



April 1, 2020

Securities & Exchange Commission
Secretariat Building, PICC Complex
Roxas Boulevard, Pasay City

Attention: Mr. Vicente Graciano P. Felizmenio, Jr.
Director – Markets and Securities Regulation Dept.

Gentlemen:

In accordance with Section 17.1(b) of the Securities Regulation Code and SRC Rule 17.1.1.1.2, we submit herewith two (2) copies of SEC Form 17-A with Management's Discussion and Analysis and accompanying audited consolidated financial statements as at and for year ended December 31, 2019 and Sustainability Report.

Very truly yours,

A handwritten signature in black ink, appearing to read 'Ma. Lourdes C. Rausa-Chan'.

MA. LOURDES C. RAUSA-CHAN
Corporate Secretary



April 1, 2020

Philippine Stock Exchange
6/F Philippine Stock Exchange Tower
28th Street corner 5th Avenue
Bonifacio Global City, Taguig City

Attention: Ms. Janet A. Encarnacion
Head, Disclosure Department

Gentlemen:

In accordance with Section 17.1(b) of the Securities Regulation Code and SRC Rule 17.3, we submit herewith a copy of SEC Form 17-A with Management's Discussion and Analysis and accompanying audited consolidated financial statements as at and for year ended December 31, 2019 and Sustainability Report.

Very truly yours,

A handwritten signature in black ink, appearing to read "MA. Lourdes C. Rausa-Chan".

MA. LOURDES C. RAUSA-CHAN
Corporate Secretary

COVER SHEET

SEC Registration Number

P	W			5	5				
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Company Name

P	L	D	T		I	N	C	.																

Principal Office (No./Street/Barangay/City/Town/Province)

R	A	M	O	N		C	O	J	U	A	N	G	C	O		B	U	I	L	D	I	N	G								
M	A	K	A	T	I		A	V	E	N	U	E		M	A	K	A	T	I		C	I	T	Y							

Form Type

I	7	-	A
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Department requiring the report

M	S	R	D
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Secondary License Type, If Applicable

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COMPANY INFORMATION

Company's Email Address

jacabal@pldt.com.ph

Company's Telephone Number/s

(632) 8816-8534

Mobile Number

No. of Stockholders

**11,588
as at February 29, 2020**

Annual Meeting
Month/Day

Every 2nd Tuesday in June

Fiscal Year
Month/Day

December 31

CONTACT PERSON INFORMATION

The designated contact person **MUST** be an Officer of the Corporation

Name of Contact Person

June Cheryl A. Cabal-Revilla

Email Address

jacabal@pldt.com.ph

Telephone Number/s

(632) 8816-8534

Mobile Number

Contact Person's Address

11/F Ramon Cojuangco Bldg. Makati Ave., Makati City

Note: In case of death, resignation or cessation of office of the officer designated as contact person, such incident shall be reported to the Commission within thirty (30) calendar days from the occurrence thereof with information and complete contact details of the new contact person designated.

SEC Number
File Number

PW-55

PLDT INC.

(Company's Full Name)

**Ramon Cojuangco Building
Makati Avenue, Makati City**

(Company's Address)

(632) 8816-8534

(Telephone Number)

December 31st
(Fiscal Year Ending)
(month & day)

SEC Form 17-A
(Annual Report)

Form Type

Not Applicable

Amendment Designation (if applicable)

December 31, 2019
Period Ended Date

Not Applicable

(Secondary License Type and File Number)

SECURITIES AND EXCHANGE COMMISSION

SEC FORM 17-A

ANNUAL REPORT PURSUANT TO SECTION 17
OF THE SECURITIES REGULATION CODE AND
SECTION 141 OF THE CORPORATION CODE
OF THE PHILIPPINES

1. For the fiscal year ended December 31, 2019
2. SEC Identification Number PW-55
3. BIR Tax Identification No. 000-488-793
4. Exact name of registrant as specified in its charter PLDT Inc.
5. Republic of the Philippines
Province, country or other jurisdiction of
incorporation or organization
6. _____ (SEC Use Only)
Industry Classification Code:
7. Ramon Cojuangco Building, Makati Avenue, Makati City
Address of principal office
- _____ 1200
Postal Code
8. (632) 8816-8534
Registrant's telephone number, including area code
9. Not Applicable
Former name, former address, and former fiscal year, if changed since last report
10. Securities registered pursuant to Sections 8 and 12 of the Securities Regulation Code, or Sections 4 and 8 of the then Revised Securities Act.

Title of Each Class

Number of Shares of Common Stock Outstanding

Common Capital Stock, Php5 par value

216,055,775 shares as at December 31, 2019

11. Are any or all of these securities listed on the Philippine Stock Exchange?

Yes []

X] No []

12. Check whether the registrant

- (a) has filed all reports required to be filed by Section 17 of the Securities Regulation Code and paragraph (2)(a) Rule 17 thereunder and Sections 26 and 141 of the Corporation Code of the Philippines during the preceding 12 months (or for such shorter period that the registrant was required to file such reports):

Yes [X] No []

- (b) has been subject to such filing requirements for the past 90 days.

Yes [X] No []

13. Aggregate market value of the voting stock held by non-affiliates:

Php116,927,968,410 (118,109,059 shares @ Php990.00 per share as at February 29, 2020)

TABLE OF CONTENTS

	Page
CERTAIN CONVENTIONS AND TERMS USED IN THIS ANNUAL REPORT	iii
PART I – BUSINESS AND GENERAL INFORMATION	1
Item 1. Description of Business	1
Overview	1
Business Groups	1
Historical Background	2
Recent Developments	2
Strategy	6
Subsidiaries	7
Products and Services, Rates and Revenues	11
Infrastructure	18
Wireless Network Infrastructure	18
Fixed Line Network Infrastructure	18
Interconnection Agreements	21
Licenses and Regulations	21
Competition	24
Competitive Strengths	25
Intellectual Property Rights	26
Major Suppliers	26
Governmental Regulations	26
Compliance with Environmental Laws	26
Employees and Labor Relations	27
Item 2. Description of Property	28
Item 3. Legal Proceedings	29
Item 4. Submission of Matters to a Vote of Security Holders	31
PART II – OPERATIONAL AND FINANCIAL INFORMATION	32
Item 5. Market for Registrant’s Common Equity and Related Stockholder Matters	32
Market Information	32
Holders	33
Dividends	33
Item 6. Management’s Discussion and Analysis of Financial Condition and Results of Operations	34
Selected Financial Data and Key Performance Indicators	34
Years ended December 31, 2019 and 2018	37
Years ended December 31, 2018 and 2017	48
Years ended December 31, 2017 and 2016	59
Plans	68
Liquidity and Capital Resources	69
Operating Activities	70
Investing Activities	70
Financing Activities	71
Contractual Obligations and Commercial Commitments	74
Quantitative and Qualitative Disclosures about Market Risks	74
Impact of Inflation and Changing Prices	74
Risks and Uncertainties	74
Item 7. Financial Statements	87
Item 8. Information on Independent Auditors and Other Related Matters	87
Independent Auditors’ Fees and Services	87
Changes in and Disagreements with Independent Auditors on Accounting and Financial Disclosure	87
PART III – CONTROL AND COMPENSATION INFORMATION	88
Item 9. Directors and Officers	88
Terms of Office	96
Family Relationships	96
Legal Proceedings	96
Audit, Governance and Nomination, Executive Compensation, Technology Strategy, and Risk Committees	98
Item 10. Executive Compensation and Stock Option Plan	102
Executive Compensation	102
Item 11. Security Ownership of Certain Beneficial Owners, Directors and Executive Officers	103
Security Ownership of Certain Record and Beneficial Owners	103
Change in Control	106
Item 12. Certain Relationships and Related Party Transactions	107
Related Party Transactions	107
PART IV – CORPORATE GOVERNANCE	107
Item 13. Corporate Governance: Structure, Policies and Processes	107
PART V – EXHIBITS AND SCHEDULES	113
Item 14. Exhibits and Reports on SEC Form 17-C	113

Exhibits	113
Reports on SEC Form 17-C (Current Reports).....	114

CERTAIN CONVENTIONS AND TERMS USED IN THIS ANNUAL REPORT

Unless the context indicates or otherwise requires, references to “we,” “us,” “our” or “PLDT Group” in this annual report mean PLDT Inc. (formerly Philippine Long Distance Telephone Company) and its consolidated subsidiaries, and references to “PLDT” mean PLDT Inc., excluding consolidated subsidiaries (see *Note 2 – Summary of Significant Accounting Policies* to the accompanying audited consolidated financial statements in Item 7. “Financial Statements” for a list of these subsidiaries, including a description of their respective principal business activities).

Unless the context indicates or otherwise requires, “Board of Directors” or the “Board” refer to the board of directors of PLDT.

Any discrepancies in any table between totals and the sums of the amounts listed are due to rounding.

In this annual report, each reference to:

- ARPU means average revenue per user;
- BIR means Bureau of Internal Revenue;
- BSP means Bangko Sentral ng Pilipinas;
- CMTS means cellular mobile telephone system;
- CPCN means Certificate of Public Convenience and Necessity;
- DFON means domestic fiber optic network;
- DICT means Department of Information and Communications Technology;
- Digitel means Digital Telecommunications Phils., Inc.;
- DMPPI means Digitel Mobile Philippines, Inc.;
- DSL means digital subscriber line;
- First Pacific means First Pacific Company Limited;
- First Pacific Group means First Pacific and its Philippine affiliates;
- FP Parties means First Pacific and certain Philippine affiliates and wholly-owned non-Philippine subsidiary;
- FTTH means Fiber-to-the-HOME;
- GAAP means Generally Accepted Accounting Principles;
- GSM means global system for mobile communications;
- HSPA means high-speed packet access;
- IGF means international gateway facility;
- IP means internet protocol;
- IT means information technology;
- LEC means local exchange carrier;
- LTE means long-term evolution;
- MVNO means mobile virtual network operations;
- NGN means Next Generation Network;
- NTC means the National Telecommunications Commission of the Philippines;
- NTT means Nippon Telegraph and Telephone Corporation;
- NTT Communications means NTT Communications Corporation, a wholly-owned subsidiary of NTT;
- NTT DOCOMO means NTT DOCOMO, Inc., a majority-owned and publicly traded subsidiary of NTT;
- PAPTELCO means Philippine Association of Private Telephone Companies, Inc.;
- PAS means Philippine Accounting Standards;
- PCEV means PLDT Communications and Energy Ventures, Inc.;
- PFRS means Philippine Financial Reporting Standards;
- PDRs means Philippine Depositary Receipts;

- Philippine SEC means the Philippine Securities and Exchange Commission;
- PLDT Beneficial Trust Fund means the beneficial trust fund created by PLDT to pay the benefits under the PLDT Employees' Benefit Plan;
- PLP means PLDT Landline Plus;
- PSE means the Philippine Stock Exchange, Inc.;
- R.A. means Republic Act of the Philippines;
- SIM means Subscriber Identification Module;
- Smart means Smart Communications, Inc.;
- U.S. SEC means the United States Securities and Exchange Commission;
- VAS means Value-Added Service;
- VoIP means Voice over Internet Protocol;
- VPN means virtual private network;
- W-CDMA means Wideband-Code Division Multiple Access;
- WiFi means a wireless network technology that uses radio waves to provide high-speed internet and network connections; and
- WiMAX means Worldwide Interoperability for Microwave Access.

PART I – BUSINESS AND GENERAL INFORMATION

Item 1. Description of Business

Overview

We are one of the leading telecommunications service providers in the fixed line, wireless and broadband markets in the Philippines, in terms of both subscribers and revenues. Through our three principal business segments (Wireless, Fixed Line and Others), we offer a large and diverse range of telecommunications services across the Philippines' most extensive fiber optic backbone and wireless and fixed line networks.

Our common shares are listed and traded on the PSE and our American Depositary Shares, or ADSs, are listed and traded on the NYSE in the United States.

We had a market capitalization of approximately Php213,463 million as at December 31, 2019, representing one of the largest market capitalizations among Philippine-listed companies. We had total revenues of Php169,187 million and net income attributable to equity holders of PLDT of Php22,521 million for the year ended December 31, 2019.

We operate under the jurisdiction of the NTC, which jurisdiction extends, among other things, to approving major services that we offer and rates that we can charge.

Our principal executive offices are located at the Ramon Cojuangco Building, Makati Avenue, Makati City, Philippines and our telephone number is +(632) 8816-8534. Our website address is www.pldt.com. The contents of our website are not a part of this annual report.

Business Groups

As at December 31, 2019, our business activities were categorized into three business units: Wireless, Fixed Line and Others.

We monitor the operating results of each business unit separately for purposes of making decisions about resource allocation and performance assessment. See Note 4 – *Operating Segment Information* to the accompanying audited consolidated financial statements in Item 7. "Financial Statements".

Wireless

Our wireless business focuses on driving the growth in our data services while managing our legacy business of voice and SMS. We generate data revenues from across all segments of our wireless business whether mobile internet using smartphones or mobile broadband using pocket WiFi and other similar devices.

We provide (a) mobile services, (b) home broadband services, and (c) MVNO and other services, through our wireless business, which contributed approximately 98% and (collectively for home broadband, and MVNO and other services) 2%, respectively, of our wireless service revenues in 2019. Mobile data usage has surged in the past several years while voice and SMS usage has slowed down. Wireless revenues contributed 57% of our consolidated revenues in 2019 as compared to 55% and 58% for the years ended December 31, 2018 and 2017, respectively. Our mobile service revenues, were 92%, 90% and 91% of our total wireless revenues for the years ended December 31, 2019, 2018 and 2017, respectively.

Our mobile services, which accounted for approximately 98% of our wireless service revenues for the year ended December 31, 2019, are provided through Smart and DMPI with 73,118,155 total subscribers as at December 31, 2019 as compared to 60,499,017 total subscribers as at December 31, 2018, and 58,293,908 total subscribers as at December 31, 2017, representing a combined market share of approximately 44%, 45% and 49% as at December 31, 2019, 2018 and 2017, respectively. Our mobile revenue market share has been eroding by the combined impact of aggressive price competition and the consequent loss of subscriber market share. This was exacerbated by a larger proportion of legacy revenues from SMS and international voice relative to competition, which offset growth in our mobile data revenues. However, mobile penetration in the Philippines increased to approximately 159% in 2019 from 133% in 2018, although the existence of subscribers owning multiple SIM cards results in this penetration rate being inflated to a certain extent.

As at December 31, 2019, approximately 97% of our mobile subscribers were prepaid service subscribers. The predominance of prepaid service reflects one of the distinguishing characteristics of the Philippine mobile market, allowing us to reduce billing and administrative costs on a per-subscriber basis, as well as to control credit risk.

LTE SIMs and smartphone ownership among our subscribers grew significantly this year, resulting in substantial increase in our mobile data revenues. As a result, our mobile internet revenues, which are part of our mobile data service revenues, increased by Php15,192 million, or 46%, to Php48,399 million in 2019 from Php33,207 million in 2018. Our mobile internet revenues contributed 91% and 87% of our mobile data service revenues in 2019 and 2018, respectively. Conversely, mobile broadband revenues, which are derived from the use of pocket WiFi and other similar mobile broadband devices, decreased by Php1,042 million, or 23%, to Php3,547 million from Php4,589 million in 2018.

Smart's and DMPI's wireless network provide extensive voice and broadband coverage in the Philippines, covering substantially all of major metropolitan areas and most of the other population centers in the Philippines. Our low spectrum band resources (700MHz, 850MHz and 900MHz) are primarily used to provide coverage whilst higher spectrum bands (1800MHz, 2100MHz, 2300MHz and 2600MHz) provide extended coverage and additional capacity. Our communications network supports HSPA+ (for 3G) and LTE-Advanced to provide improved broadband experience for our customers.

Fixed Line

We are the leading provider of fixed line telecommunications services throughout the Philippines, servicing retail, corporate and SME clients. Our fixed line business group offers voice, data and miscellaneous services. We had 2,765,209 fixed line subscribers as at December 31, 2019, an increase of 54,237, or 2%, from 2,710,972 fixed line subscribers as at December 31, 2018, while our fixed line and fixed wireless broadband subscribers increased by 135,921, or 7%, to 2,161,484 as at December 31, 2019 from 2,025,563 as at December 31, 2018. Revenues from our fixed line business were 53%, 52% and 49% of our consolidated revenues for the years ended December 31, 2019, 2018 and 2017, respectively. International voice revenues have been declining largely due to a drop in call volumes as a result of the availability of alternative calling options and OTT services. An increase in our data service revenues in recent years has mitigated such decline to a certain extent. Recognizing the growth potential of data services, we have put considerable emphasis on the development of new data-capable and IP-based networks.

Our 16,700-kilometer long DFON is complemented by an extensive digital microwave backbone network operated by Smart. This microwave network complements the higher capacity fiber optic networks and is vital in delivering reliable services to areas not covered by fixed terrestrial transport network. Our fixed line network reaches all of the major cities and municipalities in the Philippines, with a concentration in the Metropolitan Manila area. Our network offers the country's most extensive connections to international networks through two international gateway switching exchanges and various regional submarine cable systems in which we have economic interests.

See Item 1. "Description of Business – Infrastructure – Fixed Line Network Infrastructure" for further information on our fixed line infrastructure.

Others

Our other business in 2019 consisted primarily of PCEV, an investment holding company, which owns 48.74% equity interest in VIH; PLDT Global Investments Corporation, or PGIC, which owns 18.32% economic interest in Beta; PLDT Digital Investments Pte. Ltd., or PLDT Digital, an investment holding company, which owns a 1.3% equity interest in Rocket Internet, through its wholly-owned subsidiary, PLDT Online; and PLDT Global Holdings, Inc., or PGIH, an investment holding company, which owns 45.73% equity interest in Multisys Technologies Corporation, or Multisys, in December 3, 2018.

Historical Background

PLDT was incorporated under the old Corporation Law of the Philippines (Act 1459, as amended) on November 28, 1928 as Philippine Long Distance Telephone Company, following the merger of four telephone companies under common U.S. ownership. Under its Amended Articles of Incorporation, PLDT's corporate term is currently limited through 2028.

PLDT's original franchise was granted in 1928 and was last amended in 1991, extending its effectiveness until 2028 and broadening PLDT's franchise to permit PLDT to provide virtually every type of telecommunications service. PLDT's franchise covers the business of providing basic and enhanced telecommunications services in and between the provinces, cities and municipalities in the Philippines and between the Philippines and other countries and territories including mobile, wired or wireless telecommunications systems; fiber optics; multi-channel transmission distribution systems and their VAS (including but not limited to transmission of voice, data, facsimile, control signals, audio and video); information services bureau and all other telecommunications systems technologies presently available or that can be made available through technical advances or innovations in the future. Our subsidiaries, including Smart and DMPI, also maintain their own franchises with a different range of services and periods of legal effectiveness for their licenses.

Recent Developments

Measures We Have Taken in Light of the Coronavirus Disease 2019, or COVID-19 Outbreak

In light of the ongoing outbreak of the COVID-19 pandemic, we have conducted an analysis of PLDT's risks, and have implemented the following measures to protect our employees, customers and trade partners.

People

On March 9, 2020, we instituted a travel ban to high-risk countries on our employees, and executed a partial lockdown with access to our corporate premises limited only to employees. On March 12, 2020, we imposed a ban on all foreign travel.

To minimize exposure of our employees to the COVID-19 virus as well as to prevent its further spreading, we have implemented a Work from Home policy, which came into effect on March 11, 2020. Certain of our employees are allowed to work from home until the spread of the virus is brought under control in the Philippines. To ensure minimal disruption to our operations, we have taken steps to ensure that employees working from home are properly equipped with the appropriate digital equipment, including internet connection. For the employees that continue to work on-site, we have taken steps to try and minimize their risk of exposure to the COVID-19 virus.

We have issued instructions and guidelines to our trade partners on how to best deal with the COVID-19 outbreak.

Network and IT

As more and more people in the Philippines choose to work from home, we have been experiencing a significant increase in the usage of our internet services. Since the beginning of the COVID-19 outbreak in the Philippines, we have been closely monitoring our network traffic for usage spikes and possible congestion. As of the date of this annual report, we have sufficient capacity to serve the increased needs of all our subscribers. We are equipped with the technology to manage our network infrastructure remotely, which helps us respond to changes in internet traffic more efficiently. We have taken steps to enhance security for premises in which our critical network and IT systems are kept. We have also moved essential spare parts and supplies from our remote warehouses to Metropolitan Manila to help us undertake maintenance and repairs more efficiently.

Customer Service

To provide customers with connectivity when they need it the most, we are: providing zero-rated access to certain government agencies and emergency hotlines, boosting minimum speeds for our Home subscribers, increasing data allocations for prepaid and Enterprise customers, equipping our Enterprise customers with telecommuting solutions, granting a 30-day payment extension period to our postpaid customers, and for our overseas Filipino workers, or OFWs, extending duration of free calls through our Free Bee app.

In cases where our service teams need to enter customer's homes or business premises, we have equipped them with protective gear such as face masks and gloves. Members of our service teams have also been trained in the proper health protocols for before, during, and after site visits, including maintaining proper social distances with customers at all times.

We have taken the following precautionary measure at our stores:

- provided 70% alcohol at all counters for use by employees and customers;
- provided Lysol wipes and alcohol pads to sanitize work area after each transaction;
- provided Lysol spray to sanitize the air and incoming deliveries;
- provided handheld infrared thermometers for employees to take temperatures of all visitors to our stores, including customers and third-party personnel; and
- provided facial masks for customer-facing employees.

PLDT Group's Cyber Security Strategy

In 2019, the PLDT Group significantly increased investments in cyber security measures. The PLDT Group's cyber security strategy was to focus efforts and resources in protecting our most crucial digital information and cyber assets. We achieved the following in our continued efforts to optimize our cyber security operations framework:

- We have deployed an endpoint security to all corporate workstations to detect, prevent, and respond to attacks. This capability helped to detect more than 1,500 malware and unauthorized software on endpoints. The endpoint security solution also enables the operations team to quickly respond to and clean-up endpoints by blocking, remotely deleting and/or putting into quarantine malicious file detections. These clean-up efforts were executed as part of the Company's response and remediation process;
- We now have a fully operational 24x7 Cyber Security Incident and Response Team, or CSIRT, which enabled the detection and response to security incidents within less than one minute, on average. The group has also recently secured membership under the Forum of Incident Response and Security Teams, or FIRST. FIRST is a globally recognized leader in cyber security incident response. Having secured membership of FIRST provides the Company access to best practices and tools, and trusted communication with other member incident response teams;
- We continue to prevent attacks on our corporate web sites through the use of our web application firewall;
- We automated the review of cyber security protection for applications, databases and operating system access and entitlements. This capability supports both internal and external annual SOX-audit activities;

- We have deployed a secure DNS solution that blocked billions of attempts to access phishing, scamming and malware-distribution sites. This solution continues to benefit both our corporate employees as well as our customers;
- We have established 150 million indicators of compromise in our threat intelligent database, which is now being used for real-time threat correlation;
- We continued to improve our anti-Distributed Denial of Service, or DDoS, strategy to cover all layers of defenses (e.g. external, edge, internal, and people/process) in response to a significant increase in the number and frequency of DDoS attacks in the second half of 2019, as compared to the first half of the year;
- We continued our efforts to expand our security visibility by enrolling active IP-based assets to our Security Operations Center;
- We have established corporate governance processes around the procurement and deployment of Internet of Things, or IoT, and customer-premises equipment; and
- We also conduct weekly awareness campaigns for our employees. We continue to see persistent phishing campaigns targeting our customers, the majority of which are attempts to gain Microsoft Office 365 credentials. We perform periodic phishing simulations to assess the awareness of our employees on social engineering schemes. Employees who fall victim to the phishing test were given cyber security awareness training. These periodic exercises resulted in a heightened awareness among employees' of phishing and scamming tactics. Bottom-up engagement of our employees is one of our key success factors for an effective cybersecurity program execution.

Expiration of SubicTel's Franchise

Effective January 23, 2020, PLDT Subic Telecom, Inc., or SubicTel, ceased to operate as a telecommunications service provider, pursuant to the expiration of its franchise issued by the Subic Bay Metropolitan Authority, or SBMA. In order to facilitate continued customer service, arrangements have been made between SubicTel and PLDT where PLDT would make its services available to the affected SubicTel subscribers on voluntary basis. The NTC interposed no objection to the transfer of SubicTel's subscribers to PLDT, subject to certain conditions. Likewise, the SBMA Board approved the issuance of Certificate of Registration to PLDT to operate within SBMA. On September 24, 2019, the PLDT Board of Directors approved the acquisition of the assets and subscribers of SubicTel for a total consideration of Php675 million. PLDT has committed to provide financial support to discharge its liabilities as the need arises. This transaction was eliminated in our consolidated financial statements.

Expiration of Maratel's Legislative Franchise

Effective April 2020, PLDT-Maratel, Inc., or Maratel, will cease to operate as a telecommunications service provider, following the expiration of its legislative franchise, R.A. 7970. In order to ensure continued customer service, Maratel will assign its assets and subscribers, or the "Maratel Subscribers", to PLDT who undertakes to offer its services to Maratel Subscribers subject to conditions as may be imposed by the NTC. The NTC, has yet to respond to Maratel's notice to transfer its subscribers to PLDT. On November 7, 2019, the PLDT Board of Directors approved the acquisition of the assets and Maratel Subscribers for a total consideration of Php442 million. PLDT has committed to provide financial support to discharge its liabilities as the need arises. This transaction was eliminated in our consolidated financial statements.

Smart, Globe and Dito Joint Venture on Mobile Number Portability

In 2019, Smart along with Globe and Dito Telecommunity, Inc. entered into an agreement to form a joint venture that will address the requirements of R.A. No. 11202, or the Mobile Number Portability, or MNP, Act. The newly enacted law allows mobile phone users to switch networks or change their subscription from prepaid to postpaid or vice versa, without changing their mobile numbers.

The joint venture company, Telecommunications Connectivity Inc., or TCI, was incorporated in the Philippines on December 26, 2019 and registered with the Philippine SEC on January 17, 2020. The primary purpose of the joint venture is to serve as a clearing house for MNP. TCI will ensure smooth implementation of mobile number porting services. Smart subscribed to Php10 million representing 33.3% equity interest in TCI, which is equivalent to 10 million shares at a subscription price of Php1.00 per share.

Consent Solicitation Exercise of PLDT

On October 11, 2019, PLDT announced its undertaking of a consent solicitation exercise relating to the 5.2250% 7-Year Fixed Rate Bonds due 2021 and 5.2813% 10-Year Fixed Rate Bonds due 2024, to amend PLDT's maximum stand-alone Total Debt to EBITDA Ratio stipulated in the Trust Indenture from 3.0:1 to 4.0:1. The proposed amendment seeks to provide the Company with greater flexibility to support, if necessary, higher levels of capital expenditures and general corporate requirements. Moreover, it will align the covenant ratio of PLDT's outstanding debt capital market issuances with that of the existing bilateral facilities of both PLDT and Smart.

On October 30, 2019, PLDT announced the early closing of the consent solicitation exercise from its original schedule of November 15, 2019 when the Company received the required consents to effect the proposed amendment. The new debt covenants is effective as at December 31, 2019.

Issuance of Smart Perpetual Notes

On September 19, 2019, Smart issued Php4,700 million perpetual notes to DMPI under the Notes Facility Agreement dated September 16, 2019.

Proceeds from the issuance of these notes are intended to finance capital expenditures. The notes have no fixed redemption dates, however, Smart may, at its sole option, redeem the notes. The notes are subordinated to and rank junior to all senior loans of Smart. This transaction was eliminated in our consolidated financial statements.

Expiration of Philcom's Legislative Franchise

Effective September 15, 2019, PLDT-Philcom Inc., or Philcom, ceased to operate as a telecommunications service provider, pursuant to the expiration of its legislative franchise, R.A. 7783. In order to facilitate continued customer service, arrangements have been made between Philcom and PLDT where PLDT would make its services available to the affected Philcom subscribers on voluntary basis. The NTC interposed no objection to the transfer of Philcom's subscribers to PLDT, subject to certain conditions. Consequently, Philcom and PLDT executed a Deed of Assignment on August 15, 2019 and September 13, 2019 wherein all property and equipment of Philcom, accounts receivable, inventories and subscribers were transferred to PLDT for a total consideration of Php1,760 million and Php319 million, respectively, after complying with the conditions imposed by NTC. PLDT has committed to provide financial support to discharge its liabilities as the need arises. This transaction was eliminated in our consolidated financial statements.

Decrease in PCEV's Par Value of Common Stock and Authorized Common Capital Stock

On May 10, 2019 and June 25, 2019, PCEV's Board of Directors and stockholders approved the decrease in PCEV's par value of common stock, from Php21,000 to Php8,700, and authorized common capital stock, from Php12,060 million to Php4,996 million.

The decrease in PCEV's par value of common stock and authorized capital stock was approved by the Philippine SEC on December 19, 2019. Consequently, the partial return of capital representing their proportionate share in the decrease in par value amounting to Php6,825 million and Php4 million were paid to Smart and PCEV's minority shareholders, respectively.

Sale of Rocket Internet Shares

On April 16, 2018, Rocket Internet announced the buyback of up to 15 million Rocket Internet shares through a public share purchase offer, or the Offer, against payment of an offer price in the amount of €24 per share. PLDT Online Investments Pte. Ltd., or PLDT Online, committed to accept the Offer of Rocket Internet for at least 6.8 million shares, or approximately 67.4% of the total number of shares directly held by PLDT Online.

On May 4, 2018, Rocket Internet accepted the tender of PLDT Online of 7 million shares and paid the total consideration of €163 million, or Php10,059 million, which was settled on May 9, 2018, reducing the equity ownership in Rocket Internet from 6.1% to 2.0%.

On May 23, 2018, Rocket Internet redeemed 10.8 million shares, reducing its share capital to €154 million. As a result of the redemption of shares, PLDT Online's equity ownership in Rocket Internet increased from 2.0% to 2.1%.

On various dates in the third quarter of 2018, PLDT Online sold 0.7 million Rocket Internet shares for an aggregate amount of €22 million, or Php1,346 million, reducing the equity ownership in Rocket Internet from 2.1% to 1.7%.

On December 6, 2018, Rocket Internet redeemed 1.9 million shares reducing its share capital to €153 million. PLDT Online's equity ownership in Rocket Internet remained at 1.7%.

On various dates in 2019, PLDT Online sold 0.7 million Rocket Internet shares for an aggregate amount of €18 million, or Php1,021 million, reducing equity ownership in Rocket Internet from 1.7% to 1.3%.

On October 9, 2019, Rocket Internet redeemed 1.7 million shares reducing its share capital to €151 million. PLDT Online's equity ownership in Rocket Internet remained at 1.3%.

On January 30, 2020, Rocket Internet redeemed 13.5 million shares, reducing its share capital to €137 million. As a result of the redemption of shares, PLDT Online's equity ownership in Rocket Internet increased from 1.3% to 1.4%.

Expiration of Digitel's Legislative Franchise

On February 17, 1994, the Philippine Congress granted a legislative franchise to Digitel under R.A. No. 7678 to install, operate and maintain telecommunications systems throughout the Philippines for public domestic and international telecommunications, and for other purposes. R.A. No. 7678 expired on February 17, 2019 and was not renewed due to

the migration of all of its subscribers to PLDT in January 2019. Our management is currently assessing the business direction of Digital moving forward. PLDT has committed to provide financial support to discharge its liabilities and as the need arises.

Investment of PGIH in Multisys

On November 8, 2018, the PLDT Board of Directors approved the investment of Php2,150 million in Multisys for a 45.73% equity interest through its wholly-owned subsidiary, PGIH. Multisys is a Philippine software development and IT solutions provider engaged in designing, developing, implementing business system solutions and services covering courseware, webpage development and designing user-defined system programming. PGIH's investment involves the acquisition of new and existing shares.

On December 3, 2018, PGIH completed the closing of its investment in Multisys. Out of the Php550 million total consideration for the acquisition of existing shares, PGIH paid Php523 million to the owners of Multisys. On June 3, 2019, the balance of the acquisition consideration amounting to Php27 million was fully paid. Further, PGIH invested Php800 million into Multisys as a deposit for future stock subscription pending the approval by the Philippine SEC of the capital increase of Multisys. On February 1, 2019, the Philippine SEC approved the capital increase of Multisys.

The carrying value of the investment in Multisys amounted to Php2,538 million and Php2,388 million, including subscription payable of Php800 million and contingent consideration of Php230 million as at December 31, 2019 and 2018, respectively.

Investment of PLDT Capital in Phunware

On February 27, 2018, Phunware entered into a definitive Agreement and Plan of Merger, or Merger Agreement, with Stellar Acquisition III, Inc., or Stellar, relating to a business combination transaction for an enterprise value of US\$301 million, on a cash-free, debt-free basis. Pursuant to the Merger Agreement, the holders of Phunware common stock will be entitled to the right to receive the applicable portion of the merger consideration in the form of Stellar common shares, which are listed on the Nasdaq Stock Market. As a result, the holders of Phunware preferred stock have requested the automatic conversion of all outstanding preferred shares into common shares effective as of immediately prior to the closing of the transaction on a conversion ratio of one common share per one preferred share. In addition to the right to receive Stellar common shares, each holder of Phunware stock is entitled to elect to receive its pro rata share of warrants to purchase Stellar common shares that are held by the affiliate companies of Stellar's co-Chief Executive Officers, or Stellar's Sponsors.

On November 28, 2018, PLDT Capital elected to receive its full pro rata share of the warrants to purchase Stellar common shares held by Stellar's Sponsors.

On December 26, 2018, Phunware announced the consummation of its business combination with Stellar. Stellar, the new Phunware holding company, changed its corporate name to "Phunware, Inc.," or PHUN, and Phunware changed its corporate name to "Phunware OpCo, Inc." Upon closing, PLDT Capital received the PHUN common shares equivalent to its portion of the merger consideration and its full pro rata share of warrants to purchase PHUN common shares.

On March 15, 2019, PLDT Capital exercised its warrants to purchase PHUN common shares for a total consideration of US\$1.6 million.

Attys. Baquiran and Tecson vs. NTC, et al.

This is a Petition for Mandamus filed on October 23, 2018 by Attys. Joseph Lemuel Baligod Baquiran and Ferdinand C. Tecson against the Respondents NTC, the PCC, Liberty, BellTel, Globe, PLDT and Smart. Briefly, the case involves the 700 MHz frequency, among others, or Subject Frequencies, that was originally assigned to Liberty and which eventually became subject of the Co-Use Agreement between Globe, on the one hand, and PLDT and Smart, on the other.

For updates relating to the above discussion, please see *Note 27 – Provisions and Contingencies* to the accompanying audited consolidated financial statements in Item 7. "Financial Statements".

For updates on matters relating to the (1) Department of Labor and Employment, or DOLE, Compliance Order to PLDT, see *Note 27 – Provisions and Contingencies*; (2) Petition against the Philippine Competition Commission, or PCC, see *Note 11 – Investment in Associates and Joint Ventures*; and (3) Wilson Gamboa and Jose M. Roy III Petition, see *Note 27 – Provisions and Contingencies*, to the accompanying audited consolidated financial statements in Item 7. "Financial Statements".

Strategy

The key elements of our business strategy are:

- *Build on our strong positions in the fixed line and wireless businesses.* We plan to capitalize on our having the strongest integrated fixed and wireless network in the Philippines which will allow us to continue building on our position as one of the leading fixed line and wireless service providers in the Philippines by continuing to focus on

providing superior customer experience, especially in data, which includes the launch of new products and services to increase subscriber value and utilization of our existing facilities and equipment at reduced cost, and to increase our subscribers' use of our network for both voice and data, as well as their reliance on our services.

- *Capitalize on our strength as an integrated provider of telecommunications services.* We offer the broadest range of telecommunications services among all operators in the Philippines. We plan to capitalize on this position to maximize revenue opportunities by cross-selling our products and services, and by developing convergent products that feature the combined benefits of voice and data, fixed line, wireless, and other products and services, including media content, utilizing our network and business platforms.
- *Strengthen our leading position in the data and broadband market.* Leveraging on the strengths of our fixed line and wireless businesses, we are committed to further develop our fastest growing business, particularly mobile internet. Consistent with our strategy of introducing innovative products and services using advanced technology, we continue to launch various products and services in the data and broadband market that deliver quality of experience according to different market needs, including data centers and cloud-related services. We will also accelerate the deployment of new base stations to boost network quality and coverage, and accommodate technology bands under the co-use arrangements we entered into with BellTel, one of VTI's subsidiaries.
- *Provide the customer a superior data experience.* We are in the process of executing our digital transformation strategy through our wireless business focusing on: (i) investing in network infrastructure to improve 3G and 4G coverage and capacity, as well as network resilience; (ii) upgrading service development platforms to improve customers' ease-of-use, billing systems, customer interface; and (iii) expanding our content portfolio to include video/streaming/entertainment, music, shopping, and games, among others.
- *Maintain a strong financial position and improve shareholder returns.* In 2019, we paid out dividends approximately 60% of our telco core income. We plan to continue utilizing our free cash flows to invest in our network and for the payment of cash dividends to common shareholders. As part of our growth strategy, we have made and may continue to make acquisitions and investments in companies or businesses. We will continue to consider value-accretive investments in telecommunications as well as telecommunications-related businesses.

Subsidiaries

As part of our competitive and overall development strategy, we have made strategic acquisitions and investments to further enhance our ability to provide not only basic telephony but also a wide range of value-added and enhanced services, as well as advanced and bundled services.

Wireless

Smart

Smart was incorporated in the Philippines in 1991 and given provisional authorities to install, operate and maintain a CMTS using the digital GSM and analog enhanced total access communications system (ETACS) technologies, an IGF, an inter-exchange carrier service, and an advanced messaging and paging service. In March 2000, PLDT acquired Smart in an all-stock transaction to further strengthen the PLDT Group's market leadership in the telecommunications sector. Combined with PLDT's existing fixed line business, the investment resulted to revenue-generating enhancements as well as cost efficiencies for the PLDT Group.

The following are the major subsidiaries of Smart:

Smart Broadband, Inc. or SBI

SBI was incorporated and registered with the Philippine SEC on July 11, 1996 and was granted a 25-year legislative franchise under R.A. No. 8337 to construct, install, establish, maintain, lease and operate wire and/or wireless telecommunications systems throughout the Philippines.

PLDT Communications and Energy Ventures, Inc., or PCEV (formerly Pilipino Telephone Corporation)

PCEV was incorporated on July 18, 1968. Until 1991, PCEV's sole business was providing fixed line telecommunications services in eight cities and municipalities in the Philippines. In April 2000, PCEV launched a digital prepaid mobile service, under the TNT brand, using the GSM platform of Smart. PCEV transferred its fixed line business to PLDT in June 2008 and its GSM business to Smart in August 2009. Subsequently, PCEV acquired Meralco shares, which it transferred to Beacon in 2010 and 2011. In May 2016 and June 2017, PCEV entered into Share Purchase Agreements with MPIC to sell its equity interest in Beacon. After the final divestment of Beacon shares to MPIC, PCEV ceased to have any direct interest in Beacon and any indirect interest in Meralco and Global Power. In April 2018, PCEV acquired 100% of Voyager Innovations Holdings, Pte. Ltd. (VIH) but subsequently lost control in November 2018. PCEV has 48.74% ownership in VIH as at December 31, 2019.

I-Contacts Corporation, or ICON

ICON was incorporated in the Philippines and registered with the Philippine SEC on March 5, 2001 to establish, develop, maintain, and operate an operations support servicing business, which is defined as the provision of customer relationship and business operations support, and any and all allied or related businesses.

DMPI

On September 18, 2001, Digitel established its wholly-owned subsidiary, DMPI, to provide wireless telecommunications services in the country. It offered GSM technology, provisioning voice services (local, national, international calling), messaging services (short text or multi-messaging), outbound and inbound international roaming, and VAS. DMPI has operated its wireless services under the *Sun* mobile brand since March 29, 2003. In relation to our acquisition of the Digitel Group, we agreed with the NTC that we will maintain *Sun* as a separate brand which will continue to offer unlimited services.

Fixed Line

Digitel

Digitel was established on August 31, 1987 and is engaged to provide wireline services in the country.

On March 29, 2011, the Board of Directors of PLDT and JG Summit Holdings, Inc., or JGSHI, approved the acquisition by PLDT of JGSHI's and certain other seller-parties' ownership interest in Digitel. Digitel operates a fixed line business in certain parts of the country and is the 100% owner of DMPI, which is engaged in the mobile telecommunications business. On February 17, 2019, Digitel's legislative franchise, R.A. 7678, expired and was not renewed.

PLDT Clark Telecom, Inc., or ClarkTel

ClarkTel was incorporated on January 28, 1997. It was previously a joint venture between PLDT, owning 60%, and Clark Development Corporation, or CDC, holding the remaining 40%. In August 1999, CDC ceded its 40% ownership interest in ClarkTel to PLDT, thus, making ClarkTel a wholly-owned subsidiary of PLDT. ClarkTel provides basic and enhanced telecommunications services within the Clark Special Economic Zone, or CSEZ, in Clark Field, Pampanga, and between the CSEZ and other cities and municipalities in the country as well as other countries and territories worldwide.

PLDT-Maratel, Inc., or Maratel

In June 2001, PLDT acquired 2,439,060 common shares of Maratel representing 92.3% of Maratel's issued and outstanding common stock, for a total consideration of Php451.3 million. In 2003, PLDT acquired an additional 134,237 common shares of Maratel for a consideration of Php1.3 million, thereby increasing PLDT's ownership interest in Maratel to 97.5%. Additional shares acquisition in 2006, 2007 and 2013 further increased PLDT's ownership in Maratel to 98.02%. Maratel, incorporated on August 10, 1951, is a franchised operator of telecommunications services in the province of Lanao del Norte and the cities of Iligan and Marawi. The acquisition of a controlling interest in Maratel has improved PLDT's existing coverage in Mindanao and strengthened its competitive position in the southern part of the country. Effective April 2020, Maratel will cease to operate as a telecommunications service provider, following the expiration of its legislative franchise, R.A. 7970.

PLDT Subic Telecom, Inc., or SubicTel

In June 1994, PLDT entered into a joint venture agreement with AT&T and the Subic Bay Metropolitan Authority, or SBMA, to form SubicTel. In November 1999, PLDT acquired SBMA's 20% ownership interest in SubicTel for a

purchase price of Php180 million, increasing PLDT's stake in SubicTel from 40% to 60%. On February 16, 2001, PLDT also acquired AT&T's 40% stake in SubicTel for a consideration of US\$8 million. Consequently, SubicTel became a wholly-owned subsidiary of PLDT. SubicTel was incorporated on September 28, 1994 primarily to establish, operate and maintain basic and enhanced telecommunication facilities, networks and other related facilities in the Subic Special Economic and Freeport Zone ("Zone"), and between the Zone and other parts of the Philippines and other countries. Effective January 23, 2020, PLDT Subic Telecom, Inc., or SubicTel, ceased to operate as a telecommunications service provider, pursuant to the expiration of its franchise issued by the Subic Bay Metropolitan Authority, or SBMA.

Bonifacio Communications Corporation, or BCC

In 2002 and 2003, PLDT entered into a separate Deed of Assignment of Subscription with Smart and Fort Bonifacio Development Corporation, or FBDC, respectively, where Smart and FBDC assigned, transferred and conveyed in favor of PLDT their total subscription to 750,000 common shares and 750,000 preferred shares of BCC and all their interest and rights therein for a total consideration of Php93 million. The assignment included a subscription payable of Php68 million. The shares represent 75% of the subscribed capital stock of BCC.

BCC was incorporated primarily to own, construct, establish, maintain, lease and otherwise operate, to the extent allowed by law, communication infrastructure and to provide related services, including but not limited to, VAS, within the Fort Bonifacio Global City and Villamor Air Base.

PLDT Global Corporation, or PLDT Global

PLDT Global, a wholly-owned subsidiary, was incorporated on December 15, 2000 in the British Virgin Islands to position PLDT as a full service global telecommunications player through a strategy of establishing presence in key countries with substantial Overseas Filipino Professionals or Workers. The following are the subsidiaries of PLDT Global:

- *PLDT (HK) Limited* is a Unified Carrier License and Service-Based Operator Licence holder that offers wholesale termination, enterprise solutions and retail business. PLDT (HK) Limited has seven (7) wholly-owned subsidiaries, *PLDT 1528 Limited*, *PLDT Japan GK*, *PLDT Global (HK)Limited*, *PLDT Macau Limited*, *PLDT (UK) Investment Company Limited*, *London-Manila Express Limited* and *London Manila Express Cargo Limited*. *PLDT 1528 Limited* conducts various mobile telecommunications and other related services. On the other hand, it has an existing Money Service Operator License to provide remittance business in Hong Kong. *PLDT Japan GK* offers mobile data services and other telecommunication-related businesses in Japan. *PLDT Global (HK)Limited (formerly Pinoy Remit Limited)* is currently being targeted to replace *PLDT 1528 Limited* in offering telecommunications and Ecommerce related products & services in Hong Kong, while *PLDT Macau Limited* was set up for expansion of its Branded Partnership business in Macau. Lastly, *PLDT (UK) Investment Company Limited* is a holding company which acquired *London-Manila Express Limited* (a licensed remittance business company in UK) and *London Manila Express Cargo Limited* in 2017;
- *PLDT (SG) Pte Ltd.* is a holding company and provides enterprise solutions and general wholesale trade of telecommunication products & services in Singapore. Its wholly-owned subsidiary, *PLDT (SG) Retail Service Pte Ltd.*, conducts telecommunication and other related services in Singapore;
- *PLDT (US) LTD* is a licensed international common carrier that provides a range of Private Line solutions and related services to its enterprise customers. Its wholly-owned subsidiary, *PLDT (US) Mobility, LLC* conducts marketing and distribution of international telecom and related products in the USA;
- *PLDT Online, Inc.* is incorporated in the British Virgin Islands which conducts wholesale and retail of telecommunication products and services through an online portal;
- *PLDT (UK) Limited* is a company incorporated under the laws of the United Kingdom which conducts telecommunication and other related activities;
- *PLDT Malaysia* is currently in dormant and in process of dissolving the partnership with Celcom Axiata Berhad which owns 49% shareholding of the company;
- *PLDT Global Malaysia Sdn. Bhd.* is targeted to provide retail services on card distribution, VOIP service, online shopping and the like; to engage in enterprise business on international leased lines, data centers and cloud solutions, as well as bills payment services (e-wallet). This company effectively replaced *PLDT Malaysia Sdn. Bhd.* when it was incorporated in 2018; and
- *PLDT Global Investments Corporation* was incorporated in the British Virgin Islands and specializes as an investment holding company.

PLDT-Philcom, Inc., or Philcom

On January 2, 2009, PLDT signed a Debt Assignment Agreement with Premier Global Resources Corporation, or PGR, wherein PGR sold to PLDT, for a total consideration of Php340 million, all of the outstanding obligations of Philcom to suppliers, banks and other financial institutions, or the Philcom Lenders, which PGR had acquired from the Philcom Lenders.

On January 3, 2009, PLDT signed a Share Assignment Agreement with Philippine Global Communications, Inc. wherein the latter sold, transferred and conveyed in favor of PLDT its rights, title and interest in and to all of the outstanding shares of common stock in Philcom for a total consideration of Php75 million. The parties have filed the necessary application/petition for the approval of this transaction by the NTC.

The acquisition of Philcom allowed the PLDT Group to broaden its presence in Mindanao, where it already has operations carried out under Maratel. This expanded presence benefitted not only the existing subscribers in the area, but also provided the communities in the area with an opportunity to access improved telecommunications facilities.

Effective September 15, 2019, Philcom ceased to operate as a telecommunications service provider, pursuant to the expiration of its legislative franchise, R.A. 7783.

ePLDT, Inc., or ePLDT

ePLDT is engaged in information and communications technology businesses, focusing on enabling infrastructure and services for internet applications, IP-based solutions and multimedia content delivery.

ePLDT operates internet data centers under the brand name *VITRO*TM. Granted by the Philippine Board of Investments pioneer status as an Internet Data Center, *VITRO*TM provides colocation and related connectivity services, managed server hosting, disaster recovery and business continuity services, cyber security services, cloud services and a full suite of managed IT solutions.

ePLDT also currently holds equity interests in the following entities:

- a 100% interest in IP Converge Data Services, Inc., or IPCDSI, which owns and operates three internet data centers in the country and provides enterprises with managed data services and cloud-based business solutions across a wide range of industries including IT solutions providers, gaming companies, e-learning and healthcare. IPCDSI is the country's pioneer cloud services provider, being the first Salesforce partner and also one of the country's first Google Cloud partners providing consulting services and SaaS (software-as-a-service) licenses to businesses. In addition, IPC is also the country's first DDoS Mitigation service provider ensuring web security across e-commerce enterprises, as well as the first infrastructure-as-a-service provider with a locally hosted cloud infrastructure; and
- a 100% equity interest in ABM Global Solutions, Inc., or AGS, an e-procurement joint venture established together with six of the Philippines' leading conglomerates. AGS is also engaged in license sale, licenses maintenance, consulting service, application support, BPO agent revenue, eProcurement services, eSourcing services and training.

On August 24, 2011, ePLDT acquired an additional 17% of the equity interest of ePDS from Quantum Solutions International Pte. Ltd., resulting in the increase of ePLDT's equity interest in ePDS from 50% to 67%.

In April 2012, the Board of Directors of mySecureSign, Inc., or MSSSI, and ePLDT approved the plan of merger between MSSSI and ePLDT, with ePLDT as the surviving company, in order to realize economies in operation and achieve greater efficiency in the management of their business.

On October 12, 2012, ePLDT, IP Ventures, Inc. and IPVG Employees, Inc., entered into a Sale and Purchase Agreement, or SPA, whereby ePLDT acquired 100% of the issued and outstanding capital stock of IPCDSI and advances to IPCDSI for a total adjusted purchase price of Php693 million.

On October 30, 2013, Curo Teknika was incorporated to take-on the Outsourced IT Services as a result of the spin-off of iPlus.

On April 8, 2014, ePLDT sold its 100% stake in iPlus through management buyout for a total consideration of Php42 million.

On March 5, 2018 and August 7, 2018, ePLDT made additional cash infusion to ePDS amounting to Php134 million and Php66 million, respectively, thereby increasing ePLDT's equity interest in ePDS to 95%.

On November 7, 2019, ePLDT acquired the 5% minority interest in ePDS for a consideration of Php20 million, thereby, making ePDS a fully-owned subsidiary of ePLDT.

Others

Below are our other business' various development activities:

- Investment of PGIH in Multisys
- Sale of Rocket Internet shares
- Investment of PLDT Capital in Phunware

See Note 2 – Summary of Significant Accounting Policies, Note 3 – Management's Use of Accounting Judgments, Estimates and Assumptions, Note 12 – Financial Assets at FVPL, Note 25 – Related Party Transactions and Note 28 – Financial Assets and Liabilities to the accompanying audited consolidated financial statements in Item 7. "Financial Statements" for further discussion of our subsidiaries.

Products and Services, Rates and Revenues

Wireless

We provide mobile, home broadband, and MVNO and other services, through our Wireless business segment.

The following table summarizes key measures of our wireless business as at and for the years ended December 31, 2019, 2018 and 2017:

	December 31,		
	2019	2018	2017
Systemwide mobile subscriber base	73,118,155	60,499,017	58,293,908
Prepaid	70,721,789	58,178,978	55,776,646
Postpaid	2,396,366	2,320,039	2,517,262
Fixed Wireless Broadband subscriber base ⁽¹⁾	6,098	11,533	237,354
Growth rate of mobile subscribers			
Prepaid	22%	4%	(7%)
Postpaid	3%	(8%)	(10%)
Growth rate of Fixed Wireless Broadband subscribers	(47%)	(95%)	(12%)
Wireless service revenues (in millions)	Php90,661	Php83,001	Php87,412
Mobile	88,865	81,096	84,439
Home Broadband	85	155	2,556
MVNO and others	1,711	1,750	417
Percentage to wireless service revenues			
Mobile	98%	98%	97%
Home Broadband	–	–	3%
MVNO and others	2%	2%	–
Percentage of wireless service revenues to total service revenues	56%	54%	58%

⁽¹⁾ Home Ultera and WiMAX businesses were transferred to PLDT beginning 2018.

Mobile Services

We offer mobile communications services all over the country under the brand names Smart, TNT and Sun to focus on the needs of specific segments of the market. With a continuous and in-depth consumer understanding program, each of our brands commits to provide relevant products that will cater to the communications, entertainment and services requirements of our target market segments.

We consider the following as the key metrics for our growth in 2019: (i) providing customers with the nation's fastest mobile network and 4G mobile network with the widest coverage; (ii) promoting data and content-led products under the Giga brand (iii) promoting E-Sports events; (iv) making value-added services easier to access through the USSD Menu Browser, or UMB platform; and (v) continuous promotion of our LTE services.

Providing Customers with the Nation's Fastest Mobile Network and 4G Mobile Network with the Widest Coverage

Smart continued its network transformation program in 2019 by further expanding and improving its LTE network. The improved Smart LTE network was named by Ookla, a leading internet testing and analysis company, to be the Philippine's fastest mobile network for the 2nd consecutive year. Meanwhile, Open Signal, another international network testing company, also awarded Smart with the "Most Widely Available Urban 4G Coverage" and "Most Widely Available Rural 4G Coverage" awards.

Promoting Data and Content-led Products under the Giga Brand

In 2019, Smart expanded the Giga brand products to new areas such as music, stories and games, and launched new data and content-led products. Giga offers made a significant contribution to our prepaid revenues and now account for over 40% of our top-ups. In order to promote data usage, products under the Giga brand are offered under all of Smart's brands.

Promoting E-Sports Events

Smart promoted several e-sports events in 2019. Smart launched a grass-root e-sports promotion program, the *SiklabSaya* program, which features the popular online mobile game Mobile Legends Bang Bang to promote data usage. Smart sponsored the gaming competition Mobile Legends Bang Bang Professional League and sponsored teams to participate in Philippine's first and only franchise-based e-sports league, The Nationals. Last but not least, Smart partnered with TV5 and Cignal to cover e-sports events such as the e-sports competition in the recently held Southeast Asian Games in Manila. This was the first time that e-sports was a competitive event in an international inter-country sporting event recognized by the International Olympic Committee.

Making Value-added Services Easier to Access through the USSD Menu Browser, or UMB, Platform

Smart promoted its UMB platform to provide customers an easy-to-use and product discovery platform. Smart's prepaid customers no longer needed to memorize passwords or access codes to enjoy Smart's improved data services. Through the UMB platform, customers can access the wide range of Giga products. This resulted in Smart's number of subscribers grew by approximately 23% compared with the year ended December 31, 2018. For 2020, Smart will further improve customers' product discovery experiences with its forthcoming app-based discovery service.

Continuous Promotion of our LTE Services

Smart continued to promote the adoption of LTE-capable devices and LTE sim cards. During the year ended December 31, 2019, Smart launched its LTE Sim Upgrade program which allowed Smart subscribers to upgrade their sim cards to LTE/5G-capable ones without having to change their mobile numbers. As of December 31, 2019, approximately 80% of our wireless subscriber base is LTE ready. With its improved LTE network, Smart has also increased its efforts in promoting products that encourage the use of content and data-led products, such as online video viewing, e-games and social media.

Prepaid

Smart's prepaid brands adopted a three-stage usage strategy to drive data usage. To promote data usage among customers, the prepaid brands adopted free trial campaigns, such as "*Free YouTube for All*" and "*Free IG+FB For all*" in 2019. Meanwhile, Smart launched campaigns to promote products such as *Giga Video*, *Giga Games* and *Giga Stories* to monetize data usage. *Giga Mania raffle* was launched in November 2019, which increased both top-up frequency and drove the upsell of products with higher denomination under the Giga brand. These key initiatives contributed to the significant increase in data users and data revenues for Smart Prepaid.

Postpaid

Smart launched its *Signature* product line. *Signature* makes it easier for subscribers to get on a postpaid plan and have prioritized network coverage. The high quality telecommunication and data services available that the *Signature* product line delivers has encouraged more customers to subscribe for plans with higher data usage.

Rates

Our current policy is to recognize a prepaid subscriber as active only when the subscriber activates and uses the SIM card. Beginning the second quarter of 2017, we consider a prepaid mobile subscriber inactive if the subscriber does not reload within 90 days after the full usage or expiry of the last reload, revised from the previous 120 days.

Smart Prepaid call and text cards are sold in denominations of Php100, Php300 and Php500, while TNT prepaid cards are sold in denominations of Php50, Php100 and Php300. We have updated *Smart eLoad's* over-the-air reloads, which are now available in various denominations ranging from Php15 to Php1,000. The stored value of a prepaid card and *eLoads* remain valid for 365 days regardless of the denomination, pursuant to the MC No. 05-12-2017 issued by NTC and DICT.

Smart also offers fixed rate or "bucket" packages as a means of driving subscriber activations and stimulating usage. These bucket packages, which offer data packages with fixed amount of text messages and call minutes for a limited validity period, have proven to be popular with subscribers.

The updated *Smart Postpaid* plans include high data allocation, unlimited texts to all networks, and unlimited on-net calls with monthly service fees ranging from Php999 to Php2,999 for *Smart Signature* subscribers and from Php3,500 to Php8,000 for *Smart Infinity* subscribers. Additional charges apply at different rates for usage in excess of the allocated amounts under the applicable monthly plan.

Smart subscribers pay an international direct dialing rate of US\$0.40 per minute. This rate applies to calls to most destinations, including the United States, Hong Kong, Japan, Singapore, United Kingdom and United Arab Emirates. Smart charges US\$0.98 per minute for 20 other destinations and US\$2.18 per minute for another nine other destinations. Smart subscribers also have the option of calling at more affordable rates, which are as low as Php2.00 per minute, under the One International Call & Text package.

International web browsing was also made more affordable and convenient with *Roam Surf*, whereby subscribers automatically enjoy web browsing abroad for a fixed rate of Php550 per day, open to both Smart Postpaid and Prepaid

subscribers and covering over 135 countries within the Americas, Asia, Africa, Europe, and Oceania. Data allocation may vary depending on country of destination. Subscribers can also use *Giga Roam* for Php999 with 1GB of open access data when roaming abroad in over 105 countries worldwide. We also offer *Smart Travel WiFi*, a broadband device that provides high-speed internet service in over 100 countries, which is powered by virtual SIM technology that enables local connectivity for up to five devices to local networks for as low as Php290 per day in Asia and Php450 per day elsewhere in the world.

In compliance with Memorandum Circular No. 05-07-2018 issued by the National Telecommunications Commission, or NTC, the interconnection rate for our voice calls was reduced to Php0.50 per minute from Php2.50 per minute, and the rate for SMS was down to Php0.05 per message from Php0.15 per message effective September 1, 2018.

Sales and Distribution

Distributors and Dealers

We sell our mobile services primarily through our regional and key account partners that generally have their own direct sales forces and retail networks. We currently have 19 exclusive regional and 107 exclusive provincial distributors, and 113 key account partners, 25 of which are exclusive. A number of our trade partners are likewise major distributors of smartphones and devices that are retailed in their owned telecommunications outlets. Account managers from our sales force manage the distribution network and regularly update these business partners on upcoming marketing strategies, promotional campaigns and new products. Smart's over-the-air reloads called *Smart eLoad*, required a distribution network that approximates those of fast-moving consumer goods companies. Sun also offers over-the-air reloads through Sun's *Xpress Load*. Our distribution network encompasses approximately 1.5 million retailers with Smart and Sun combined. These retailers must be affiliated with one of Smart's and Sun's authorized regional and provincial distributors. With the prepaid reloading distribution network extended to corner store and individual retailer levels and minimum reloading denominations as low as Php10, Smart's prepaid service became more affordable and accessible to subscribers.

Retail Stores

Retail Stores are company owned *Smart Stores* with 117 branches and *Sun Shops* with 85 branches that showcase our Company's products and services to customers nationwide. Our frontlines enable unique digital experiences through daily customer interaction. We offer enticing products and services based on the customer needs. We also cater for customer aftersales request and inquiries. Our Stores also accept payment for bills, postpaid and prepaid sales.

Satellite Branches which has a total of 32 stores nationwide are partner-owned *Smart* and *Sun* branded stores operating as auxiliary touchpoints for converged wired and wireless sales, aftersales and bills payment.

In 2018, we unveiled our PLDT-Smart converged store in Makati CBD. This flagship store is a one-stop digital hub and store that showcases PLDT, Smart, and Cignal products. The store also has a digital self-service counters which allow subscribers to view and print their bills, check account details, request for repairs and other services. The store also features interactive booths that allow guests to browse the internet, play games, watch videos or listen to music inside the store.

Enterprise Business

Enterprise Business is the group responsible in marketing and selling *Smart* and *Sun* products and services to Corporate clients. Services offered include *Smart* and *Sun Postpaid* and *Broadband* services with bundled phones, tablets and other routers, Smart Infinity, M2M and IOT solutions and platform solutions such as *Messaging Suite* and *Bizload*. Our Enterprise Business Group also partners with software and application vendors in various industry specific solutions and mobile security.

These services are being sold primarily through PLDT Enterprise team and it's two major groups, *Alpha* and *SME*. *Alpha* is the relationship arm of *PLDT Enterprise* for the top three thousand corporate clients while *SME* handles the relationships for the small and medium enterprises. New channels include the Micro SME segment, which sells through the brick and mortar stores and online, and the Enterprise Extension which handles sales to employees of existing Enterprise clients.

Emerging Channels

The Emerging Channels Group leads in identifying and growing new and non-traditional channels. The team aims to ensure that we are equipped to maximize opportunities presented by industry trends and new technologies. We enable the customer to avail of a new service or upgrade their existing subscription. Emerging Channels is composed of Telesales, Online, and Postpaid Field Sales.

Telesales

We reach out to our subscribers to offer the latest promos and services. Our Telesales agents, in partnership with different contact center providers, enable existing subscribers to upgrade and migrate their accounts, as well as recontract their expiring accounts over the phone.

Online

Consumers can also enjoy the convenience of availing our service through the *Smart Online Store*, an end to end portal, where they can transact online to choose phones and apply for new postpaid plans, renew an existing plan, buy prepaid SIM and devices, or subscribe for e-load and various add-on promos. All orders are delivered directly to the customers' addresses. Other online channels include *My Smart App* and *Paywall* that allows add-on promo availment via load conversion or bill on top.

Postpaid Field Sales

In 2018, we launched a new channel called Postpaid Field Sales (PFS). PFS is a new group which was built for an outbound sales attack for Postpaid targeting the corporate individual and capable communities. Through the development and growth of this new channel, we would be able to regain the wireless postpaid stronghold. Starting with 52 territories, complemented by distributor partners, PFS has been on the road towards exponentially growing the mobile postpaid business.

Home Broadband Service

HOME Ultera is a fixed wireless broadband service being offered under PLDT's *HOME* brand. *HOME Ultera*, powered by LTE technology, is specifically designed for the home and offers customized packages.

HOME Ultera and *WiMAX* businesses were transferred to PLDT effective January 1, 2018.

Fixed Line

We provide data, voice services, including LEC, international and domestic services, and miscellaneous services under our fixed line business.

The following table summarizes key measures of our fixed line services as at and for the years ended December 31, 2019, 2018 and 2017:

	December 31,		
	2019	2018	2017
Systemwide fixed line subscriber base	2,765,209	2,710,972	2,663,210
Postpaid	2,739,367	2,683,037	2,634,157
Prepaid	25,842	27,935	29,053
Growth rate of fixed line subscribers	2%	2%	9%
Postpaid	2%	2%	9%
Prepaid	(7%)	(4%)	(8%)
Number of fixed line employees	10,878	8,772	6,832
Number of local exchange line subscribers per employee	254	309	390
Systemwide broadband subscriber base	2,155,386	2,014,030	1,713,527
Fixed Line broadband	1,931,333	1,812,037	1,713,527
Fixed Wireless broadband ⁽¹⁾	224,053	201,993	–
Growth rate of broadband subscribers	7%	18%	18%
Fixed Line broadband	7%	6%	18%
Fixed Wireless broadband	11%	100%	–
Fixed line service revenues (in millions)	Php87,819	Php81,648	Php74,757
Data	60,764	55,732	44,294
Voice	26,267	25,178	28,500
Miscellaneous	788	738	1,963
Percentage to fixed line service revenues			
Data	69%	68%	59%
Voice	30%	31%	38%
Miscellaneous	1%	1%	3%
Percentage of fixed line revenues to total service revenues	55%	53%	49%

⁽¹⁾ Includes *Home Ultera* and *WiMAX* beginning 2018.

Data Services

Our data service revenues include charges for broadband, leased lines, Ethernet-based and IP-based services. These services are used for broadband internet, and domestic and international private data networking communications.

Recognizing the growth potential of data services, and in light of their importance to our business strategy, we have been putting considerable emphasis on these service segments. These segments registered the highest percentage growth in revenues among our fixed line services from 2017 to 2019.

Home Broadband

PLDT HOME remains the nation's leading home broadband service provider, now serving 2.0 million subscribers nationwide as of December 31, 2019 from 1.9 million subscribers as at December 31, 2018. PLDT HOME is the Philippines' fastest fixed network with broadband data services including fixed wired (PLDT Home Fibr) and fixed wireless (PLDT Home WiFi). PLDT Home provides broadband services through its nationwide roll-out of its FTTH network that has reached 7.2 million homes passed as of December 31, 2019.

PLDT's superior FTTH network enables subscribers to enjoy up to 1 Gbps of symmetrical internet speeds or equal upload and download speeds. Ookla, the company behind Speedtest® and the global leader in fixed broadband and mobile network testing applications and data analysis, recognized PLDT as the Philippines' fastest fixed network in its Q3-Q4 2019 reports. Based on 29,505,821 nationwide customer-initiated Speedtest nationwide during Q3-Q4 2019, PLDT achieved a Speed Score of 25.03, with top download speeds of 62.87 Mbps and top upload speeds of 80.07 Mbps.

In 2019, PLDT also expanded its FTTH network to over 100 new cities, municipalities, and provinces including Camiguin, Occidental Mindoro, Oriental Mindoro and Samar. As of December 31, 2019, PLDT Home has over 620 "Fibr-powered PLDT SmartCities" such as Toledo City, Cebu, General Santos City, Naga City, South and East Metropolitan Manila, Rockwell Center, Norzagaray in Bulacan, Arayat in Pampanga, Surallah in South Cotabato, Bayombong in Nueva Vizcaya, Nabunturan in Compostella Valley and Mati City in Davao Oriental, Bangued in Abra, and Cavite as the first "PLDT Fibr-powered SmartProvince".

PLDT HOME also started to roll out its biggest free speed upgrades for its Home Fibr subscribers. These special upgrades boosted the Internet speeds of subscribers up to twice the speed of their existing plan and enabled them to enjoy unlimited, uninterrupted video streaming, lag-free gaming, and seamless browsing at home.

To complement the build-out of its fiber network, PLDT HOME is also modernizing and upgrading its current copper network and the roll-out of FTTH. PLDT has the country's most extensive transmission and distribution network infrastructure which now has 322,400 kilometers of fiber optic cables that transport the growing data traffic of its fixed line and mobile networks.

PLDT Home also addresses the growing demand for affordable home broadband in the Philippines, which has been brought about by the increase in ownership of internet-capable devices and smartphones among households. PLDT Home introduced *PLDT Home WiFi Prepaid*, an affordable wireless Internet service priced at Php995. It is powered by Smart's LTE network, the Philippines' fastest mobile data network with the widest coverage in the country.

A plug and play device, *PLDT Home WiFi Prepaid* can simultaneously connect up to five WiFi-capable devices, such as a smartphone, tablet, and laptop, to high-speed Internet. Each PLDT Home WiFi Prepaid unit comes with 10GB of data valid up to seven days from the date of sim activation. Families can also enjoy affordable load packages. In 2019, the *PLDT Home WiFi Prepaid* line has doubled the data allocation of its FamLoad packages. For instance, FamLoad 199 increased data allocation from 12GB to 24GB, FamLoad 599 from 40GB to 80GB, FamLoad 999 from 65GB to 130GB, and FamLoad 1499 from 100GB to 200GB.

For the year ended December 31, 2019, PLDT Home WiFi's revenues had a six-fold increase and doubled its subscriber base, as compared against the year ended December 31, 2018.

SmartHome

PLDT HOME is strongly committed to fulfilling its subscribers' digital home lifestyle needs through plans that bundle high-speed internet with compelling digital services. PLDT HOME was first to market such services under the *Smart Home* banner. This digital ecosystem is built on the following pillars: entertainment, peace of mind, and automation.

PLDT Home started to offer *Whole Home WiFi*, the Philippines' first *Smart Home WiFi* technology designed to blanket the entire home with wireless connectivity making homes SmartHome-ready. The *Whole Home WiFi* system improves WiFi coverage at home and can eliminate signal blockers and dead spots. The *Whole Home WiFi Plan* for PLDT Home comes with unlimited Fibr connection, "Whole Home" technology and free assisted installation service by our technicians, the *Home Geek Squad*. The *Home Geek Squad*, a group of "technical architects" pioneered by PLDT Home, helps subscribers set up the *Whole Home WiFi* system at home.

To strengthen its suite of connectivity services, PLDT Home launched an exclusive partnership with Google to bring Google WiFi to the Philippines. Google WiFi is a mesh networking system that aims to eliminate dead zones and provide strong and fast signals for all connected devices at home. PLDT Home has enabled the Philippines to become one of the first countries in Asia to introduce Google WiFi after Singapore, Hong Kong, and Japan.

The *Peace of Mind* suite of services of PLDT Home features security-enhancing products like the home monitoring system *Fam Cam*, launched in partnership with network solutions giant D-Link.

For *Entertainment*, PLDT HOME has been providing subscribers with a diverse range of bundled content through its partnerships with global content providers. PLDT introduced PLDT Home TVolution Lite powered by Roku®, an all-in-one, plug-and-play device that brings HD TV channels and Video-on-Demand services into one. Designed with sleek, thin and light features, this powerful device allows subscribers to conveniently access a wide range of entertainment content from global entertainment partners including Southeast Asia's internet TV service provider *iflix*, U.S.-based internet TV pioneer Netflix, Philippine's pay TV service provider Cignal Digital TV, YouTube, and over 100 free streaming channels.

The experience that PLDT Home provides for all Filipino e-sports athletes, fans, and enthusiasts, is an important part of the Entertainment pillar. PLDT launched the PLDT-Smart Omega, our first ever professional e-sports team that competed at The Nationals, the Philippine's first franchise-based e-sports league. Continuing its support for world-class sporting events, PLDT Home sponsored major international e-sports competitions and conventions held in the Philippines, such as the e-sports competitions in the Southeast Asian Games and the Esports and Gaming Summit.

PLDT Home also partnered with the National Basketball Association, or NBA, for a multiyear venture that made select offerings of NBA League Pass, NBA's premium live game subscription service, available to more than 62 million PLDT Home and Smart subscribers in the Philippines. The NBA League Pass includes a Day Pass worth Php50 which provides fans access to live and on-demand NBA games online for 24 hours.

Corporate Data and ICT

Leased lines and other data services include: (i) Diginet, a domestic private leased line service, specifically supporting Smart's fiber optic and enterprises' leased line network requirements; (ii) IP-VPN, an end-to-end managed IP-based or Layer 3 data networking service that offers secure means to access corporate network resources; (iii) Metro Ethernet, a high-speed, Layer 2, wide area networking service that enables mission-critical data transfers; (iv) Shops.Work, a connectivity solution designed for retailers and franchisers, linking company branches to the head office; and (v) Shops.Work UnPlugged, or SWUP, a wireless VPN service that powers mobile point-of-sale terminals and off-site bank ATMs, as well as other retail outlets located in remote areas.

International leased lines and other data services consist mainly of: (i) iGate, our dedicated internet access service, which provides businesses with a high-speed, diverse, reliable and managed connectivity to the global internet; (ii) Fibernet, which provides cost-effective, managed and resilient international high bandwidth point-to-point private data networking connectivity, through our global points of presence and extensive international alliances, to offshore and outsourcing, banking and finance, and semiconductor industries; and (iii) other international managed data services in partnership with other global service providers, which provide web acceleration, network security, content delivery and other data networking services to multinational companies.

ICT services include Data Center services, Cyber Security services, Cloud services, Managed IT services and various IT solutions. On July 2016, ePLDT opened VITRO Makati 2, ePLDT's first TIA-942 Rated 3 Facility certified data center and a Nexcenter certified facility. VITRO Makati 2 is the Philippine's biggest data center with 3,600 racks capacity, located in one of the Philippine's premiere business districts. On February 2017, ePLDT opened the first data center in Mindanao to address the growing enterprise demand in that region. Four days after the opening of the Mindanao data center, ePLDT opened VITRO Clark, the first TIA-942 Rated 3 Facility certified data center outside of Metropolitan Manila, which is the first purpose-built data center in the North Philippines. VITRO Clark primarily serves back-up requirements of Manila-based enterprises. The following year, ePLDT opened its second VITRO Data Center in Cebu which uses the most up-to-date and globally competitive technologies and features. With this latest addition, the ePLDT Group now has a capacity of more than 9,100 racks in 10 locations covering Metropolitan Manila, Subic, Clark, Cebu and Davao.

PLDT Group commercially launched the Philippines' first carrier-grade cloud infrastructure in 2012 and has consistently built partnerships with global Cloud brands and invested in expertise for professional services. The Group offers a full-suite of Cloud Solutions to clients such as Infrastructure-as-a-Service, Software-as-a-Service, Unified Communications-as-a-Service, Contact-Center-as-a-Service, and Disaster Recovery-as-a-Service.

Complementing these capabilities are ePLDT Group's partnerships with Cisco, Google, Microsoft, Salesforce, and SAP among others, through which ePLDT offers professional services beyond infrastructure and license-selling. Among the ePLDT Group's credentials and achievements are Cisco Tier-2 Partner of the Year, Cisco Tier-2 Services Partner of the Year, Cisco Commercial Sales Champion, Cisco Partner Plus Winner's Circle, Dell EMC Tier-2 Partner of the Year, and Top Tier-2 Enterprise Storage Partner. Other awards include Microsoft Productivity Competency Gold Partner, Microsoft Cloud Productivity Competency Gold Partner, Microsoft Collaboration and Content Competency Gold Partner, Microsoft Small and Midmarket Cloud Solutions Competency Gold Partner, Microsoft Cloud Platform Competency Gold Partner, Microsoft Datacenter Competency Gold Partner, Microsoft Country Partner of the Year, Microsoft Cloud Solutions Provider Direct Partner of the Year, Ranked #1 Microsoft Cloud Solutions Provider, Google for Work Partner, Google Cloud Partner, Top value-added reseller for SAP Business 1, SAP All-in-One Gold Partner, SAP Partner of the Year, SAP S4 Partner of the Year and Salesforce Gold Consulting Partner.

Voice Services

Local Exchange

Our local exchange service, which consists of our basic voice telephony business, is provided primarily through PLDT. We also provide local exchange services through our subsidiaries – Philcom Group, Bonifacio Communications Corporation, ClarkTel, SubicTel, and Maratel. Together, these subsidiaries account for approximately 1% of our consolidated fixed line subscribers.

Rates

Basic monthly charges for our local exchange service vary according to the type of customer (business or residential) and location, with charges for urban customers generally being higher than those for rural/provincial customers. Regular installation charges amount to Php1,100 for residential customers and Php1,500 for business customers. New products launched on a promotional basis or products bundled with existing services usually are combined with a waiver of the installation fee or allow for a minimal installation fee of Php500. Aside from basic monthly charges, we charge our postpaid subscribers separately for NDD, IDD and calls to mobile phones. Generally, calls between PLDT and other landlines within a local area code are free. Our prepaid fixed line customers do not pay a basic monthly charge but they

can load a minimum amount of Php200, which will expire in a month, to have unlimited incoming calls. To make outbound calls, customers must top-up, as local calls are charged Php2.00 per call and tolls are charged separately depending on the type of call. We offer the Php300 load plan with 600 free local outgoing minutes and unlimited incoming calls for one month. To make outbound calls in excess of the free minutes, prepaid fixed line customers must top-up their load, with all local calls charged at Php2.00 per call while tolls are charged separately depending on the type of call.

Pursuant to a currency exchange rate adjustment, a mechanism authorized by the NTC, we are allowed to adjust our postpaid monthly local service rates upward or downward by 1% for every Php0.10 change in the Philippine peso-to-U.S. dollar exchange rate relative to a base rate of Php11.00 to US\$1.00. In a letter dated July 11, 2008, the NTC approved our request to implement a rate rationalization program for our local service rates. In 2019, we did not make any adjustment in our monthly local service rates. For a detailed description of these rates, see “– International Service – Rates” and “– Domestic Service – Rates” and Item 6. “Management’s Discussion and Analysis of Financial Condition and Results of Operations – Risk and Uncertainties – Risks Relating to Us – Our business is significantly affected by governmental laws and regulations, including regulations in respect of rates and taxes and laws relating to anti-competitive practices and monopoly.”

International Service

Our international service consists of packet-based voice services and data services that go through our IGFs.

We have been pursuing a number of initiatives to sustain our international service business, including: (i) adjusting slightly our inbound termination rates; (ii) identifying and containing unauthorized traffic termination on our network; (iii) interconnecting popular communication service providers (like Skype and Viber); (iv) introducing a number of marketing initiatives, including implementation of voicemail service and establishment of new voice services (Bucket IDD and Local Number Service); and (v) grow international data sales leveraging on PLDT’s sub-sea cable ownership and reach.

In addition, PLDT Global is also enhancing the presence of PLDT in other international markets by offering products and services such as international prepaid calling cards, virtual mobile services, SMS transit and other global bandwidth services. These strategies are intended to help us maximize the use of our existing international facilities, and develop alternative sources of revenue.

The table below sets forth the net settlement amounts for international calls handled by PLDT, by country, for the years ended December 31, 2019, 2018 and 2017:

	Net Settlement		
	2019	2018	2017
	(in millions)		
Saudi Arabia	US\$12	US\$18	US\$36
Australia	5	2	1
United Arab Emirates	5	12	10
Hong Kong	5	8	6
Canada	4	4	6
Qatar	2	2	1
United States of America	2	2	10
Cyprus	1	1	1
Japan	1	2	2
Others	6	4	11
Total	US\$43	US\$55	US\$84

Rates

Rates for outbound international calls are based on type of service, whether operator-assisted or direct-dialed. Our rates are quoted in U.S. dollars and are billed in Philippine pesos. The Philippine peso amounts are determined at the time of billing. We charge a flat rate of US\$0.40 per minute to retail customers for direct-dialed calls, applicable to all call destinations at any time on any day of the week.

Domestic Service

Our domestic services are provided primarily through PLDT. This service consists of voice services for calls made by our fixed line customers outside of their local service areas within the Philippines and access charges paid to us by other telecommunications carriers for wireless and fixed line calls carried through our backbone network and/or terminating to our fixed line customers.

Mobile substitution, OTT voice call alternatives and the widespread availability and growing popularity of alternative, more economical to free non-voice means of communications, such as e-mails, SMS and social networking sites, have negatively affected our domestic call volumes.

Rates

Rates for domestic calls traditionally were based on type of service, such as whether the call is operator-assisted or direct-dialed. However, PLDT simplified these rates in recent years for calls originating from and terminating to the PLDT fixed line network and for calls terminating to fixed line networks of other LECs. PLDT also simplified its rates for calls terminating to mobile subscribers.

In addition, PLDT bundles the free PLDT-to-PLDT calls in some promotions and product/service launchings in order to stimulate fixed line usage.

Miscellaneous

Miscellaneous services provide facilities management, rental fees, and other services which are conducted through our wholly-owned subsidiary, ePLDT, which, together with its subsidiaries, is a broad-based integrated information and communications technology company.

Infrastructure

Wireless Network Infrastructure

Mobile

Through Smart and DMPI, we operate a digital GSM network. To meet the growing demand for mobile services, Smart and DMPI have implemented an extensive deployment program for their GSM network covering substantially all of Metropolitan Manila and most of the other population centers in the Philippines.

Smart has been continually extending its 3G footprint, and now has over 13,000 3G base stations in the Philippines. The 3G network provides more capacity, faster data rates and richer data and video applications from a 2G network.

Smart launched its 4G LTE network in August 2012. As at December 31, 2019, Smart has established more than 24,000 4G/LTE base stations throughout the Philippines and serves over 90% of the country's cities and municipalities with its combined 2G, 3G, and 4G LTE network.

In November 2018, PLDT-Smart launched Philippine's first Smart 5G Cities in Pampanga and Makati. In the same month, they also successfully made the country's first 5G-to-5G non-standalone, or NSA, video call between the two 5G Smart cities.

In August 2019, PLDT and Smart have successfully made the first 5G standalone, or SA, video call in Southeast Asia, using Nokia's 5G SA equipment at the PLDT-Smart 5G Technolab in Makati City. The 5G Technolab, which was launched in 2018, is the Company's flagship facility for the research and development, standardization, and testing of 5G. It is designed to be a sustainable environment for innovative services.

Also in 2019, Smart provided the technology for "Araneta 5G City" to become the country's first Smart 5G Lifestyle Hub and 5G-enabled shopping mall, which hosted the country's first 5G indoors deployment. PLDT and Smart have also launched 5G at the Ateneo de Manila University, transforming it into the first Smart 5G campus and enabling the university's students and tech experts to co-develop practical and relevant 5G solutions.

Smart, along with PLDT, also became the official telecom partners of the 30th Southeast Asian Games and staged a special 5G showcase at the country's first Smart 5G Stadium City in New Clark City to demonstrate to Filipino sports fans the exciting new applications made possible by 5G mobile technology.

Moreover, with its ongoing LTE and LTE-Advanced roll-out, Smart is also deploying 5G-capable equipment and upgrading its network's Core and Transport elements, including upgrading the backhaul connecting the network's cell sites nationwide to fiber.

Home Broadband

Home Broadband offers fixed wireless broadband internet connectivity to both residential and corporate clients. Over 2,000 of Smart's base stations are now fixed wireless broadband-capable, covering most of the key cities and the other populated centers in the country. These are strategically collocated in Smart's mobile base stations that allow it to efficiently reach many subscribers. For its backbone, it uses the nationwide PLDT and Smart fiber optic and IP backbone that provide substantial bandwidth capacity to utilize and to grow on demand.

Fixed Line Network Infrastructure

Domestic

Our domestic telephone network includes installed telephones and other equipment, such as modems on customers' premises, copper and fiber access lines referred to as "outside plant connecting customers to our exchanges," inter-exchange fiber optics connecting exchanges, and long distance transmission equipment with unmatched capacity and

reach. As at December 31, 2019, we have managed to modernize NGN soft switches including international gateways, and are expanding the wireline infrastructure in areas we believe are unserved and underserved areas.

In early 2016, we completed the upgrade of our fixed line facilities to fully IP-based platforms that can deliver voice and data services using a copper or fiber line to the customer with improved quality of service. This migration initiative enables us to fully replace the aging Public Switched Telephone Network, or PSTN, and transfer existing customers to these newer platforms, in an effort to ensure the best service for new customers of voice and data services for their present and future needs with a diversified range of telecommunication services using IP technology.

One of these platforms, FTTH, is an advanced access technology that employs fiber optics all the way up to customer premises. To realize this, we are building a fiber distribution network that will connect homes and other premises to further ensure good internet quality even kilometers away from the serving exchange. This new optical fiber distribution network will eventually replace conventional copper cable. At present, FTTH is potentially capable of delivering up to 2.5 Gigabits per second, or Gbps, download speed and 1.25 Gbps upload speed. Its huge bandwidth enables us to deliver high-bandwidth content and services to our subscribers. These include high definition broadcast television, video-on-demand, and other new services being offered by leading telecommunications companies outside the Philippines.

Along with PLDT's pole infrastructures, we have been using the poles of Manila Electric Company, or Meralco, to deploy the FTTH FOC Network in Metropolitan Manila and in the rest of Meralco's service areas for PLDT's outside plant aerial cable pursuant to lease agreements with Meralco. PLDT is also using the pole infrastructure of other electric utility companies outside Meralco's service area.

Our network includes an internet gateway that is composed of high capacity and high performance routers that serve as our IP network gateway connecting the Philippines to the rest of the world. It provides premium and differentiated internet service to all types of customers ranging from ordinary internet to high bandwidth broadband requirements of corporate customers, knowledge processing solution providers, internet service providers, or ISPs, and even other service providers. Additionally, transparent caching service that is hosted in our domestic data centers provides a faster internet experience for customers. The caching facility includes well known websites such as Netflix, iflix, *Google*, *Facebook* and Amazon, among others.

Furthermore, we have several networks that provide domestic and international connectivity for corporate customers and other carriers. These include the Multi-Service Access Platform, or MSAP, based on Synchronous Digital Hierarchy, or SDH, technology and data networks that provide wide range of bandwidth from low speed to high speed capacity up to 1Gbps. These MSAP networks are deployed in strategic areas nationwide. Starting 2015, we employed demarcation CPE that provides a purely IP-based access last mile with speed of up to 10 Gbps to single enterprise customer.

In 2018, we completed Phase 8 deployment of our Carrier Ethernet Network, or CEN, covering more exchanges to serve the growing demand for high bandwidth or up to 10Gbps Ethernet services from the corporate segment and prepare the network for efficient delivery of multimedia services. Carrier Ethernet service is a global standard for secure, scalable, resilient, cost effective, and high bandwidth point-to-point or multi-point connectivity using the simple and ubiquitous Ethernet technology delivered through PLDT's MEF-certified CEN. It supports enterprise requirements such as data storage, headquarter to branch connectivity, headquarter to disaster recovery site connectivity, cloud services and backhaul for mobile/LTE services. PLDT's CEN also serves as aggregation point for NGN and FTTH access nodes.

We likewise have an IP backbone network, or IPBB, composed of high-capacity, high-performance core and edge routers, now with capacities of up to 100Gbps in key exchanges that provide IP connectivity to the different network elements built for PLDT, Smart, subsidiaries and affiliates and corporate customers. It serves as the common and highly resilient IP transport platform for all IP-based services of the PLDT Group.

The PLDT DFON is a nationwide backbone network. It is the first fiber optic backbone network in the country and is used to deliver voice, video, data, and other broadband and multimedia services nationwide. It is comprised of nodes connected by terrestrial and submarine cable links configured in 11 loops and two appendages extending to Palawan and Iligan. The DFON loops provide self-healing and alternative segment route protection for added resiliency against single and multiple fiber breaks along the different segments. The DFON uses the ROADM and 10/40/100G technology which give it greater flexibility for capacity and expansion. The network also includes interconnectivity among the three international cable landing stations of PLDT with its own backhaul capacity and resiliency under the same DFON platform. To date, the network has an aggregated loop capacity of nearly 15.3 Terabits per second. The DFON is complemented by a terrestrial microwave backbone network to deliver services to remote areas unreachable by the fixed terrestrial transport network. Both the DFON and IPBB serve as the common high bandwidth Fiber Optic Cable-based backbone for the PLDT Group. DFON is part of the 322,400 total fiber kilometers of the PLDT Group.

Aside from the DFON and IPBB, the PLDT Group has embarked on further synergy initiatives to rationalize and integrate its networks which include, among others, the outside plant, the DSL network, the IP backbone, the transmission systems, the internet gateway, international voice gateway, the PSTN, and NGN. These initiatives are expected to complement and enhance coverage and capacity for all networks in the PLDT Group.

PLDT is undergoing a transport network transformation program, which includes the transformation of DFON, IP Backbone and Carrier Ethernet network into a new architecture and technology in preparation for the provision of 5G services.

International

PLDT's international network was designed and built to support IP-based international services, including IDD, messaging, international enterprise solutions, and the biggest use of international network resources today, the Internet services of the PLDT Group. The international network also supports in part requirements of the international retail business run by PLDT Global in various locations in Asia, Europe and the United States.

For voice services, PLDT operates two IP voice gateways. As at December 31, 2019, PLDT's international long distance facilities allow direct voice correspondence with 72 foreign carriers from 39 countries and can reach almost a thousand foreign destinations (including fixed and wireless network destination "breakouts", or specific areas within a country) worldwide.

The Company has five international internet gateways to fortify PLDT Group's infrastructure for internet and IP-based services, as well as connections of our fixed and wireless networks to content and internet services available from, and businesses connected to, the global internet. All these gateways employ high capacity, high performance routers, and together with ancillary facilities (such as security against network/service attacks), they provide premium and differentiated internet and/or IP services to all types of customers ranging from ordinary broadband to high bandwidth internet requirements of corporate customers, knowledge processing solution providers, ISPs and even other service providers. PLDT also operates three offshore/forward gateway routers in Hong Kong, Singapore and the United States to support optimized and direct access to content providers and businesses connected to the internet in Asia as well as the continental U.S which we expect to result in faster internet speed. Offshore Gateway routers in Hong Kong and Los Angeles were replaced in the second quarter of 2018 to support 100 Gbps high capacity interface bandwidth and equipped with security module to help prevent cyberattacks originating through such gateways.

To localize international internet content, PLDT employs local transparent caching network, additional content provider partnering and continuous capacity expansion with various popular internet content providers. High demand contents from popular content and CDN providers are available locally and are delivered to PLDT customers.

To provide the international transport backbone for the voice and internet gateways as well as other international data services, PLDT operates the Philippines' most extensive international submarine cable network. To date, PLDT maintains and operates three international cable landing stations in La Union and Batangas for international cables coming from the West Philippine Sea, and in Daet in the east for international cables coming from the Pacific Ocean. These international cable stations are connected by an advance terrestrial fiber mesh network (North, South and East Luzon systems) to our three International Transmission Maintenance Centers, including direct cable station to cable station interconnection.

Connecting the country to the rest of the world via PLDT's international cable stations are submarine cable systems in which PLDT had invested in and/or acquired capacities. The table below shows submarine cable systems, in which PLDT has interests, that terminate in the Philippines or connect onward to other submarine cable systems from the Philippines, and the countries or territories they link:

Cable System	Countries Being Linked
Asia-Pacific Cable Network 2, or APCN2	Philippines, Hong Kong, Japan, Korea, Malaysia, Singapore, China and Taiwan
Southeast Asia-Middle East-Western Europe No. 3 Cable, or SEA-ME-WE-3	Japan, Korea, China, Taiwan, Hong Kong, Macau, Philippines, Vietnam, Brunei, Malaysia, Singapore, Indonesia, Australia, Thailand, Myanmar, Sri Lanka, India, Pakistan, United Arab Emirates, Oman, Djibouti, Saudi Arabia, Egypt, Cyprus, Turkey, Greece, Italy, Morocco, Portugal, France, UK, Belgium and Germany
Fiber-optic Loop Around the Globe, or FLAG, Cable	Japan, Korea, China, Hong Kong, Malaysia, Thailand, India, United Arab Emirates, Saudi Arabia, Egypt, Italy, Spain and UK
Southern Cross Cable	U.S. Mainland, Hawaii, Fiji, Australia and New Zealand
East Asia Crossing, or EAC Cable	Japan, Hong Kong, Korea, Taiwan, Singapore and the Philippines
Pacific Crossing-1, or PC1, Japan-U.S. Cable Network (JUCN), TGN-Pacific, Unity, FASTER	Japan and the U.S.
Asia-America Gateway, or AAG, Cable Network	Malaysia, Singapore, Thailand, Vietnam, Brunei, Hong Kong, Philippines, Guam, Hawaii and the U.S. Mainland
Asia Submarine-cable Express, or ASE	Philippines, Japan, Singapore, Malaysia and Hong Kong
TGN-Intra Asia	Hong Kong and Japan
Asia Africa Europe-1, or AAE-1 Cable	Hong Kong, Vietnam, Cambodia, Thailand, Malaysia, Singapore, Myanmar, India, Pakistan, Oman, UAE, Qatar, Yemen, Djibouti, Saudi Arabia, Egypt, Greece, Italy and France

PLDT continues to work with major Asian carriers and OTT players for the implementation of the new Jupiter cable system to support the expected new fixed and mobile services requirements in 2020. Jupiter is expected to be ready for service by the fourth quarter of 2020. Furthermore, PLDT signed MOUs with strategic partners for the planning of two new regional cable systems. The Construction and Maintenance Agreement and Supply Contract for the first new system were entered into in February 2020, while those for the second new system are expected to be entered into in the second half of 2020.

The AAG, APCN2 and ASE upgrade projects were completed in 2018. These equipment upgrades provided PLDT with additional capacities using 100 Gbps and 150 Gbps technologies.

PLDT's international automatic optical transport switching system continues to provide effective redundancy and continuity of service to Hong Kong, Japan, Singapore and the U.S. Mainland for premium enterprise clients. Additional

dedicated submarine cable circuits were provisioned, and capacity of nodes upgraded, to support the growing business requirements.

With regard to service enabling platforms, the Company's ARCHER platform supports voice and data services that are being offered in various parts of the world to serve mainly overseas Filipinos. The platform provides convergent charging, self-care, dealer portal, voucher management, call control, campaign and loyalty capabilities, and facilitates the time to market for new international mainstream products and new digital products.

Interconnection Agreements

Since the issuance of Executive Order, or E.O., No. 59 in 1993, which requires non-discriminatory interconnection of Philippine carriers' networks, we have entered into bilateral interconnection arrangements with other Philippine fixed line and mobile carriers. See Item 1. "Description of Business – Licenses and Regulations – Regulatory Tariffs" for further discussion.

As at December 31, 2019, PLDT has direct interconnection agreements with 94 foreign carriers from 44 countries.

The average international termination rate for calls to PLDT was approximately US\$0.084 per minute in 2019. Also, PLDT carries international calls terminating at Smart and Sun networks where they have no direct interconnections.

Through NTC MC 05-07-2018, the NTC has mandated the reduction of the interconnection access charge for SMS services from Php0.15 per SMS to Php0.05 per SMS and the voice service from Php2.50 per minute to Php0.50 per minute, effective August 24, 2018.

However, Public Telecommunications Entities, or PTEs, have bilaterally agreed to implement the revised interconnection access charge effective September 1, 2018, to align with the existing billing and settlement systems cut-off date cycle, which is at the end of the month.

Licenses and Regulations

Licenses

The table below shows the expiry dates of franchises for each company indicated:

Company	Expiry Date of Franchises
PLDT	November 28, 2028
SubicTel ⁽¹⁾	January 23, 2020
Clarktel	June 30, 2024
Philcom ⁽¹⁾	September 15, 2019
Digitel ⁽¹⁾	February 17, 2019
Smart	May 19, 2042
Maratel ⁽¹⁾	April 27, 2020
SBI	July 14, 2022
DMPI	December 11, 2027
CURE ⁽²⁾	April 24, 2026

⁽¹⁾ Digitel, Philcom, SubicTel and Maratel did not seek for an extension of their respective franchises.

⁽²⁾ In the case of CURE, PLDT has agreed to divest the CURE spectrum as a part of the NTC decision with respect to PLDT's acquisition of a controlling interest in Digitel.

A franchise holder is required to obtain operating authority from the NTC to provide specific telecommunications services authorized under its franchise. These approvals may take the form of a CPCN, or, while an application for a CPCN is pending, a provisional authority to operate. Provisional authorities are typically granted for a period of 18 months. The Philippine Revised Administrative Code of 1987 provides that if the grantee of a license or permit, such as a CPCN or provisional authority, has made timely and sufficient application for the extension thereof, the existing CPCN or provisional authority will not expire until the application is finally decided upon by the administrative agency concerned.

The following table sets forth the spectrum system, licensed frequency bands and bandwidth assignments used by Smart, DMPI, SBI and PDSI:

Assignees	Service/Technology	Bands (in MHz)	Bandwidth Assignment
Smart	3G-WCDMA	850	10MHz x 2
	GSM 900	900	7.5MHz x 2
	GSM 1800	1800	20MHz x 2
	3G-WCDMA	2100	15MHz x 2
DMPI	CDMA 2000	1900	2 channels of 1.25 MHz of bandwidth
	3G-WCDMA	2100	10MHz x 2
	TD-LTE	2500	15MHz
	TD-LTE	3400	30MHz
	GSM 1800	1800	17.5MHz x 2
SBI	TD-LTE	2500	20MHz
	TD-LTE	3400	30MHz
PDSI	TD-LTE	2300	30MHz

The NTC approved the frequency co-use arrangement between Smart and Globe of various frequencies under LTE 700, GSM/3G 900, GSM/LTE 1800, BWA/LTE 2300, and LTE 2500 assigned to Bell Telecommunications Philippines, Inc.

As a condition of our acquisition of a controlling interest in Digitel, we have agreed with the NTC that we will divest the congressional franchise, spectrum and related permits held by CURE following the migration of CURE's *Red Mobile* subscriber base to Smart. See Item 1. "Description of Business – Recent Developments" and *Note 2 – Summary of Significant Accounting Policies – Divestment of CURE* to the accompanying audited consolidated financial statements in Item 7. "Financial Statements" for further discussion.

Material Effects of Regulation on our Business

Operators of IGFs and mobile telephone operators, pursuant to E.O. No. 109, are required to install a minimum number of local exchange lines. Of these new lines, operators are required to install one rural exchange line for every ten urban exchange lines installed. Smart and PCEV were required to install 700,000 and 400,000 rural lines, respectively, and each received a certificate of compliance from the NTC in 1999.

PLDT, ClarkTel, Smart, and SBI are required to pay various permits, regulation and supervision fees to the NTC. PLDT was previously engaged in disputes with the NTC over some of the assessed fees.

The NTC has issued a number of directives that regulate the manner in which we conduct our business:

- RA No. 9775 or the Anti-Child Pornography Act of 2009 and its Implementing Rules and Regulations, or IRR, provide that Internet Service Providers, or ISPs shall install available technology, programs or software to ensure that access to or transmittal of any form of child pornography will be blocked or filtered. PLDT and Smart together with other ISPs, are currently in discussion with the Department of Justice, or DOJ, NTC and other stakeholders on how to implement the conflicting provision in the law which requires mandatory filtering of child pornography by the ISPs while also prohibiting the ISPs from monitoring any of its users or content.
- On December 19, 2011, the NTC issued a Decision in NTC ADM Case 2009-048 which lowered the interconnection charge between LEC and CMTS to Php2.50 per minute from Php4.00 per minute for LEC to CMTS and Php3.00 per minute from CMTS to LEC. PLDT and Smart individually filed on February 1, 2012 and January 20, 2012, respectively, separate motions for reconsideration arguing (among other things) that interconnection, including the rates thereof, should be, by law, a product of bilateral negotiations between the parties and that the decision to set lower rates was unconstitutional as an invalid exercise by the NTC of its quasi-legislative powers and violates the constitutional guarantee against non-impairment of contracts. The NTC denied the motion and PLDT and Smart appealed to the CA, reiterating among other things, that the NTC erred in ruling that all LECs are automatically entitled to a cross-subsidy; that the NTC decision violates PLDT and Smart's right to due process; and that the NTC decision violates the constitutional proscription against non-impairment of contracts. On December 12, 2014, the CA granted Smart's petition for review and set aside the NTC decision dated December 19, 2011. PAPTELCO has also filed a motion for reconsideration which was denied by the CA in a Resolution dated September 18, 2015. A Petition for Review was filed by PAPTELCO before the Supreme Court which remains pending.
- On December 20, 2017, NTC, DICT and Department of Trade and Industry, or DTI issued the Joint Memorandum Circular No. 05-12-2017, extending the validity of all prepaid load to one year.
- PLDT and Smart have complied with E.O. No. 56 issued by President Rodrigo Duterte on May 25, 2018, which provides that all calls made to the Emergency 911 Hotline shall be free of any charges. PLDT and Smart subscribers can now call the 911 hotline for free.
- On August 15, 2018, the National Electrification Administration, or NEA, through Memorandum No. 2018-055, increased the pole rental rate to Php420 per cable position per pole per annum.
- On May 24, 2019, DICT issued the rules on the accelerated roll-out of common towers to ensure more access to cost-efficient ICT infrastructure and enable the building or converting of at least 2,500 common towers in (i) identified DICT-owned properties, (ii) other government agencies' properties, and (iii) hard-to-access areas identified by telecommunication operators. The DICT, under the administration of Sec. Gregorio Honasan, will issue the final draft of the Common Tower Policy.
- On May 31, 2019, the NTC issued MC No 01-05-2019 which set out the rules and regulations for unlocking of mobile phones and devices of users after the customer has complied with the terms and conditions of the subscription agreement within the agreed lock-in period.

On July 17, 2019, the Civil Service Commission, or CSC, Anti-Red Tap Authority, or ARTA, and DTI issued Joint Memorandum Circular No. 2019-001 Series of 2019 or the IRR of RA No. 11032 otherwise known as the "Ease of Doing Business and Efficient Government Service Delivery Act of 2018." While issuance of the IRR is a positive development for PLDT's business, the IRR has yet to be fully implemented. LGUs still require outdated, redundant, and unnecessary licenses, clearances, permits, and continue to impose tower fees and other regulatory fees without legal basis. Outdated, redundant, and

unnecessary permits issued by Local Government Units (LGUs) continue to negatively impact PLDT and Smart's rollout of telecommunications infrastructure. While ARTA is mandated to review and recommend the repeal of these outdated, redundant and unnecessary permits within three months from the effectivity of the IRR, this is yet to be fully realized in practice.

- On July 29, 2019, the Department of Interior and Local Government, or DILG, issued Memorandum Circular No. 2019-121, enjoining local officials to exercise their powers to reclaim and clear public roads which are being used for private purposes. As a consequence, many PLDT poles, including cables, were required to be removed or relocated.
- On October 6, 2019, Memorandum Order No. 10-10-2017, issued by NTC on October 27, 2017, which relates to the migration of all existing seven digit telephone numbers to eight digit telephone numbers for local telephone service within the "02" local exchange area, was fully implemented.

In order to diversify the ownership base of public utilities, the Public Telecommunications Policy Act R.A. 7925, requires a telecommunications entity with regulated types of services to make a public offering through the stock exchange of its shares representing at least 30% of its aggregate common shares within five years from: (a) the date the law became effective; or (b) the entity's commencement of commercial operations, whichever date is later. PLDT and PCEV have complied with this requirement. On May 19, 2017, R.A. No. 10926 took effect which extended the Legislative Franchise of Smart. The law contains a provision which exempts Smart from the requirement of listing of shares if a grantee is wholly-owned by a publicly-listed company with at least 30% of whose authorized capital stock is publicly-listed.

If DMPI is found to be in violation of R.A. 7925, this could result in the revocation of the franchise of DMPI and possible filing of a *quo warranto* case against DMPI by the Office of the Solicitor General of the Philippines. DMPI takes the position that the provisions of R.A. 7925 are merely directory and the policy underlying the requirement of telecommunications entities to conduct a public offering should be deemed to have been achieved when PLDT acquired a 100% equity interest in DMPI in 2011, since PLDT continues to be a publicly-listed company. However, there can be no assurance that for DMPI, the Philippine Congress will agree with such position.

See Item 6. "Management's Discussion and Analysis of Financial Condition and Results of Operations – Risk and Uncertainties – Risks Relating to Us – Our business is significantly affected by governmental laws and regulations, including regulations in respect of our franchises, rates and taxes, and laws relating to anti-competitive practices and monopoly" for further discussion.

Regulatory Tariffs

In January 2009, the access charge for domestic calls from one fixed line to a fixed line in another network was updated to the range of Php1.00 per minute to Php3.00 per minute while the access charge for calls from fixed line to CMTS was updated to Php4.00 per minute. The access charge for CMTS calls to fixed line network remained at Php3.00 per minute.

PLDT is an Inter-Exchange Carrier providing transit service among CMTS, LEC operators including the PAPTELCO and non-PAPTELCO. Transit is a service being provided by PLDT to connect calls from one carrier to other carriers most of which have no direct interconnection. Since January 2009, PLDT's transit fee remains at Php0.50 per minute for short haul (intra-island), Php1.25 per minute for long-haul (inter-island) and Php1.14 per minute for CMTS calls.

On November 24, 2016, the NTC issued MC No. 09-11-2016 entitled Interconnection Charge for Voice Services mandating that interconnection charge for voice calls between two separate networks shall not be higher than Php2.50 per minute. The MC likewise directed that existing interconnection agreements shall be amended to comply with this MC within 10 days from the effectivity of this MC. The new agreed reduced interconnection charges shall be effective not later than January 1, 2017 to give sufficient time for the necessary adjustment in the operators' respective billing systems.

On July 19, 2018, the NTC issued MC No. 05-07-2018 entitled Interconnection Charge for Short Messaging Services and Voice Service mandating that interconnection access charge for voice service and SMS shall be Php0.50 per minute and Php0.05 per SMS, respectively. Consequently, the NTC issued a Memorandum dated August 6, 2018 directing all PTEs to amend the PTEs interconnection agreements by August 14, 2018 and impose the new interconnection charges not later than August 24, 2018. The PTEs have agreed to implement the new interconnection access charge for SMS services and voice service effective September 1, 2018 to align with the PTEs existing billing and settlement systems cut-off date cycle.

On February 08, 2019, Republic Act 11202, otherwise known as the MNP Act, was enacted. Among other things, the MNP Act provides that a customer can retain his mobile number when he moves from one mobile service provider to another, or changes the type of subscription from postpaid to prepaid or vice versa. It also contains provisions regulating certain tariffs that mobile service providers charge. One pertinent provision of the MNP Act states that no interconnection fee or charge shall be imposed by any mobile service provider for domestic calls and SMS made by a subscriber. This provision excludes interconnection fees charged by fixed-line operators.

On June 11, 2019, the NTC issued MC No. 03-06-2019 or the IRR of RA No. 11202 otherwise known as the MNP Law. The MNP Law, once fully implemented, will materially affect Smart's business operations. Preparations to implement MNP are ongoing. Under the MNP Law, among other things, Smart is required to (i) make technical configurations in its systems; and (ii) update its business rules to reflect requirements under provisions relating to cybersecurity, data privacy, customer experience in the MNP Law. The MNP Law also requires mobile service providers to provide MNP services free-of-charge.

PLDT has continually and actively negotiated with other legitimate Philippine fixed and CMTS carriers for interconnection based on the guidelines being issued by the NTC or any authorized government agency. These carriers include the major fixed and mobile players in the industry with nationwide operations, PAPTELCO and other non-PAPTELCO players, both of which usually operate in selected towns in the countryside. As at December 31, 2019, PAPTELCO has 34 member companies, of which 31 are active, operating 61 main telephone exchanges in the countryside.

Competition

Including us, there are five major LECs, eight major IGF providers and two major mobile operators in the Philippines. Some new entrants into the Philippine telecommunications market have entered into strategic alliances with foreign telecommunications companies, which provide them access to technological and funding support as well as service innovations and marketing strategies.

Mobile Service

Currently, there are only two major mobile operators, namely us and Globe. As at December 31, 2019, mobile market penetration in the Philippines is in excess of 100% based on SIM ownership.

Competition in the mobile telecommunications industry has intensified with greater availability of unlimited offers from the telecommunications operators resulting in increased volumes of data usage, calls and texts but declining yields. Globe continued to compete aggressively to gain revenue market share, albeit on a more regional/localized basis. Competition also increased in the postpaid space with more aggressive promotions involving greater handset subsidies. The principal bases of competition are price, including handset prices in the case of postpaid plans, quality of service, network reliability, geographic coverage and attractiveness of packaged services, including video content.

In recent years, the prevalence of OTT services, such as social media, instant messaging and internet telephone, also known as VoIP services, has greatly affected our legacy revenues namely voice and SMS. We are also facing growing competition from providers offering services using alternative wireless technologies and IP-based networks, including efforts by the Philippine government to roll-out its free *WiFi* services to various municipalities in the country.

Voice

Local Exchange

Although the growth of the fixed line voice market has been impacted by higher demand for mobile services, we have sustained our leading position in the fixed line market on account of PLDT's extensive network in key cities nationwide. In most areas, we face one or two competitors. Our principal competitor in the local exchange market, Globe, provides local exchange service through both fixed and fixed wireless landline services.

Fixed wireless landline services resemble a mobile phone service but provide the same tariff structure as a fixed line service such as the charging of monthly service fees. Our major competitor, Globe, offers services in limited areas of Metropolitan Manila such as Makati, Las Piñas, the Visayas region and selected areas of Southern Luzon such as Cavite and Batangas.

International

While we maintain a leadership position in this highly competitive service segment of the industry, our market share in recent years has declined as a result of: (1) competition from other IGF operators; (2) migration from fixed to direct mobile calling; and (3) the popularity of alternative and cheaper modes of communication such as e-mail, instant messaging, social-networking (such as *Facebook*, *Twitter* and *Instagram*), including "free services" over the internet (such as *Skype*, *Viber*, *Line*, *Facebook Messenger*, *GoogleTalk* and *WhatsApp*, and similar services), and the establishment of virtual private networks for several corporate entities, which have further heightened competition.

With respect to outbound calls from the Philippines, we compete for market share through our local exchange and mobile businesses, which are the origination points of outbound international calls. We also have introduced a number of marketing initiatives to stimulate growth of outbound call volumes, including tariff reductions and volume discounts for large corporate subscribers.

The number of inbound calls into the Philippines has been negatively impacted by the popularity of OTT services due to improved internet access and increased smartphone adoption as a result of intense local competition. We have been pursuing a number of initiatives to mitigate the decline in our inbound telecommunications traffic, including a modest

reduction of our termination rates, marketing and promotions to call Philippines, interconnecting with OTT providers like *Skype* and *Viber* in order to directly capture their organic traffic to the Philippines and continuously identifying and limiting unauthorized traffic termination. In addition, we have also established presence, through our wholly-owned subsidiary PLDT Global, in key cities overseas to identify and capture Philippine terminating traffic at its source, and develop alternative sources of revenue (e.g. ad-based calling service).

Domestic

Our domestic service business has been negatively affected by the growing number of mobile subscribers in the Philippines, and the widespread availability and growing popularity of alternative economical to free non-voice methods of communication, particularly OTT services, e-mail and social media, coupled with the mandate of the government regulatory body. In addition, various ISPs have launched voice services via the internet to their subscribers nationwide.

While domestic call volumes have been declining, we have remained the leading provider of domestic service in the Philippines due to our significant subscriber base and ownership of the Philippines' most extensive transmission network.

From time to time, PLDT launches promotions bundled with our other products to attract new subscribers including free PLDT-to-PLDT NDD service.

Data Services

The market for data services is a growing segment in the Philippine telecommunications industry. This development has been spurred by the significant growth in consumer and retail broadband internet access, enterprise resource planning applications, customer relationship management, knowledge processing solutions, online gaming and other e-services that drive the need for broadband and internet-protocol based solutions both in the Philippines and abroad. Our major competitors in this area are Globe, Converge ICT Solutions, Inc. and Sky Cable. The principal bases of competition in the data services market are coverage, price, content, value for money, bundles or free gifts, customer service and quality of service. PLDT intends to compete in this segment, consistent with its overall strategy to broaden its distribution platform and increase its ability to deliver multimedia content.

Principal Competitor

The table below sets out our principal competitor's market share and other relevant information for 2019:

	Asset Base	Service Revenues (in millions)	Core Income	Market Share	
				Fixed Line ⁽¹⁾	Mobile
Globe ⁽²⁾	304,291	149,010	22,451	34%	56%

⁽¹⁾ Includes fixed wireless Home broadband.

⁽²⁾ Based on Globe's 2019 audited consolidated financial statements filed with the Philippine SEC on February 27, 2020.

Competitive Strengths

We believe our business is characterized by the following competitive strengths:

- Recognized Brands.** PLDT, Smart, *TNT* and *Sun* are widely recognized brand names in the Philippines. We have built the PLDT brand name for more than 90 years as the leading telecommunications provider in the Philippines. Smart is recognized in the Philippines as an innovative provider of high-quality mobile services. The *TNT* brand, which is provided using Smart's network, has also gained significant recognition as a price-competitive brand. Since its launch in 2003, *Sun* has built considerable brand equity as a provider of "unlimited", no frills, value-for-money services. Having a range of strong and recognizable brands allows us to offer to various market segments differentiated products and services that suit customers' budgets and usage preferences.
- Leading Market Shares.** We have maintained our position as a market leader in fixed line and broadband markets in the Philippines in terms of both subscribers and revenues.
- Diversified Revenue Sources.** We derive our revenues from two of our business segments, namely, Wireless and Fixed Line. Revenue sources of our wireless business include mobile (mobile data, voice, SMS and inbound roaming and other mobile services), home broadband, and MVNO and other services. The revenues from data services, particularly mobile internet services, have increased over the past several years and are now able to offset the decline in mobile voice and SMS revenues. Our fixed line business derives service revenues from data/broadband, voice (local exchange, international and domestic services), and miscellaneous services. The revenue contributions from our home broadband, corporate data and leased lines, and ICT services now account for the bulk of the fixed line revenues, while revenues from international and domestic fixed line services now account for only 29% of the total fixed line revenues and continue to register declines due to pressures on traditional fixed line voice revenues as a result of the popularity of OTT service providers.

- *Superior Integrated Network.* With the most extensive telecommunications networks in the Philippines, we are able to offer a wide array of communications services. Part of our network transformation program included the continued upgrade of our fixed line network to an all IP-based NGN, the build-out of our transmission and FTTH network, the investment in increased international bandwidth capacity, and the expansion of our 3G, 4G LTE and wireless broadband networks in order to enhance our data and broadband reach and capacities. Our network investments include the upgrade of our IT platforms which are essential in enabling us to offer more relevant services to our customers. We have also started to invest in making our network 5G-ready.
- *Innovative Products and Services.* Powered by the fastest mobile network in the Philippines, our wireless business is able to launch the Gigafy Your Passion offers, which currently comes in three variants – Giga videos, Giga games and Giga stories. Further, VIH (through its subsidiaries Voyager and PayMaya) creates and launches platforms, services and solutions for emerging markets in the areas of digital financial services, access including sponsored data, data-in-sachets, digital marketing solutions, and the incubation of other new technologies. Through Voyager and PayMaya, VIH offers various digital financial services and financial technology solutions. VIH was deconsolidated from PCEV effective November 30, 2018.
- *Strong Strategic Relationships.* We have important strategic relationships with First Pacific, NTT DOCOMO and NTT Communications. We believe the technological support, international experience and management expertise made available to us through these strategic relationships will enable us to enhance our market leadership and provide/cross-sell a wider range of products and services.

Intellectual Property Rights

We do not own any material intellectual property rights apart from our brand names and logos. We are not dependent on patents, licenses or other intellectual property which are material to our business or results of operations, other than licenses to use the software that accompany most of our equipment purchases and licenses for certain contents used in VAS of our wireless business. See *Note 15 – Goodwill and Intangible Assets* to the accompanying audited consolidated financial statements in Item 7. “Financial Statements”.

Major Suppliers

Substantially all the telecommunications equipment thus far obtained in connection with our development programs have been purchased outside the Philippines, and we expect that a large portion of the equipment requirements of our future development programs will also be purchased from foreign sources.

The major vendor for Smart for its LTE deployment and 3G Modernization and Expansion Program are Huawei Technologies, Co. Ltd., and Ericsson Telecommunications, Inc. For mobile devices, Smart’s principal suppliers are Apple South Asia and Samsung Electronics Co., Ltd.

For PLDT’s continued expansion of optical transmission backbone and core equipment, Huawei Technologies, Co., Ltd. and CISCO Systems, Inc. are the principal suppliers of the hardware equipment and software component.

For FTTH and NGN/VVDSL, principal suppliers for equipment are Huawei Technologies, Co. Ltd. and Wuhan Fiberhome International Technology Co., Ltd. For the passive components of FTTH and NGN/VVDSL, the principal suppliers are Huawei Philippines and Wuhan Fiberhome International Technology Philippines, Inc. The engagement with these partners are on a full turnkey basis.

For Information Technology, PLDT engaged the services of Amdocs to undertake the modernization of IT applications, and introduction of digital technologies.

Governmental Regulations

As a public utility, we are subject to governmental regulations with respect to our operations, services, rates and ownership. We believe that we are in compliance with all applicable governmental regulations and that our relations with government regulators are satisfactory. For further discussion on governmental laws and regulations affecting our business, see Item 6. “Management’s Discussion and Analysis of Financial Condition and Results of Operations – Risks and Uncertainties – Risks Relating to Us – Our business is significantly affected by governmental laws and regulations, including regulations in respect of rates and taxes and laws relating to anti-competitive practices and monopoly.”

Compliance with Environmental Laws

In addition to our commitment to ensure compliance with relevant environmental laws and regulations, we have put in efforts to conduct our business in ways that promote environmental protection.

Resource management. We closely monitor and measure our energy conservation and resource consumption efficiency, which are among our performance key result areas, and seek to make improvements in the long term. Our Network Operations’ Energy Environment Safety and Health, or EESH, and Property and Facilities Management, or PFM, teams monitor the consumption of electricity, water, and fuel in our facilities and operations. Several energy conservation initiatives, such as replacing fluorescent lamps with LED lights, the use of more energy-efficient air-conditioning units and elevators, and the replacement of dysfunctional chillers were completed in 2019. Such initiatives helped us save almost 2M kWh of electricity in 2019.

Environmental impact management. Our PFM and EESH teams regularly monitor the status and performance of our facilities, equipment, and generator sets. They are also tasked to implement improvements to processes and mechanisms that would reduce and mitigate impacts on the environment. We work with our contractor partners in many areas, including monitoring waste air emission of generator sets, monitoring waste water quality, and the collection, hauling, treatment, and reporting of hazardous wastes. Our used lead-acid batteries are donated to the Balik Baterya Program of the Philippine Business for Social Progress for proper recycling and recovery of reusable components. The proceeds from this program help fund education initiatives, such as school-building projects.

Environmental compliance. We reaffirm our commitment in ensuring compliance with environmental regulations as part and parcel of our business operations. We have designated specially trained Pollution Control Officers to check our performance, ensure our compliance with the relevant Philippine environmental laws, and report our progress on a quarterly basis to the Department of Environment and Natural Resources Regional Offices. Our Vendor Management team also mandates our suppliers to strictly adhere with applicable national and local environmental regulations. The Company has not been subjected to any significant fine or regulatory action involving non-compliance with environmental regulations of the Philippines.

Employees and Labor Relations

As at December 31, 2019, we had 18,784 employees within the PLDT Group, with 12,877 and 5,907 employees in our fixed line and wireless businesses, respectively. PLDT had 10,649 employees as at December 31, 2019, of which 40% were rank and file employees, 54% were management/supervisory staff and 6% were executives.

We and our business units had the following employees as at December 31 of each of the following years:

	December 31,		
	2019	2018	2017
PLDT Group	18,784	17,222	17,779
Wireless	5,907	6,332	7,042
Fixed Line	12,877	10,890	10,737
LEC	10,878	8,772	6,832
Others	1,999	2,118	3,905
PLDT Only ⁽¹⁾	10,649	8,401	6,499

⁽¹⁾ The increase is a result of the review/rationalization of the headcount requirements to help improve productivity, efficiency and provide better customer experience.

PLDT has three employee unions, representing in the aggregate 9,099, or 48% of the employees of the PLDT Group. PLDT considers its relationship with our rank-and-file employees' union, our supervisors' union and our sales supervisors' union to be good.

Department of Labor and Employment, or DOLE, Compliance Order, or Order, to PLDT

In a series of orders including a Compliance Order issued by the DOLE Regional Office on July 3, 2017, which was partly affirmed by DOLE Secretary Silvestre Bello, III, or the DOLE Secretary, in his resolutions dated January 10, 2018 and April 24, 2018, the DOLE had previously ordered PLDT to regularize 7,344 workers from 38 of PLDT's third party service contractors. PLDT questioned these "regularization orders" before the CA, which led to the July 31, 2018 Decision.

In sum, the CA: (i) granted PLDT's prayer for an injunction against the regularization orders; (ii) set aside the regularization orders insofar as they declared that there was labor-only contracting of the following functions: (a) janitorial services, messengerial and clerical services; (b) information technology, or IT, firms and services; (c) IT support services, both hardware and software, and applications development; (d) back office support and office operations; (e) business process outsourcing or call centers; (f) sales; and (g) medical, dental engineering and other professional services; and (iii) remanded to the DOLE for further proceedings, the matters of: (a) determining which contractors, and which individuals deployed by these contractors, are performing installation, repair and maintenance of PLDT lines; and (b) properly computing monetary awards for benefits such as unpaid overtime or 13th month pay, which in the regularization orders amounted to Php51.8 million.

The CA agreed with PLDT's contention that the DOLE Secretary's regularization order was "tainted with grave abuse of discretion" because it did not meet the "substantial evidence" standards set out by the Supreme Court in landmark jurisprudence. The Court also said that the DOLE's appreciation of evidence leaned in favor of the contractor workers, and that the DOLE Secretary had "lost sight" of distinctions involving the labor law concepts of "control over means and methods," and "control over results."

On August 20, 2018, PLDT filed a motion seeking a partial reconsideration of that part of the CA decision, which ordered a remand to the Office of the Regional Director of the DOLE-National Capital Region of the matter of the regularization of individuals performing installation, repair and maintenance, or IRM, services. In its motion, PLDT argued that the fact-finding process contemplated by the Court's remand order is actually not part of the visitatorial power of the DOLE (i.e., the evidence that will need to be assessed cannot be gleaned by in the 'normal course' of a labor inspection) and is therefore, outside the jurisdiction of the DOLE Secretary.

PLDT also questioned that part of the CA ruling which seems to conclude that all IRM jobs are “regular.” It argued that the law recognizes that some work of this nature can be project-based or seasonal in nature. Instead of the DOLE, PLDT suggested that the National Labor Relations Commission – a tribunal with better fact-finding powers – take over from the DOLE to determine whether the jobs are in fact IRM, and if so, whether they are “regular” or can be considered project-based or seasonal.

Both adverse parties, the PLDT rank-and-file labor union *Manggagawa sa Komunikasyon ng Pilipinas*, or MKP, and the DOLE filed Motions for Reconsideration.

On February 14, 2019, the CA issued a Resolution denying all Motions for Reconsideration and upheld its July 31, 2018 Decision. After filing a Motion for Extension of Time on March 7, 2019, PLDT filed on April 5, 2019 a Petition for Review with the Supreme Court, questioning only one aspect of the CA decision i.e. its order remanding to the DOLE the determination of which jobs fall within the scope of “installation, repair and maintenance,” without however a qualification as to the “project” or “seasonal” nature of those engagements. The Supreme Court has consolidated PLDT’s Petition with the separate Petitions for Review filed by the DOLE and MKP. The consolidated case remains pending with the Supreme Court as of the date of the report.

Pension and Retirement Benefits

Defined benefit pension plans

PLDT has defined benefit pension plans, operating under the legal name “The Board of Trustees for the account of the Beneficial Trust Fund created pursuant to the Benefit Plan of PLDT Co.” and covering all of our permanent and regular employees. Certain subsidiaries of PLDT have not yet drawn up a specific retirement plan for its permanent or regular employees. For the purpose of complying with Revised PAS 19, pension benefit expense has been actuarially computed based on defined benefit plan.

Defined contribution plans

Smart’s and certain of its subsidiaries’ contributions to the plan are made based on the employees’ years of tenure and range from 5% to 10% of the employee’s monthly salary. Additionally, an employee has an option to make a personal contribution to the fund, at an amount not exceeding 10% of his monthly salary. The employer then provides an additional contribution to the fund ranging from 10% to 50% of the employee’s contribution based on the employee’s years of tenure. Although the plan has a defined contribution format, Smart and certain of its subsidiaries regularly monitor compliance with R.A. 7641. As at December 31, 2019 and 2018, Smart and certain of its subsidiaries were in compliance with the requirements of R.A. 7641.

See *Note 2 – Summary of Significant Accounting Policies – Retirement Benefits* and *Note 26 – Pension and Employee Benefits* to the accompanying audited consolidated financial statements in Item 7. “Financial Statements” for a discussion of our defined benefit pension plans and defined contribution plans.

Item 2. Description of Property

PLDT owns three office buildings located in Makati City and owns and operates 289 fixed line exchanges nationwide, of which 48 are located in the Metropolitan Manila area, including Digitel’s, three exchanges. The remaining 241 exchanges, including Digitel’s 32 exchanges, are located in cities and small municipalities outside the Metropolitan Manila area. We also own radio transmitting and receiving equipment used for international and domestic communications.

As at December 31, 2019, our principal properties, excluding property under construction, consisted of the following, based on net book values:

- 74% consisted of cable, wire and mobile facilities, including our DFON, subscriber cable facilities, inter-office trunking and toll cable facilities and mobile facilities;
- 11% consisted of central office equipment, including IGFs, pure national toll exchanges and combined local and toll exchanges;
- 6% consisted of information origination and termination equipment, including pay telephones and radio equipment installed for customers use, and cables and wires installed within customers’ premises;
- 5% consisted of land and improvements and buildings and improvements, which we acquired to house our telecommunications equipment, personnel, inventory and/or fleet; and
- 4% consisted of other work equipment.

On January 28, 2020, PLDT was authorized by the Board of Directors to negotiate and enter into a contract for the sale of Smart Towers Property. The transaction is deemed subject to the confirmation of the Philippine Competition Commission, or PCC, on Non-Coverage.

For more information on these properties, see *Note 9 – Property and Equipment* to the accompanying audited consolidated financial statements in Item 7. “Financial Statements”.

These properties are located in areas where our subscribers are being served. In our opinion, these properties are in good condition, except for ordinary wear and tear, and are adequately insured.

The majority of our connecting lines are above or under public streets and properties owned by others. For example, for many years, the PLDT Group has been using the power pole network of Meralco in Metropolitan Manila for PLDT’s fixed line aerial cables in this area pursuant to short-term lease agreements with Meralco with typically five-year and more recently one-year terms.

The PLDT Group has various lease contracts for periods ranging from one to thirty years covering certain offices, warehouses, cell sites, telecommunications equipment locations and various office equipment. For more information on the obligations relating to these properties and long-term obligations, see *Note 10 – Leases*, *Note 21 – Interest-bearing Financial Liabilities* and *Note 28 – Financial Assets and Liabilities* to the accompanying audited consolidated financial statements in Item 7. “Financial Statements”.

We expect that in 2020, cash from operating activities should enable us to increase the level of our capital expenditures for the continued expansion and upgrading of our network infrastructure. We expect to make additional investments in our core facilities to leverage existing technologies and increase capacity. Our current estimate for consolidated capital expenditures in 2020 is approximately Php83 billion. See Item 6. “Management’s Discussion and Analysis of Financial Condition and Results of Operations – Plans” for further discussion on our capital expenditures.

Item 3. Legal Proceedings

Except as disclosed in the following paragraphs, neither PLDT nor any of its subsidiaries is a party to, and none of their respective properties is subject to, any pending legal proceedings that PLDT considers to be potentially material to its and its subsidiaries’ business.

In the Matter of the Wilson Gamboa Case and Jose M. Roy III Petition

In *Wilson P. Gamboa vs. Finance Secretary Margarito B. Teves, et. al.* (G.R. No. 176579) (the “Gamboa Case”), the Supreme Court held that the term ‘capital’ in Section 11, Article XII of the 1987 Constitution refers only to “shares of stock entitled to vote in the election of directors” and thus only to voting common shares, and not to the “total outstanding capital stock (common and non-voting preferred shares).” It directed the Philippine SEC “to apply this definition of the term ‘capital’ in determining the extent of allowable foreign ownership in PLDT, and if there is a violation of Section 11, Article XII of the Constitution, to impose the appropriate sanctions under the law.” On October 9, 2012, the Supreme Court issued a Resolution denying with finality all Motions for Reconsideration of the respondents. The Supreme Court decision became final and executory on October 18, 2012.

On May 20, 2013, the Philippine SEC issued SEC Memorandum Circular No. 8, Series of 2013 - Guidelines on Compliance with the Filipino-Foreign Ownership Requirements Prescribed in the Constitution and/or Existing Laws by Corporations Engaged in Nationalized and Partly-Nationalized Activities, or MC No. 8, which provides that the required percentage of Filipino ownership shall be applied to BOTH (a) the total number of outstanding shares of stock entitled to vote in the election of directors; AND (b) the total number of outstanding shares of stock, whether or not entitled to vote in the election of directors.

On June 10, 2013, Jose M. Roy III filed before the Supreme Court a Petition for Certiorari against the Philippine SEC, Philippine SEC Chairman and PLDT, or the Petition, claiming: (1) that MC No. 8 violates the decision of the Supreme Court in the Gamboa Case, which according to the Petitioner required that (a) the 60-40 ownership requirement be imposed on “each class of shares” and (b) Filipinos must have full beneficial ownership of 60% of the outstanding capital stock of those corporations subject to that 60-40 Filipino-foreign ownership requirement; and (2) that the PLDT Beneficial Trust Fund is not a Filipino-owned entity and consequently, the corporations owned by PLDT Beneficial Trust Fund, including BTFHI, which owns 150 million voting preferred shares in PLDT, cannot be considered a Filipino-owned corporation. PLDT and Philippine SEC sought the dismissal of the Petition.

In July 16, 2013, Wilson C. Gamboa, Jr. et. al. filed a Motion for Leave to file a Petition-in-Intervention dated July 16, 2013, which the Supreme Court granted on August 6, 2013. The Petition-in-Intervention raised identical arguments and issues as those in the Petition.

The Supreme Court, in its November 22, 2016 decision, dismissed the Petition and Petition-In-Intervention and upheld the validity of MC No. 8. In the course of discussing the Petition, the Supreme Court expressly rejected petitioners’ argument that the 60% Filipino ownership requirement for public utilities must be applied to each class of shares. According to the Court, the position is “simply beyond the literal text and contemplation of Section 11, Article XII of the 1987 Constitution” and that the petitioners’ suggestion would “effectively and unwarrantedly amend or change” the Court’s ruling in the Gamboa Case. In categorically rejecting the petitioners’ claim, the Court declared and stressed that its ruling in the Gamboa Case “did NOT make any definitive ruling that the 60% Filipino ownership requirement was intended to apply to each class of shares.” On the contrary, according to the Court, “nowhere in the discussion of the term ‘capital’ in Section 11, Article XII of the 1987 Constitution in the Gamboa Decision did the Court mention the 60% Filipino equity requirement to be applied to each class of shares.”

In respect of ensuring Filipino ownership and control of public utilities, the Court noted that this is already achieved by the requirements under MC No. 8. According to the Court, “since Filipinos own at least 60% of the outstanding shares of stock entitled to vote directors, which is what the Constitution precisely requires, then the Filipino stockholders control the corporation – i.e., they dictate corporate actions and decisions...”

The Court further noted that the application of the Filipino ownership requirement as proposed by petitioners “fails to understand and appreciate the nature and features of stocks and financial instruments” and would “greatly erode” a corporation’s “access to capital – which a stock corporation may need for expansion, debt relief/repayment, working capital requirement and other corporate pursuits.” The Court reaffirmed that “stock corporations are allowed to create shares of different classes with varying features” and that this “is a flexibility that is granted, among others, for the corporation to attract and generate capital (funds) from both local and foreign capital markets” and that “this access to capital – which a stock corporation may need for expansion, debt relief/repayment, working capital requirement and other corporate pursuits – will be greatly eroded with further unwarranted limitations that are not articulated in the Constitution.” The Court added that “the intricacies and delicate balance between debt instruments (liabilities) and equity (capital) that stock corporations need to calibrate to fund their business requirements and achieve their financial targets are better left to the judgment of their boards and officers, whose bounden duty is to steer their companies to financial stability and profitability and who are ultimately answerable to their shareholders.”

The Court went on to say that “a too restrictive definition of ‘capital’, one that was never contemplated in the Gamboa Decision, will surely have a dampening effect on the business milieu by eroding the flexibility inherent in the issuance of preferred shares with varying terms and conditions. Consequently, the rights and prerogatives of the owners of the corporation will be unwarrantedly stymied.” Accordingly, the Court said that the petitioners’ “restrictive interpretation of the term ‘capital’ would have a tremendous adverse impact on the country as a whole – and to all Filipinos.”

Petitioner Jose M. Roy III filed a Motion for Reconsideration of the Supreme Court Decision dated November 22, 2016. On April 18, 2017, the Supreme Court denied with finality Petitioner’s Motion for Reconsideration. On August 5, 2017, PLDT received a copy of the Entry of Judgment.

See *Note 27 – Provisions and Contingencies – In the Matter of the Wilson Gamboa Case and Jose M. Roy III Petition to the accompanying audited consolidated financial statements in Item 7. “Financial Statements” for further discussion.*

Local Business and Franchise Taxes

Pursuant to a decision of the Supreme Court on March 25, 2003 in the case of *PLDT vs. City of Davao* declaring PLDT not exempt from the local franchise tax, PLDT started paying local franchise tax to various Local Government Units, or LGUs. As at December 31, 2019, PLDT has no contested LGU assessments for franchise taxes based on gross receipts received or collected for services within their respective territorial jurisdiction.

Smart and DMPI currently face various local business and franchise tax assessments by different local government units, while Digital is discussing with various local government units as to settlement of its franchise tax and real property tax liabilities.

See *Note 27 – Provisions and Contingencies* to the accompanying audited consolidated financial statements in Item 7. “Financial Statements” for further discussion.

Arbitration with Eastern Telecommunications Philippines, Inc., or ETPI

Since 1990 up to the present, PLDT and ETPI have been engaged in legal proceedings involving a number of issues in connection with their business relationship. Among PLDT’s claims against ETPI are ETPI’s alleged uncompensated bypass of PLDT’s systems from July 1, 1998 to November 28, 2003; unpaid access charges from July 1, 1999 to November 28, 2003; and non-payment of applicable rates for Off-Net and On-Net traffic from January 1, 1999 to November 28, 2003 arising from ETPI’s unilateral reduction of its rates for the Philippines-Hong Kong traffic stream through Hong Kong REACH-ETPI circuits. ETPI’s claims against PLDT, on the other hand, involve an alleged Philippines-Hong Kong traffic shortfall for the period July 1, 1998 to November 28, 2003; unpaid share of revenues generated from PLDT’s activation of additional growth circuits in the Philippines-Singapore traffic stream for the period July 1, 1999 to November 28, 2003; under reporting of ETPI share of revenues under the terms of a Compromise Agreement for the period January 1, 1999 to November 28, 2003 (which ETPI is seeking to retroact to February 6, 1990); lost revenues arising from PLDT’s blocking of incoming traffic from Hong Kong from November 1, 2001 up to November 2003; and lost revenues arising from PLDT’s circuit migration from January 1, 2001 up to December 31, 2001.

While the parties have entered into Compromise Agreements in the past (one in February 1990 and another in March 1999), said agreements have not put to rest the issues between them. To avoid protracted litigation and to preserve their business relationship, PLDT and ETPI agreed to submit their differences and issues to voluntary arbitration. On April 16, 2008, PLDT and ETPI signed an Arbitration Settlement Agreement and submitted their respective Statement of Claims and Answers. Subsequent to such submissions, PLDT and ETPI agreed to suspend the arbitration proceedings. ETPI’s total claim against PLDT is about Php2.9 billion while PLDT’s total claim against ETPI is about Php2.8 billion.

In an agreement, PLDT and Globe have agreed that they shall cause ETPI, within a reasonable time after May 30, 2016, to dismiss Civil Case No. 17694 entitled *Eastern Telecommunications Philippines, Inc. vs. Philippine Long Distance Telephone Company*, and all related or incidental proceedings (including the voluntary arbitration between ETPI and

PLDT), and PLDT, in turn, simultaneously, shall withdraw its counterclaims against ETPI in the same entitled case, all with prejudice.

See *Note 27 – Provisions and Contingencies – Arbitration with Eastern Telecommunications Philippines, Inc., or ETPI* to the accompanying audited consolidated financial statements in Item 7. “Financial Statements” for further discussion.

Attys. Baquiran and Tecson vs. NTC, et al.

This is a Petition for Mandamus filed on October 23, 2018 by Attys. Joseph Lemuel Baligod Baquiran and Ferdinand C. Tecson against the Respondents NTC, the PCC, Liberty, BellTel, Globe, PLDT and Smart. Briefly, the case involves the 700 MHz frequency, among others, or Subject Frequencies, that was originally assigned to Liberty and which eventually became subject of the Co-Use Agreement between Globe, on the one hand, and PLDT and Smart, on the other.

The Petition prayed that: (a) a Temporary Restraining Order, or TRO, /Writ of Preliminary Injunction, or WPI, be issued to enjoin and restrain Globe, PLDT and Smart from utilizing and monopolizing the Subject Frequencies and the NTC from bidding out or awarding the frequencies returned by PLDT, Smart and Globe; (b) the NTC’s conditional assignment of the Subject Frequencies be declared unconstitutional, illegal and void; (c) alternatively, Liberty and its successors-in-interest be divested of the Subject Frequencies and the same be reverted to the State; (d) Liberty be declared to have transgressed Section 11 (1), Article XVI of the Constitution; (e) Liberty and its parent company be declared to have contravened paragraph 2 of Section 10, Article XII of the 1987 Constitution; (f) Liberty’s assignment of the Subject Frequencies to BellTel be declared illegal and void; (g) the Co-Use Agreement be declared invalid; (h) the NTC be found to have unlawfully neglected the performance of its positive duties; (i) the PCC be found to have unlawfully neglected the performance of its positive duties; (j) a Writ of Mandamus be issued commanding the NTC to revoke the Co-Use Agreement, recall the Subject Frequencies in favor of the State, and make the same available to the best qualified telecommunication players; (k) a Writ of Mandamus be issued commanding the PCC to conduct a full review of PLDT’s and Globe’s acquisition of all issued and outstanding shares of Vega Telecom; (l) an Investigation of NTC be ordered for possible violation of Section 3 (e) of R.A. 3019 and other applicable laws; and (m) the said TRO/WPI be made permanent.

Essentially, petitioners contend that the NTC’s assignments of the Subject Frequencies of Liberty were void for failing to comply with Section 4 (c) of R.A. 7925 which essentially states that “the radio frequency spectrum is a scarce public resource xxx.” Even assuming the assignments were valid, Liberty should be deemed divested of the same by operation of law (with the Subject Frequencies reverted to the State), considering that it underutilized or never utilized the Subject Frequencies in violation of the terms and conditions of the assignment. Assuming further that the NTC’s assignments of the Subject Frequencies were valid and that Liberty was not divested of the same by operation of law, still, Liberty did not validly assign the Subject Frequencies to BellTel because of the absence of Congressional approval. Petitioners conclude that since the assignments of the Subject Frequencies from the NTC to Liberty, and from Liberty to BellTel, were all illegal and void, it follows that the Subject Frequencies could not serve as the object of the Co-Use Agreement between PLDT, Smart and Globe.

On November 23, 2018, PLDT filed an Entry of Appearance on behalf of PLDT and Smart. On January 17, 2019, PLDT and Smart filed their Comment. Essentially, the Comment raised the following arguments: *first*, that the requisites for judicial review and for a mandamus petition are lacking; *second*, that there was no need for Liberty to obtain prior Congressional approval before it assigned the Subject Frequencies to BellTel; and *third*, that the Co-Use Agreement is valid and approved by the NTC, and did not violate the Constitution or any laws.

On January 15, 2019, PLDT received a copy of BellTel’s Comment/Opposition dated January 10, 2019. On February 12, 2019, PLDT received a copy of Globe Telecom, Inc.’s, or Globe’s Comment/Opposition dated January 21, 2019. In a Resolution dated March 19, 2019, the Supreme Court noted the aforesaid filings. As at the date of the report, however, PLDT has not received any pleadings from the OSG on behalf of the public respondents.

On June 18, 2019, the Supreme Court issued a Resolution consolidating this case with G.R. No. 230798 (Philippine Competition Commission vs. CA [Twelfth Division] and PLDT; Globe, intervenor) and G.R. No. 234969 (Philippine Competition Commission vs. PLDT and Globe). The consolidated cases were assigned to the Court in charge of G.R. No. 230798, the case with the lowest docket number.

See *Note 27 – Provisions and Contingencies – Attys. Baquiran and Tecson vs. NTC, et al.* to the accompanying audited consolidated financial statements in Item 7. “Financial Statements” for further discussion.

Item 4. Submission of Matters to a Vote of Security Holders

There were no matters submitted to a vote of security holders during the fourth quarter of the fiscal year covered by this annual report.

PART II – OPERATIONAL AND FINANCIAL INFORMATION

Item 5. Market for Registrant’s Common Equity and Related Stockholder Matters

Market Information

Common Capital Stock and ADSs

The shares of common stock of PLDT are listed and traded on the PSE under the symbol of “TEL”. On October 19, 1994, an ADR facility was established, pursuant to which Citibank, N.A., as the depository, issued ADRs evidencing ADSs with each ADS representing one PLDT common share with a par value of Php5.00 per share. Effective February 10, 2003, PLDT appointed JP Morgan Chase Bank as successor depository of PLDT’s ADR facility. The ADSs are listed on the NYSE and are traded on the NYSE under the symbol of “PHI”.

The public ownership level of PLDT common shares listed on the PSE as at February 29, 2020 is 42.18%.

As at February 29, 2020, 10,091 stockholders were Philippine persons and held approximately 54.67% of PLDT’s common capital stock. In addition, as at February 29, 2020, there were a total of approximately 19.2 million ADSs outstanding, substantially all of which PLDT believes were held in the United States by 237 holders.

For the period from January 1 to February 29, 2020, a total of 5.76 million shares of PLDT’s common capital stock were traded on the PSE. During the same period, the volume of trading was 3.42 million ADSs on the NYSE.

High and low sales prices for PLDT’s common shares on the PSE and ADSs on the NYSE for each of the full quarterly period during 2019 and 2018 and for the first three months of 2020 were as follows:

	Philippine Stock Exchange		New York Stock Exchange	
	High	Low	High	Low
2020				
First Quarter	Php1,112.00	Php805.00	US\$21.61	US\$15.91
January	1,112.00	988.00	21.61	19.09
February	1,109.00	980.00	21.11	18.54
Through March 30	1,095.00	805.00	20.89	15.91
2019				
First Quarter	1,386.00	1,015.00	26.33	19.36
Second Quarter	1,373.00	1,102.00	25.72	21.10
Third Quarter	1,295.00	1,080.00	25.47	20.44
Fourth Quarter	1,146.00	978.50	22.23	19.25
2018				
First Quarter	1,601.00	1,384.00	32.66	26.97
Second Quarter	1,536.00	1,100.00	29.07	21.58
Third Quarter	1,447.00	1,252.00	27.65	23.34
Fourth Quarter	1,448.00	1,125.00	27.00	20.49

Holders

As at February 29, 2020, there were 11,584 holders of record of PLDT's common shares. Listed below were the top 20 common shareholders, including their nationalities, the number of shares held, the amount of their holdings, and the approximate percentages of their respective shareholdings to PLDT's total outstanding common stocks:

Name of Holder of Record	Nationality	Number of Shares Held	Amount of Holding	Approximate % to Total Outstanding Common Stock
1. PCD Nominee Corporation	Various – Foreign	46,030,523	Php230,152,615	36.51
	Various – Filipino	32,857,621		
2. Philippine Telecommunications Investment Corporation	Filipino	26,034,263	130,171,315	12.05
3. NTT DOCOMO, INC.	Japanese	22,796,902	113,984,510	10.55
4. Metro Pacific Resources, Inc.	Filipino	21,556,676	107,783,380	9.98
5. JG Summit Holdings, Inc.	Filipino	17,208,753	86,043,765	7.96
6. J. P. Morgan Hong Kong Nominees Limited	Chinese	15,801,619	79,008,095	7.31
7. NTT Communications Corporation	Japanese	12,633,487	63,167,435	5.85
8. Social Security System, or SSS	Filipino	9,613,281	48,066,405	4.45
9. Pan-Malayan Management & Inv Corp.	Filipino	781,124	3,905,620	0.36
10. Malayan Insurance Co., Inc.	Filipino	288,000	1,440,000	0.13
11. Manuel V. Pangilinan	Filipino	265,611	1,328,055	0.12
12. James L. Go	Filipino	135,914	679,570	0.06
13. Alfonso T. Yuchengco	Filipino	118,458	592,290	0.05
14. Albert F. &/or Margaret Gretchen V. del Rosario	Filipino	106,780	533,900	0.05
15. Edward A. Tortorici &/or Anita R. Tortorici	American	96,874	484,370	0.04
16. Express Holdings, Inc.	Filipino	86,723	433,615	0.04
17. Enrique T. Yuchengco, Inc.	Filipino	59,868	299,340	0.03
18. Mechatrends Contractors Corporation	Filipino	50,000	250,000	0.02
19. JDC Investment Realty Enterprises, Inc.	Filipino	47,708	238,540	0.02
20. Hare & Company	American	34,511	172,555	0.02
		<u>206,604,696</u>	<u>Php1,033,023,480</u>	

Dividends

The following table shows the dividends declared to common shareholders from the earnings for the years ended December 31, 2017, 2018 and 2019:

Earnings	Date			Amount	
	Approved	Record	Payable	Per share	Total Declared (in millions)
2017	August 10, 2017	August 25, 2017	September 8, 2017	Php48	Php10,371
2017	March 27, 2018	April 13, 2018	April 27, 2018	28	6,050
				76	16,421
2018	August 9, 2018	August 28, 2018	September 11, 2018	36	7,778
2018	March 21, 2019	April 4, 2019	April 23, 2019	36	7,778
				72	15,556
2019	August 8, 2019	August 27, 2019	September 10, 2019	36	7,778
2019	March 5, 2020	March 19, 2020	April 3, 2020	39	8,426
				Php75	Php16,204

Item 6. Management's Discussion and Analysis of Financial Condition and Results of Operations

The following discussion and analysis of our financial condition and results of operations should be read in conjunction with our consolidated financial statements and the related notes as at December 31, 2019 and 2018 and for each of the three years ended December 31, 2019, 2018 and 2017 included elsewhere in this Annual Report. This discussion contains forward-looking statements that reflect our current views with respect to future events and our future financial performance. These statements involve risks and uncertainties, and our actual results may differ materially from those anticipated in these forward-looking statements.

Selected Financial Data and Key Performance Indicators

	Years ended December 31,		
	2019	2018	2017
Income Statement Data:			
Revenues	Php169,187	Php162,914	Php158,933
Service revenues	161,355	152,369	150,172
Non-service revenues	7,832	10,545	8,761
Expenses	129,786	149,141	149,422
Other income (expenses) - net	(7,065)	9,042	5,058
Income before income tax	32,336	22,815	14,569
Net income	22,786	18,973	13,466
Core income	25,111	25,855	27,668
Telco core income	27,080	24,047	23,576
EBITDA	79,815	64,027	66,174
EBITDA margin ⁽¹⁾	49%	42%	44%
Reported earnings per common share:			
Basic	103.97	87.28	61.61
Diluted	103.97	87.28	61.61
Core earnings per common share:			
Basic	115.95	119.39	127.79
Diluted	115.95	119.39	127.79
Other Data:			
Net cash provided by operating activities	69,392	61,116	56,114
Net cash used in investing activities	(84,316)	(25,054)	(21,060)
Payment for purchase of property and equipment	89,701	48,771	37,432
Net cash used in financing activities	(11,613)	(18,144)	(40,319)
Operational Data			
Number of mobile subscribers	73,118,155	60,499,017	58,293,908
Prepaid	70,721,789	58,178,978	55,776,646
Postpaid	2,396,366	2,320,039	2,517,262
Number of fixed line subscribers	2,765,209	2,710,972	2,663,210
Number of broadband subscribers	2,161,484	2,025,563	1,950,881
Fixed Line broadband	1,931,333	1,812,037	1,713,527
Fixed Wireless broadband	230,151	213,526	237,354
Number of employees:	18,784	17,222	17,779
Fixed Line	12,877	10,890	10,737
LEC	10,878	8,772	6,832
Others	1,999	2,118	3,905
Wireless	5,907	6,332	7,042

⁽¹⁾ EBITDA margin for the year is measured as EBITDA from continuing operations divided by service revenues.

In 2019, we adopted PFRS 16, *Leases*, which sets out the principles for the recognition, measurement, presentation and disclosure of leases and requires lessees to account for all the leases under single on-balance sheet model similar to the accounting for finance leases under PAS 17, *Leases*. PFRS 16 supersedes PAS 17, *Leases*, Philippine Interpretation to IFRIC 4, *Determining whether an Arrangement contains a Lease*, Philippine Interpretation to SIC-15, *Operating Leases-Incentives* and Philippine Interpretation to SIC-27, *Evaluating the Substance of Transactions Involving the Legal Form of a Lease*. We applied the modified retrospective approach upon adoption of PFRS 16 on January 1, 2019 and applied the standard to contracts that were previously identified as leases applying PAS 17 and Philippine Interpretation IFRIC 4, *Determining whether an Arrangement contains a Lease*. Under this approach, the cumulative effect arising from the transition was recognized as an adjustment to the opening balance of retained earnings. Accordingly, comparative information for prior periods were not restated.

In 2018, we have adopted PFRS 9, *Financial Instruments*, and PFRS 15, *Revenues from Contracts with Customers*. PFRS 9 replaces PAS 39, *Financial Instruments: Recognition and Measurement*, and all previous versions of PFRS 9. The standard introduces new requirements for classification and measurement, impairment and hedge accounting. PFRS 15 supersedes PAS 11, *Construction Contracts*, PAS 18, *Revenue*, and related interpretations and it applies to all revenue arising from contracts with customers, unless those contracts are in the scope of other standards. We applied the modified retrospective method upon adoption of PFRS 9 and PFRS 15 with the date of initial application of January 1, 2018. Under this method, the cumulative effect arising from the transition was recognized as an adjustment to the opening balance of retained earnings. Accordingly, comparative information for prior periods were not restated.

See *Note 2 – Summary of Significant Accounting Policies* and *Note 3 - Management’s Use of Accounting Judgments, Estimates and Assumptions* to the accompanying audited consolidated financial statements in Item 7. “Financial Statements” for further discussion.

Overview

We are one of the leading telecommunications service providers in the fixed line, wireless and broadband markets in the Philippines, in terms of both subscribers and revenues. Through our three principal business segments (Wireless, Fixed Line and Others), we offer a large and diverse range of telecommunications services across the Philippines’ most extensive fiber optic backbone and wireless and fixed line networks. See *Note 4 – Operating Segment Information* to the accompanying audited consolidated financial statements in Item 7. “Financial Statements” for further information on each of these segments.

Key performance indicators and drivers that our management uses to monitor and direct the operation of our businesses include, among others, the general economic conditions in the Philippines; market trends such as customer demands, behavior and satisfaction parameters; technological developments; network performance (in terms of speed, coverage and capacity); market share and profitability.

In addition, our results of operations and financial position are increasingly affected by fluctuations of the Philippine peso against the U.S. dollar.

Performance Indicators

We use a number of non-GAAP performance indicators to monitor financial performance. These are summarized below and discussed later in this report.

EBITDA

EBITDA is measured as net income excluding depreciation and amortization, amortization of intangible assets, asset impairment on noncurrent assets, financing costs, interest income, equity share in net earnings (losses) of associates and joint ventures, foreign exchange gains (losses) – net, gains (losses) on derivative financial instruments – net, provision for (benefit from) income tax and other income (expenses) – net. EBITDA is monitored by the management for each business unit separately for purposes of making decisions about resource allocation and performance assessment. EBITDA is presented because our management believes that it is widely used by investors in their analysis of the performance of PLDT and can assist them in their comparison of PLDT’s performance with those of other companies in the technology, media and telecommunications sector. We also present EBITDA because it is used by some investors as a way to measure a company’s ability to incur and service debt, make capital expenditures and meet working capital requirements. Companies in the technology, media and telecommunications sector have historically reported EBITDA as a supplement to financial measures in accordance with PFRS. EBITDA should not be considered as an alternative to net income as an indicator of our performance, nor should EBITDA be considered as an alternative to cash flows from operating activities, as a measure of liquidity or as an alternative to any other measure determined in accordance with PFRS. Unlike net income, EBITDA does not include depreciation and amortization or financing costs and, therefore, does not reflect current or future capital expenditures or the cost of capital. We compensate for these limitations by using EBITDA as only one of several comparative tools, together with PFRS-based measurements, to assist in the evaluation of operating performance. Such PFRS-based measurements include income before income tax, net income, and operating, investing and financing cash flows. We have significant uses of cash flows, including capital expenditures, interest payments, debt principal repayments, taxes and other non-recurring charges, which are not reflected in EBITDA. Our calculation of EBITDA may be different from the calculation methods used by other companies and, therefore, comparability may be limited. A reconciliation of our consolidated net income to our consolidated EBITDA for the years ended December 31, 2019, 2018 and 2017 is presented in *Note 4 – Operating Segment Information* to the accompanying audited consolidated financial statements in Item 7. “Financial Statements”.

Core Income

Core income is measured as net income attributable to equity holders of PLDT (net income less net income attributable to non-controlling interests), excluding foreign exchange gains (losses) – net, gains (losses) on derivative financial instruments – net (excluding hedge costs), asset impairment on noncurrent assets, nonrecurring gains (losses), net of tax effect of aforementioned adjustments, as applicable, and similar adjustments to equity share in net earnings (losses) of associates and joint ventures. Core income results are monitored by the management for each business unit separately for purposes of making decisions about resource allocation and performance assessment. Also, core income as adjusted for the effect of accelerated depreciation, asset sales and share in Voyager losses, or telco core income, is used by the management as a basis for determining the level of dividend payouts to shareholders and a basis for granting incentives to employees. Core income should not be considered as an alternative to income before income tax or net income determined in accordance with PFRS as an indicator of our performance. Unlike net income, core income does not include foreign exchange gains and losses, gains and losses on derivative financial instruments, asset impairments and non-recurring gains and losses. We compensate for these limitations by using core income as only one of several comparative tools, together with PFRS-based measurements, to assist in the evaluation of operating performance. Such PFRS-based measurements include income before income tax and net income. Our calculation of core income may be different from the calculation methods used by other companies and, therefore, comparability may be limited. A reconciliation of our consolidated net income to our consolidated core income for the years ended December 31, 2019,

2018 and 2017 is presented in *Note 4 – Operating Segment Information* to the accompanying audited consolidated financial statements in Item 7. “Financial Statements”.

Management’s Financial Review

We use our EBITDA and our core income to assess our operating performance; a reconciliation of our consolidated net income to our consolidated EBITDA and our consolidated core income for the years ended December 31, 2019, 2018 and 2017 is set forth below.

The following table shows the reconciliation of our consolidated net income to our consolidated EBITDA for the years ended December 31, 2019, 2018 and 2017:

	2019	2018	2017
Consolidated net income	Php22,786	(in millions) Php18,973	Php13,466
Add (deduct) adjustments:			
Depreciation and amortization	39,656	47,240	51,915
Provision for income tax	9,550	3,842	1,103
Financing costs – net	8,553	7,067	7,370
Equity share in net losses (earnings) of associates and joint ventures	1,535	87	(2,906)
Amortization of intangible assets	758	892	835
Losses (gains) on derivative financial instruments – net	284	(1,086)	(533)
Impairment of investments	34	172	2,562
Noncurrent asset impairment	—	2,122	3,913
Foreign exchange losses (gains) – net	(424)	771	411
Interest income	(1,745)	(1,943)	(1,412)
Other income – net	(1,172)	(14,110)	(10,550)
Total adjustments	57,029	45,054	52,708
EBITDA	Php79,815	Php64,027	Php66,174

The following table shows the reconciliation of our consolidated net income to our consolidated core income for the years ended December 31, 2019, 2018 and 2017:

	2019	2018	2017
Consolidated net income	Php22,786	(in millions) Php18,973	Php13,466
Add (deduct) adjustments:			
Manpower rightsizing program	3,296	1,703	—
Unrealized losses in fair value of investments	675	1,154	—
Losses (gains) on derivative financial instruments – net, excluding hedge costs	233	(1,135)	(724)
Impairment of investments	34	172	2,562
Depreciation due to shortened life of property and equipment	—	4,564	12,816
Noncurrent asset impairment	—	2,122	3,913
Investment written-off	—	362	—
Other nonrecurring income	—	(1,018)	—
Core income adjustment on equity share in net losses (gains) of associates and joint ventures	(226)	23	60
Net income attributable to noncontrolling interests	(265)	(57)	(95)
Foreign exchange losses (gains) – net	(424)	771	411
Net tax effect of aforementioned adjustments	(998)	(1,779)	(4,741)
Total adjustments	2,325	6,882	14,202
Consolidated core income	Php25,111	Php25,855	Php27,668

The following table shows the reconciliation of our consolidated basic and diluted earnings per share, or EPS, attributable to common equity holders of PLDT to our consolidated basic and diluted core EPS for the years ended December 31, 2019, 2018 and 2017:

	2019		2018		2017	
	Basic	Diluted	Basic	Diluted	Basic	Diluted
Consolidated EPS attributable to common equity holders of PLDT	Php103.97	Php103.97	Php87.28	Php87.28	Php61.61	Php61.61
Add (deduct) adjustments:						
Manpower rightsizing program	10.73	10.73	5.52	5.52	—	—
Unrealized losses in fair value of investments	3.12	3.12	5.34	5.34	—	—
Losses (gains) on derivative financial instruments – net, excluding hedge costs	0.75	0.75	(4.08)	(4.08)	(2.34)	(2.34)
Impairment of investment	0.16	0.16	0.80	0.80	11.86	11.86
Depreciation due to shortened life of property and equipment	—	—	14.06	14.06	41.52	41.52
Noncurrent asset impairment	—	—	9.82	9.82	13.12	13.12
Investment written-off	—	—	1.68	1.68	—	—
Others	—	—	(4.71)	(4.71)	—	—
Core income adjustment on equity share in net losses (gains) of associates and joint ventures	(1.05)	(1.05)	0.11	0.11	0.28	0.28
Foreign exchange losses (gains) – net	(1.73)	(1.73)	3.57	3.57	1.74	1.74
Total adjustments	11.98	11.98	32.11	32.11	66.18	66.18
Consolidated core EPS	Php115.95	Php115.95	Php119.39	Php119.39	Php127.79	Php127.79

Results of Operations

The table below shows the contribution by each of our business segments to our consolidated revenues, expenses, other income (expense), income (loss) before income tax, provision for (benefit from) income tax, net income (loss)/segment profit (loss), EBITDA, EBITDA margin and core income for the years ended December 31, 2019, 2018 and 2017. In each of the years ended December 31, 2019, 2018 and 2017, majority of our revenues are derived from our operations within the Philippines. Our revenues derived from outside the Philippines consist primarily of revenues from incoming international calls to the Philippines.

In 2019, we reclassified our revenues and expenses to reflect the adjustments on transactions between our wholly-owned subsidiaries resulting to a decrease in service revenues and interconnection costs. The adjustments had no impact on our net income, EBITDA, EPS and the consolidated statements of financial position and cash flows. In 2018, we reclassified the presentation of VIH from wireless to other business resulting from the transfer from Smart to PCEV in April 2018. In 2017, we changed the presentation of our expenses by combining certain line items to simplify our reporting while maintaining the same level of information. Accordingly, we changed prior years' financial information to conform with the current years' presentation in order to provide a clear comparison.

	Wireless	Fixed Line	Others ⁽¹⁾	Inter-segment Transactions	Consolidated
	(in millions)				
For the year ended December 31, 2019					
Revenues	Php96,906	Php89,406	—	(Php17,125)	Php169,187
Expenses	74,359	72,385	101	(17,059)	129,786
Other income (expenses) - net	(5,023)	(259)	(2,112)	329	(7,065)
Income (loss) before income tax	17,524	16,762	(2,213)	263	32,336
Provision for (benefit from) income tax	4,423	5,341	(444)	230	9,550
Net income (loss)/Segment profit (loss)	13,101	11,421	(1,769)	33	22,786
EBITDA	52,789	33,162	(101)	(6,035)	79,815
EBITDA margin ⁽²⁾	58%	38%	—	—	49%
Core income	13,685	12,531	(1,151)	46	25,111
For the year ended December 31, 2018					
Revenues	89,929	85,222	1,138	(Php13,375)	162,914
Expenses	82,246	77,782	4,093	(14,980)	149,141
Other income (expenses) - net	(625)	(45)	12,099	(2,387)	9,042
Income (loss) before income tax	7,058	7,395	9,144	(782)	22,815
Provision for income tax	1,333	1,336	1,173	—	3,842
Net income (loss)/Segment profit (loss)	5,725	6,059	7,971	(782)	18,973
EBITDA	34,235	30,875	(2,688)	1,605	64,027
EBITDA margin ⁽²⁾	41%	38%	—	—	42%
Core income	9,760	6,925	9,952	(782)	25,855
For the year ended December 31, 2017					
Revenues	92,572	78,341	1,279	(13,259)	159,926
Expenses	97,651	63,864	2,774	(14,867)	149,422
Other income (expenses) - net	77	(3,323)	10,530	(2,226)	5,058
Income (loss) before income tax	(5,002)	11,154	9,035	(618)	14,569
Provision for (benefit from) income tax	(2,787)	3,680	210	—	1,103
Net income (loss)/Segment profit (loss)	(2,215)	7,474	8,825	(618)	13,466
EBITDA	36,395	29,478	(1,307)	1,608	66,174
EBITDA margin ⁽²⁾	42%	39%	-104%	—	44%
Core income	9,812	8,846	9,628	(618)	27,668

⁽¹⁾ Other business segment includes results of operations of Voyager Innovations Holdings, Pre. Ltd., or VIH, resulting from the transfer from Smart to PCEV in April 2018. Consequently, we reclassified the presentation of VIH from Wireless to Other business segment. Effective November 30, 2018, VIH was deconsolidated from PCEV.

⁽²⁾ EBITDA margin for the year is measured as EBITDA from continuing operations divided by service revenues.

Years ended December 31, 2019 and 2018

On a Consolidated Basis

Revenues

We reported consolidated revenues of Php169,187 million in 2019, an increase of Php6,273 million, or 4%, as compared with Php162,914 million in 2018, primarily due to higher revenues from data services in our Wireless and Fixed Line business segments, and higher revenues from voice services in our Fixed Line business segment, partially offset by lower revenues from voice, SMS and home broadband services in our Wireless business segment, and lower non-service revenues in our Wireless and Fixed Line business segments, as well as lower revenues from our Other business segment due to the deconsolidation of VIH in November 2018.

Our consolidated service revenues of Php161,355 million in 2019, increased by Php8,986 million, or 6%, from Php152,369 million in 2018, while our consolidated non-service revenues of Php7,832 million in 2019, decreased by Php2,713 million, or 26%, from Php10,545 million in 2018.

Consolidated service revenues, net of interconnection costs, amounted to Php157,717 million in 2019, an increase of Php10,841 million, or 7%, from Php146,876 million in 2018.

In compliance with Memorandum Circular No. 05-07-2018 issued by the National Telecommunications Commission, or NTC, the interconnection rate for our voice calls was reduced to Php0.50 per minute from Php2.50 per minute, and the rate for SMS was down to Php0.05 per message from Php0.15 per message effective September 1, 2018. The following table shows the breakdown of our consolidated revenues by services for the years ended December 31, 2019 and 2018:

	Wireless	Fixed Line	Others	Inter-segment Transactions	Consolidated
(in millions)					
For the year ended December 31, 2019					
Service Revenues					
Wireless	Php90,661			(Php2,418)	Php88,243
Mobile	88,865			(1,042)	87,823
Home broadband	85			—	85
MVNO and others	1,711			(1,376)	335
Fixed Line		Php87,819		(14,707)	73,112
Data		60,764		(7,977)	52,787
Corporate data and ICT		32,315		(7,835)	24,480
Home broadband		28,449		(142)	28,307
Voice		26,267		(6,377)	19,890
Miscellaneous		788		(353)	435
Others			—	—	—
Total Service Revenues	90,661	87,819	—	(17,125)	161,355
Non-Service Revenues					
Sale of computers, phone units, mobile handsets and broadband data modems	6,245	1,223	—	(30)	7,438
Point-product sales	—	364	—	30	394
Total Non-Service Revenues	6,245	1,587	—	—	7,832
Total Revenues	96,906	89,406	—	(17,125)	169,187
For the year ended December 31, 2018					
Service Revenues					
Wireless	83,001			(2,736)	80,265
Mobile	81,096			(1,192)	79,904
Home broadband	155			—	155
MVNO and others	1,750			(1,544)	206
Fixed Line		81,648		(10,628)	71,020
Data		55,732		(6,228)	49,504
Corporate data and ICT		28,999		(5,973)	23,026
Home broadband		26,733		(255)	26,478
Voice		25,178		(4,030)	21,148
Miscellaneous		738		(370)	368
Others			1,094	(10)	1,084
Total Service Revenues	83,001	81,648	1,094	(13,374)	152,369
Non-Service Revenues					
Sale of computers, phone units, mobile handsets and broadband data modems	6,928	3,064	44	(8)	10,028
Point-product sales	—	510	—	7	517
Total Non-Service Revenues	6,928	3,574	44	(1)	10,545
Total Revenues	Php89,929	Php85,222	Php1,138	(Php13,375)	Php162,914

The following table shows the breakdown of our consolidated revenues by business segment for the years ended December 31, 2019 and 2018:

	2019	%	2018	%	Change	
					Amount	%
			(in millions)			
Wireless	Php96,906	57	Php89,929	55	Php6,977	8
Fixed line	89,406	53	85,222	52	4,184	5
Others ⁽¹⁾	—	—	1,138	1	(1,138)	(100)
Inter-segment transactions	(17,125)	(10)	(13,375)	(8)	(3,750)	(28)
Consolidated	Php169,187	100	Php162,914	100	Php6,273	4

⁽¹⁾ Other business segment includes revenues from digital platforms and mobile financial services.

Expenses

Consolidated expenses decreased by Php19,355 million, or 13%, to Php129,786 million in 2019 from Php149,141 million in 2018, primarily due to lower selling, general and administrative expenses, interconnection costs, provisions and noncurrent asset impairment in our Wireless business segment, lower depreciation and amortization and noncurrent asset impairment in our Fixed Line business segment, and lower expenses in our Other business segment due to the deconsolidation of VIH, partially offset by higher depreciation and amortization in our Wireless business segment and higher interconnection costs in our Fixed Line business segment.

The following table shows the breakdown of our consolidated expenses by business segment for the years ended December 31, 2019 and 2018:

	2019	%	2018	%	Change	
					Amount	%
	(in millions)					
Wireless	Php74,359	57	Php82,246	55	(Php7,887)	(10)
Fixed Line	72,385	56	77,782	52	(5,397)	(7)
Others	101	—	4,093	3	(3,992)	(98)
Inter-segment transactions	(17,059)	(13)	(14,980)	(10)	(2,079)	(14)
Consolidated	Php129,786	100	Php149,141	100	(Php19,355)	(13)

Other Income (Expenses) – Net

Consolidated other expenses amounted to Php7,065 million in 2019, a change of Php16,107 million as against other income of Php9,042 million in 2018, primarily due to the combined effects of the following: (i) gain on the deconsolidation of VIH in 2018, lower realized gains on fair value of Rocket Internet investment, and higher equity share in net losses of VIH from our Other business segment; (ii) net losses on derivative financial instruments in 2019 as against net gains on derivative financial instruments in 2018 from our Wireless and Fixed Line business segments; and (iii) higher financing costs from our Wireless business segment.

The following table shows the breakdown of our consolidated other income (expenses) – net by business segment for the years ended December 31, 2019 and 2018:

	2019	2018	Change	
			Amount	%
	(in millions)			
Wireless	(Php5,023)	(Php625)	(Php4,398)	(704)
Fixed Line	(259)	(45)	(214)	(476)
Others	(2,112)	12,099	(14,211)	(117)
Inter-segment transactions	329	(2,387)	2,716	114
Consolidated	(Php7,065)	Php9,042	(Php16,107)	(178)

Net Income (Loss)

Consolidated net income increased by Php3,813 million, or 20%, to Php22,786 million in 2019, from Php18,973 million in 2018, primarily due to higher net income from our Wireless and Fixed Line business segments, partly offset by net loss from our Other business segment as against net income in 2018. Our consolidated basic and diluted EPS increased to Php103.97 in 2019 from Php87.28 in 2018. Our weighted average number of outstanding common shares was approximately 216.06 million in each of 2019 and 2018.

The following table shows the breakdown of our consolidated net income by business segment for the years ended December 31, 2019 and 2018:

	2019	%	2018	%	Change	
					Amount	%
	(in millions)					
Wireless	Php13,101	58	Php5,725	30	Php7,376	129
Fixed Line	11,421	50	6,059	32	5,362	88
Others	(1,769)	(8)	7,971	42	(9,740)	(122)
Inter-segment transactions	33	—	(782)	(4)	815	104
Consolidated	Php22,786	100	Php18,973	100	Php3,813	20

EBITDA

Our consolidated EBITDA amounted to Php79,815 million in 2019, an increase of Php15,788 million, or 25%, as compared with Php64,027 million in 2018, primarily due to higher EBITDA in our Wireless and Fixed Line business segments, as well as from our Other business segment due to the deconsolidation of VIH.

In 2019, we adopted PFRS 16 resulting to a reduction in rent expense of Php5,281 million, thereby contributing an improvement in EBITDA, which was partially offset by the increase in manpower rightsizing program, or MRP, cost to Php3,296 million in 2019 from Php1,703 million in 2018.

The following table shows the breakdown of our consolidated EBITDA by business segment for the years ended December 31, 2019 and 2018:

	2019	%	2018	%	Change	
					Amount	%
	(in millions)					
Wireless	Php52,789	66	Php34,235	53	Php18,554	54
Fixed Line	33,162	42	30,875	48	2,287	7
Others	(101)	—	(2,688)	(4)	2,587	96
Inter-segment transactions	(6,035)	(8)	1,605	3	(7,640)	(476)
Consolidated	Php79,815	100	Php64,027	100	Php15,788	25

Core Income

Our consolidated core income amounted to Php25,111 million in 2019, a decrease of Php744 million, or 3%, as compared with Php25,855 million in 2018 mainly on account of lower other income primarily due to last year's gain on deconsolidation of VIH and lower realized gains on fair value of Rocket Internet investment, as well as higher provision for income tax and financing costs, partly offset by higher EBITDA and lower depreciation expense. Our consolidated basic and diluted core EPS decreased to Php115.95 in 2019 from Php119.39 in 2018.

The following table shows the breakdown of our consolidated core income by business segment for the years ended December 31, 2019 and 2018:

	2019	%	2018	%	Change	
					Amount	%
	(in millions)					
Wireless	Php13,685	55	Php9,760	38	Php3,925	40
Fixed Line	12,531	50	6,925	27	5,606	81
Others	(1,151)	(5)	9,952	38	(11,103)	(112)
Inter-segment transactions	46	—	(782)	(3)	828	106
Consolidated	Php25,111	100	Php25,855	100	(Php744)	(3)

Our consolidated core income as adjusted for the effect of accelerated depreciation, asset sales and share in Voyager losses, or telco core income, amounted to Php27,080 million in 2019, an increase of Php3,033 million, or 13%, as compared with Php24,047 million in 2018 mainly due to higher EBITDA, partially offset by higher depreciation on account of depreciation of right-of-use asset resulting from the impact of PFRS 16 adoption, and higher provision for income tax and financing costs.

On a Business Segment Basis

Wireless

Revenues

We generated revenues of Php96,906 million from our Wireless business segment in 2019, an increase of Php6,977 million, or 8%, from Php89,929 million in 2018.

The following table summarizes our total revenues by service from our Wireless business segment for the years ended December 31, 2019 and 2018:

	2019	%	2018	%	Increase (Decrease)	
					Amount	%
	(in millions)					
Service Revenues:						
Mobile	Php88,865	92	Php81,096	90	Php7,769	10
Home broadband	85	—	155	—	(70)	(45)
MVNO and others ⁽¹⁾	1,711	2	1,750	2	(39)	(2)
Total Wireless Service Revenues	90,661	94	83,001	92	7,660	9
Non-Service Revenues:						
Sale of mobile handsets and broadband data modems	6,245	6	6,928	8	(683)	(10)
Total Wireless Revenues	Php96,906	100	Php89,929	100	Php6,977	8

⁽¹⁾ Includes service revenues generated by MVNOs of PLDT Global subsidiaries and facilities service fees.

Service Revenues

Our wireless service revenues in 2019 increased by Php7,660 million, or 9%, to Php90,661 million as compared with Php83,001 million in 2018, primarily due to higher mobile revenues, partly offset by lower home broadband revenues. As a percentage of our total wireless revenues, service revenues accounted for 94% and 92% in 2019 and 2018, respectively.

Mobile Services

Our mobile service revenues amounted to Php88,865 million in 2019, an increase of Php7,769 million, or 10%, from Php81,096 million in 2018. Mobile service revenues accounted for 98% of our wireless service revenues in each of 2019 and 2018. In the third quarter of 2018, the revenue split allocation among voice, SMS and data for our mobile bundled

plans was revised to reflect the observed usage behavior pattern of our subscribers based on the network study conducted for our Wireless business segment.

The following table shows the breakdown of our mobile service revenues for the years ended December 31, 2019 and 2018:

	2019	%	2018	%	Increase (Decrease)	
					Amount	%
	(in millions)					
Mobile Services:						
Data	Php52,848	59	Php38,350	47	Php14,498	38
Voice	24,597	28	28,052	35	(3,455)	(12)
SMS	9,907	11	13,103	16	(3,196)	(24)
Inbound roaming and others ⁽¹⁾	1,513	2	1,591	2	(78)	(5)
Total	Php88,865	100	Php81,096	100	Php7,769	10

⁽¹⁾ Refers to other non-subscriber-related revenues consisting primarily of inbound international roaming fees.

Data Services

Mobile revenues from our data services, which include mobile internet, mobile broadband and other data services, increased by Php14,498 million, or 38%, to Php52,848 million in 2019 from Php38,350 million in 2018 due to increased mobile internet usage driven mainly by enhanced data products and consumer engagement promotions, supported by continuous network improvement and LTE migration, partially offset by lower revenues from mobile broadband. Data services accounted for 59% and 47% of our mobile service revenues in 2019 and 2018, respectively.

The following table shows the breakdown of our mobile data service revenues for the years ended December 31, 2019 and 2018:

	2019	%	2018	%	Increase (Decrease)	
					Amount	%
	(in millions)					
Data Services:						
Mobile internet ⁽¹⁾	Php48,399	91	Php33,207	87	Php15,192	46
Mobile broadband	3,547	7	4,589	12	(1,042)	(23)
Other data	902	2	554	1	348	63
Total	Php52,848	100	Php38,350	100	Php14,498	38

⁽¹⁾ Includes revenues from web-based services, net of discounts and content provider costs.

Mobile Internet

Mobile internet service revenues increased by Php15,192 million, or 46%, to Php48,399 million in 2019 from Php33,207 million in 2018, primarily due to the following: (i) promoting of data and content-led products such as *Giga Video*, *Giga Games*, *Giga Stories* for mobile prepaid services, which increased usage of video, gaming and social media by Smart, TNT and Sun subscribers; (ii) launching promotions of products, such as *Free Video Everyday* and *Free IG + FB For All*, which increased the number of mobile data users and further stimulated data usage; (iii) increased data usage resulting from events and activities, such as vlogger & creator camps, nationwide grassroots gaming tournaments, and large-scale eSports events, which attracted video creators and gamers; (iv) adoption of more accessible channels for customers to discover and buy mobile data services, such as *123#, online stores, malls and convenience store chains; (v) introduction of new data-led postpaid plans with the launch of *Smart Signature*; and (vi) LTE migration initiatives that further increased the number of LTE device users and LTE data users among our subscriber base. Mobile internet services accounted for 54% and 41% of our mobile service revenues in 2019 and 2018, respectively.

Mobile Broadband

Mobile broadband revenues amounted to Php3,547 million in 2019, a decrease of Php1,042 million, or 23%, from Php4,589 million in 2018, primarily due to a decrease in the number of subscribers using pocket WiFi as users shift to using mobile internet and fixed DSL/Fiber home broadband. Mobile broadband services accounted for 4% and 6% of our mobile service revenues in 2019 and 2018, respectively.

Other Data

Revenues from our other data services, which include value-added services, or VAS, domestic leased lines and share in revenue from PLDT WeRoam, increased by Php348 million, or 63%, to Php902 million in 2019 from Php554 million in 2018, primarily due to revenues from VAS related to mobile gaming and other pay with mobile online subscriptions and purchases.

Voice Services

Mobile revenues from our voice services, which include all voice traffic, decreased by Php3,455 million, or 12%, to Php24,597 million in 2019 from Php28,052 million in 2018, mainly on account of lower traffic due to subscribers' shift to alternative calling options and other OTT services, and the impact of reduction in interconnection rates for voice services, as mandated by the NTC effective September 2018. Mobile voice services accounted for 28% and 35% of our mobile service revenues in 2019 and 2018, respectively.

Domestic voice service revenues decreased by Php1,656 million, or 7%, to Php21,830 million in 2019 from Php23,486 million in 2018, due to lower domestic outbound and inbound voice service revenues.

International voice service revenues decreased by Php1,799 million, or 39%, to Php2,767 million in 2019 from Php4,566 million in 2018, primarily due to lower international inbound and outbound voice service revenues as a result of lower international voice traffic.

SMS Services

Mobile revenues from our SMS services, which include all SMS-related services, decreased by Php3,196 million, or 24%, to Php9,907 million in 2019 from Php13,103 million in 2018 mainly due to the declining SMS volumes as a result of alternative text messaging options, such as OTT services and social media, and the impact of the reduction in interconnection rates for SMS services. Mobile SMS services accounted for 11% and 16% of our mobile service revenues in 2019 and 2018, respectively.

Inbound Roaming and Others

Mobile revenues from inbound roaming and other services decreased by Php78 million, or 5%, to Php1,513 million in 2019 from Php1,591 million in 2018 due to lower other subscriber-related income.

The following table shows the breakdown of our mobile service revenues by service type for the years ended December 31, 2019 and 2018:

	2019	2018	Increase (Decrease)	
			Amount	%
Mobile service revenues	Php88,865	Php81,096	Php7,769	10
By service type			(in millions)	
Prepaid	67,850	59,914	7,936	13
Postpaid	19,502	19,591	(89)	—
Inbound roaming and others	1,513	1,591	(78)	(5)

Prepaid Revenues

Revenues generated from our mobile prepaid services amounted to Php67,850 million in 2019, an increase of Php7,936 million, or 13%, as compared with Php59,914 million in 2018. Mobile prepaid service revenues accounted for 76% and 74% of mobile service revenues in 2019 and 2018, respectively. The increase in revenues from our mobile prepaid services was primarily driven by a higher mobile prepaid subscriber base combined with higher average daily top-up by mobile prepaid subscribers and sustained growth in mobile internet usages.

Postpaid Revenues

Revenues generated from mobile postpaid services amounted to Php19,502 million in 2019, lower by Php89 million as compared with Php19,591 million in 2018, and accounted for 22% and 24% of mobile service revenues in 2019 and 2018, respectively.

Subscriber Base, ARPU and Churn Rates

The following table shows our mobile subscriber base as at December 31, 2019 and 2018:

	2019	2018	Increase	
			Amount	%
Mobile subscriber base				
Smart ⁽¹⁾	27,335,602	21,956,289	5,379,313	25
Prepaid	25,866,195	20,532,174	5,334,021	26
Postpaid	1,469,407	1,424,115	45,292	3
TNT	38,308,363	31,893,641	6,414,722	20
Sun ⁽¹⁾	7,474,190	6,649,087	825,103	12
Prepaid	6,547,231	5,753,163	794,068	14
Postpaid	926,959	895,924	31,035	3
Total mobile subscribers	73,118,155	60,499,017	12,619,138	21

⁽¹⁾ Includes mobile broadband subscribers.

Our current policy is to recognize a prepaid subscriber as active only when the subscriber activates and uses the SIM card. A prepaid mobile subscriber is considered inactive if the subscriber does not reload within 90 days after the full usage or expiry of the last reload.

In compliance with Memorandum Circular (MC) No. 05-12-2017 issued jointly by the NTC, DICT, and DTI, Smart, TNT, and Sun extended the validity of prepaid loads to one year from the date of latest top-up. Beginning January 2018, the one-year validity was implemented particularly on prepaid loads worth Php300 and above. In July 2018, the one-year validity was fully implemented for all prepaid loads, including denominations lower than Php300, regardless of the validity period printed on the physical cards already out in the market.

The average monthly churn rates for Smart Prepaid subscribers were 4.1% and 6.5% in 2019 and 2018, respectively, while the average monthly churn rates for TNT subscribers were 4.0% and 5.8% in 2019 and 2018, respectively. The average monthly churn rates for Sun Prepaid subscribers were 4.5% and 6.1% in 2019 and 2018, respectively.

The average monthly churn rates for Smart Postpaid subscribers were 2.1% and 2.0% in 2019 and 2018, respectively, and 2.0% and 3.5% in 2019 and 2018, respectively, for Sun Postpaid subscribers.

The following table summarizes our average monthly ARPU for the years ended December 31, 2019 and 2018:

	Gross ⁽¹⁾		Increase (Decrease)		Net ⁽²⁾		Increase (Decrease)	
	2019	2018	Amount	%	2019	2018	Amount	%
Prepaid								
Smart	Php132	Php130	Php2	2	Php116	Php118	(Php2)	(2)
TNT	77	79	(2)	(3)	69	71	(2)	(3)
Sun	84	89	(5)	(6)	75	81	(6)	(7)
Postpaid								
Smart	824	836	(12)	(1)	806	819	(13)	(2)
Sun	418	403	15	4	411	401	10	2

⁽¹⁾ Gross monthly ARPU is calculated by dividing gross mobile service revenues for the month, including interconnection income but excluding inbound roaming revenues, gross of discounts, and content provider costs, by the average number of subscribers in the month.

⁽²⁾ Net monthly ARPU is calculated by dividing gross mobile service revenues for the month, including interconnection income, but excluding inbound roaming revenues, net of discounts and content provider costs, by the average number of subscribers in the month.

Home Broadband

Revenues from our Home Broadband services amounted to Php85 million in 2019, a decrease of Php70 million, or 45%, from Php155 million in 2018, primarily due to a decrease in the number of subscribers.

MVNO and Others

Revenues from our MVNO and other services amounted to Php1,711 million in 2019, a decrease of Php39 million, or 2%, from Php1,750 million in 2018.

Non-Service Revenues

Our wireless non-service revenues consist of sale of mobile handsets, mobile broadband data modems, tablets and accessories. Our wireless non-service revenues decreased by Php683 million, or 10%, to Php6,245 million in 2019 from Php6,928 million in 2018, primarily due to lower issuances and decrease in average selling price per unit of mobile handsets.

Expenses

Expenses associated with our Wireless business segment amounted to Php74,359 million in 2019, a decrease of Php7,887 million, or 10%, from Php82,246 million in 2018. The decrease was mainly attributable to lower selling, general and administrative expenses, interconnection costs, provisions, asset impairment, and cost of sales and services, partially offset by higher depreciation and amortization. As a percentage of our total wireless revenues, expenses associated with our Wireless business segment accounted for 77% and 91% in 2019 and 2018, respectively.

The following table summarizes the breakdown of our total wireless-related expenses for the years ended December 31, 2019 and 2018 and the percentage of each expense item in relation to the total:

	2019	%	2018	%	Increase (Decrease)	
					Amount	%
						(in millions)
Selling, general and administrative expenses	Php32,009	43	Php39,693	48	(Php7,684)	(19)
Depreciation and amortization	29,484	40	24,778	30	4,706	19
Cost of sales and services	9,324	13	9,989	12	(665)	(7)
Interconnection costs	2,409	3	4,467	6	(2,058)	(46)
Provisions	1,011	1	2,173	3	(1,162)	(53)
Asset impairment	122	—	1,146	1	(1,024)	(89)
Total	Php74,359	100	Php82,246	100	(Php7,887)	(10)

Selling, general and administrative expenses decreased by Php7,684 million, or 19%, to Php32,009 million, primarily due to lower rent resulting mainly from the impact of PFRS 16 adoption, lower taxes and licenses, and professional and other contracted services, partly offset by higher expenses related to repairs and maintenance, compensation and employee benefits, and selling and promotions.

Depreciation and amortization charges increased by Php4,706 million, or 19%, to Php29,484 million, on account of depreciation of right-of-use asset resulting from the impact of PFRS 16 adoption and increase in depreciation of property

and equipment due to higher asset base, partly offset by lower depreciation recognized due to shortened life of certain data network platform and other technology equipment resulting from the ongoing transformation projects.

Cost of sales and services decreased by Php665 million, or 7%, to Php9,324 million, primarily due to lower average cost per unit of mobile handsets and lower cost of services, mainly content costs.

Interconnection costs decreased by Php2,058 million, or 46%, to Php2,409 million, primarily due to lower interconnection cost on domestic voice and SMS services, as a result of the impact of reduction in interconnection rates, combined with lower traffic.

Provisions decreased by Php1,162 million, or 53%, to Php1,011 million, primarily due to lower provision for expected credit losses and lower provision for inventory obsolescence, for both trade inventories and network materials.

Asset impairment decreased by Php1,024 million, or 89%, to Php122 million, primarily due to the impairment of certain network equipment in 2018 as a result of continued network convergence strategy of DMPI.

Other Income (Expenses) – Net

The following table summarizes the breakdown of our total wireless-related other income (expenses) – net for the years ended December 31, 2019 and 2018:

	2019	2018	Change	
			Amount	%
			(in millions)	
Other Income (Expenses) - Net:				
Financing costs – net	(Php6,422)	(Php1,865)	(Php4,557)	(244)
Gains (losses) on derivative financial instruments – net	(243)	449	(692)	(154)
Equity share in net earnings of associates and joint ventures	—	62	(62)	(100)
Foreign exchange gains (losses) – net	118	(125)	243	194
Interest income	703	719	(16)	(2)
Other income – net	821	135	686	508
Total	(Php5,023)	(Php625)	(Php4,398)	(704)

Our Wireless business segment's other expenses amounted to Php5,023 million in 2019, an increase of Php4,398 million from Php625 million in 2018, primarily due to the combined effects of the following: (i) higher net financing costs by Php4,557 million mainly attributed to the impact of PFRS 16 adoption; (ii) net losses on derivative financial instruments of Php243 million in 2019 as against net gains on derivative financial instruments of Php449 million in 2018 mainly due to the appreciation of the Philippine peso relative to the U.S. dollar in 2019 as against the depreciation of the Philippine peso relative to the U.S. dollar in 2018; (iii) equity share in net earnings of associates of Php62 million in 2018; (iv) lower interest income by Php16 million; (v) net foreign exchange gains of Php118 million in 2019 as against net foreign exchange losses of Php125 million in 2018, on account of revaluation of net foreign currency-denominated liabilities due to the appreciation of the Philippine peso relative to the U.S. dollar in 2019 as against the depreciation of the Philippine peso relative to the U.S. dollar in 2018; and (vi) higher other income – net by Php686 million mainly due to higher rental income, income from management services and other miscellaneous income.

Provision for Income Tax

Provision for income tax amounted to Php4,423 million in 2019, an increase of Php3,090 million from Php1,333 million in 2018 mainly due to higher taxable income.

Net Income

As a result of the foregoing, our Wireless business segment's net income increased by Php7,376 million, or 129%, to Php13,101 million in 2019 from Php5,725 million in 2018.

EBITDA

Our Wireless business segment's EBITDA increased by Php18,554 million, or 54%, to Php52,789 million in 2019 from Php34,235 million in 2018. EBITDA margin increased to 58% in 2019 from 41% in 2018.

Core Income

Our Wireless business segment's core income increased by Php3,925 million, or 40%, to Php13,685 million in 2019 from Php9,760 million in 2018, mainly on account of higher EBITDA, partially offset by higher depreciation expense, net financing costs and provision for income tax.

Fixed Line

Revenues

Revenues generated from our Fixed Line business segment amounted to Php89,406 million in 2019, an increase of Php4,184 million, or 5%, from Php85,222 million in 2018.

The following table summarizes our total revenues by service from our Fixed Line business segment for the years ended December 31, 2019 and 2018:

	2019	%	2018	%	Increase (Decrease)	
					Amount	%
	(in millions)					
Service Revenues:						
Data	Php60,764	68	Php55,732	65	Php5,032	9
Voice	26,267	29	25,178	30	1,089	4
Miscellaneous	788	1	738	1	50	7
	87,819	98	81,648	96	6,171	8
Non-Service Revenues:						
Sale of computers, phone units and point-product sales	1,587	2	3,574	4	(1,987)	(56)
Total Fixed Line Revenues	Php89,406	100	Php85,222	100	Php4,184	5

Service Revenues

Our fixed line service revenues increased by Php6,171 million, or 8%, to Php87,819 million in 2019 from Php81,648 million in 2018, primarily due to higher revenues from our data and voice services. In the second quarter of 2018, the revenue split allocation between voice and data for our fixed line bundled plans was revised, in favor of data, to reflect the result of a network usage study of our Fixed Line business segment.

Data Services

The following table shows information of our data service revenues for the years ended December 31, 2019 and 2018:

	2019	2018	Increase	
			Amount	%
	(in millions)			
Data service revenues	Php60,764	Php55,732	Php5,032	9
Corporate data and ICT	32,315	28,999	3,316	11
Home broadband	28,449	26,733	1,716	6

Our data services posted revenues of Php60,764 million in 2019, an increase of Php5,032 million, or 9%, from Php55,732 million in 2018, primarily due to higher revenues from corporate data and leased lines, data center and ICT, and home broadband services. The percentage contribution of this service segment to our fixed line service revenues accounted for 69% and 68% in 2019 and 2018, respectively.

Corporate Data and ICT

Corporate data services amounted to Php26,681 million in 2019, an increase of Php2,690 million, or 11%, as compared with Php23,991 million in 2018, mainly due to the sustained demand for broadband internet and data networking services. Corporate data revenues accounted for 44% and 43% of total data services in 2019 and 2018, respectively.

ICT revenues increased by Php626 million, or 13%, to Php5,634 million in 2019 from Php5,008 million in 2018 mainly due to higher revenues from Data Centers, Cloud, Cybersecurity and managed IT services. The percentage contribution of this service segment to our total data service revenues accounted for 9% in each of 2019 and 2018.

Home Broadband

Home broadband data revenues amounted to Php28,449 million in 2019, an increase of Php1,716 million, or 6%, from Php26,733 million in 2018. This growth is driven by increasing demand for broadband services which the company is providing through its existing copper network and a nationwide roll-out of its fiber-to-the-home, or FTTH, network. Home broadband revenues accounted for 47% and 48% of total data service revenues in 2019 and 2018, respectively. In 2019, PLDT's FTTH nationwide network rollout passed 7.2 million homes.

Voice Services

Revenues from our voice services increased by Php1,089 million, or 4%, to Php26,267 million in 2019 from Php25,178 million in 2018, primarily due to higher revenues from international services of PLDT Global, partly offset by lower revenues from domestic and local exchange services. The decline in local exchange and domestic services was partly due to the continued popularity of services such as Skype, Viber, Line, Facebook Messenger, Google Talk and WhatsApp, offering free OTT calling services, and other similar services, as well as subscribers' shift to mobile services. The percentage contribution of voice service revenues to our fixed line service revenues accounted for 30% and 31% in 2019 and 2018, respectively.

Miscellaneous Services

Miscellaneous service revenues are derived mostly from rentals and management fees. These service revenues increased by Php50 million, or 7%, to Php788 million in 2019 from Php738 million in 2018. The percentage contribution of miscellaneous service revenues to our total fixed line service revenues accounted for 1% in each of 2019 and 2018.

Non-service Revenues

Non-service revenues decreased by Php1,987 million, or 56%, to Php1,587 million in 2019 from Php3,574 million in 2018, primarily due to lower sale of Telpad units, computer bundles, managed ICT equipment and Ultera devices.

Expenses

Expenses related to our Fixed Line business segment totaled Php72,385 million in 2019, a decrease of Php5,397 million, or 7%, as compared with Php77,782 million in 2018. The decrease was primarily due to lower expenses related to depreciation and amortization, asset impairment, cost of sales and services, and selling, general and administrative expenses, partly offset by higher interconnection costs. As a percentage of our total fixed line revenues, expenses associated with our Fixed Line business segment accounted for 81% and 91% in 2019 and 2018, respectively.

The following table shows the breakdown of our total fixed line-related expenses for the years ended December 31, 2019 and 2018 and the percentage of each expense item in relation to the total:

	2019	%	2018	%	Increase (Decrease)	
					Amount	%
	(in millions)					
Selling, general and administrative expenses	Php40,856	56	Php41,065	53	(Php209)	(1)
Depreciation and amortization	16,141	22	22,303	29	(6,162)	(28)
Interconnection costs	7,577	11	5,145	7	2,432	47
Cost of sales and services	4,112	6	4,523	6	(411)	(9)
Provisions	3,530	5	3,547	4	(17)	—
Asset impairment	169	—	1,199	1	(1,030)	(86)
Total	Php72,385	100	Php77,782	100	(Php5,397)	(7)

Selling, general and administrative expenses decreased by Php209 million, or 1%, to Php40,856 million primarily due to lower rent expenses, mainly due to the impact of PFRS 16 adoption, as well as lower selling and promotions expenses, partly offset by higher compensation and employee benefits resulting from higher MRP expenses, professional and other contracted services, taxes and licenses, repairs and maintenance, and communication, training and travel expenses.

Depreciation and amortization charges decreased by Php6,162 million, or 28%, to Php16,141 million mainly on account of lower depreciation due to shortened life of certain network equipment in 2018 resulting from the modernization of facilities to adopt more effective technologies, partly offset by depreciation of right-of-use asset due to the impact of PFRS 16 adoption.

Interconnection costs increased by Php2,432 million, or 47%, to Php7,577 million, primarily due to higher international interconnection costs of PLDT Global, partly offset by lower domestic interconnection costs, mainly due to the impact of reduction in interconnection rate for voice services.

Cost of sales and services decreased by Php411 million, or 9%, to Php4,112 million, primarily due to lower cost of Telpad units, computer bundles, managed ICT equipment and Ultera devices, partly offset by higher cost of services.

Provisions decreased by Php17 million to Php3,530 million, primarily due to lower provision for inventory obsolescence, partly offset by higher provision for expected credit losses mainly from our Home trade receivables and contract assets.

Asset impairment decreased by Php1,030 million, or 86%, to Php169 million, primarily due to impairment provision for certain property and equipment of Digitel in 2018.

Other Income (Expenses) – Net

The following table summarizes the breakdown of our total fixed line-related other income (expenses) – net for the years ended December 31, 2019 and 2018:

	2019	2018	Change	
			Amount	%
	(in millions)			
Other Income (Expenses) - Net:				
Financing costs – net	(Php5,078)	(Php5,195)	Php117	2
Gains (losses) on derivative financial instruments – net	(196)	355	(551)	(155)
Equity share in net earnings of associates	568	171	397	232
Foreign exchange gains (losses) – net	400	(58)	458	790
Interest income	680	812	(132)	(16)
Other income – net	3,367	3,870	(503)	(13)
Total	(Php259)	(Php45)	(Php214)	(476)

Our Fixed Line business segment's other expenses amounted to Php259 million in 2019, an increase of Php214 million from Php45 million in 2018, primarily due to the combined effects of the following: (i) net losses on derivative financial instruments of Php196 million in 2019 as against net gains on derivative financial instruments of Php355 million in 2018

mainly due to the appreciation of the Philippine peso relative to the U.S. dollar in 2019 as against the depreciation of the Philippine peso relative to the U.S. dollar in 2018; (ii) lower other income – net by Php503 million; (iii) lower interest income by Php132 million; (iv) higher equity share in net earnings of associates by Php397 million; (v) lower net financing costs by Php117 million mainly due to higher capitalized interest and lower weighted average loan principal amount, partly offset by the impact of PFRS 16 adoption; and (vi) net foreign exchange gains of Php400 million in 2019 as against net foreign exchange losses of Php58 million in 2018, on account of revaluation of net foreign currency-denominated liabilities due to the appreciation of the Philippine peso relative to the U.S. dollar in 2019 as against the depreciation of the Philippine peso relative to the U.S. dollar in 2018.

Provision for Income Tax

Provision for income tax amounted to Php5,341 million in 2019, an increase of Php4,005 million from Php1,336 million in 2018, primarily due to higher taxable income.

Net Income

As a result of the foregoing, our Fixed Line business segment registered a net income of Php11,421 million in 2019, an increase of Php5,362 million, or 88%, as compared with Php6,059 million in 2018.

EBITDA

Our Fixed Line business segment's EBITDA increased by Php2,287 million, or 7%, to Php33,162 million in 2019 from Php30,875 million in 2018. EBITDA margin remained stable at 38% for each of 2019 and 2018.

Core Income

Our Fixed Line business segment's core income increased by Php5,606 million, or 81%, to Php12,531 million in 2019 from Php6,925 million in 2018, primarily as a result of lower depreciation expenses and higher EBITDA, partly offset by higher provision for income tax.

Others

Revenues

Revenues generated from our Other business segment, which include revenues from digital platforms and mobile financial services, amounted to nil and Php1,138 million in 2019 and 2018, respectively, due mainly to the deconsolidation of VIH in November 2018.

Expenses

Expenses related to our Other business segment totaled Php101 million in 2019, a decrease of Php3,992 million, or 98%, from Php4,093 million in 2018, due mainly to the deconsolidation of VIH.

Other Income (Expenses) – Net

The following table summarizes the breakdown of other income (expenses) – net for Other business segment for the years ended December 31, 2019 and 2018:

	2019	2018	Change	
			Amount	%
	(in millions)			
Other Income (Expenses) - Net:				
Interest income	Php362	Php536	(Php174)	(32)
Gains on derivative financial instruments – net	155	282	(127)	(45)
Gain on deconsolidation of VIH	—	12,054	(12,054)	(100)
Financing costs – net	—	(131)	131	100
Foreign exchange losses – net	(76)	(588)	512	87
Equity share in net losses of associates and joint ventures	(2,103)	(320)	(1,783)	(557)
Other income (expenses) – net	(450)	266	(716)	(269)
Total	(Php2,112)	Php12,099	(Php14,211)	(117)

Our Other business segment's other expenses amounted to Php2,112 million in 2019, a change of Php14,211 million as against other income of Php12,099 million in 2018, primarily due to the combined effects of the following: (i) lower other income – net by Php12,770 million mainly due to gain on deconsolidation of VIH of Php12,054 million in 2018 and lower realized gains on fair value of Rocket Internet investment, as well as unrealized loss on fair value of Phunware investment in 2019; (ii) higher equity share in net losses of associates and joint ventures by Php1,783 million mainly due to equity share in net losses of VIH amounting to Php2,268 million in 2019; (iii) lower interest income by Php174 million; (iv) lower net gains on derivative financial instruments by Php127 million; (v) lower net financing costs by Php131 million; and (vi) lower net foreign exchange losses by Php512 million mainly due to the appreciation of the Philippine peso relative to the U.S. dollar in 2019 as against the depreciation of the Philippine peso relative to the U.S. dollar in 2018.

Net Income (Loss)

As a result of the foregoing, our Other business segment registered a net loss of Php1,769 million in 2019, a change of Php9,740 million as against net income of Php7,971 million in 2018.

Core Income (Loss)

Our Other business segment's core loss amounted to Php1,151 million in 2019, a change of Php11,103 million as against core income of Php9,952 million in 2018.

Years ended December 31, 2018 and 2017

On a Consolidated Basis

Revenues

We reported consolidated revenues of Php162,914 million in 2018, an increase of Php3,981 million, or 3%, as compared with Php158,933 million in 2017, primarily due to higher revenues from data services in our Fixed Line business segment, as well as higher non-service revenues from our Wireless business segment, partially offset by lower revenues from mobile and home broadband services from our Wireless business segment, and lower voice revenues from our Fixed Line business segment.

The following table shows the breakdown of our consolidated revenues by services for the years ended December 31, 2018 and 2017:

	Wireless	Fixed Line	Others	Inter-segment Transactions	Consolidated
	(in millions)				
For the year ended December 31, 2018					
Service Revenues					
<i>Wireless</i>					
Mobile	Php83,001			(Php2,736)	Php80,265
Home broadband	81,096			(1,192)	79,904
MVNO and others	155			–	155
	1,750			(1,544)	206
<i>Fixed Line</i>					
Data		Php81,648		(10,628)	71,020
Home broadband		55,732		(6,228)	49,504
Corporate data and ICT		26,733		(255)	26,478
Voice		28,999		(5,973)	23,026
Miscellaneous		25,178		(4,030)	21,148
		738		(370)	368
<i>Others</i>					
			Php1,094	(10)	1,084
Total Service Revenues	83,001	81,648	1,094	(13,374)	152,369
Non-Service Revenues					
Sale of computers, phone units, mobile handsets and broadband data modems	6,928	3,064	44	(8)	10,028
Point-product sales	–	510	–	7	517
Total Non-Service Revenues	6,928	3,574	44	(1)	10,545
Total Revenues	89,929	85,222	1,138	(13,375)	162,914
For the year ended December 31, 2017					
Service Revenues					
<i>Wireless</i>					
Mobile	87,412			(1,284)	86,128
Home broadband	84,439			(1,273)	83,166
MVNO and others	2,556			(9)	2,547
	417			(2)	415
<i>Fixed Line</i>					
Data		74,757		(11,939)	62,818
Home broadband		44,294		(6,849)	37,445
Corporate data and ICT		18,054		(245)	17,809
Voice		26,240		(6,604)	19,636
Miscellaneous		28,500		(4,197)	24,303
		1,963		(893)	1,070
<i>Others</i>					
			1,256	(30)	1,226
Total Service Revenues	87,412	74,757	1,256	(13,253)	150,172
Non-Service Revenues					
Sale of computers, phone units, mobile handsets and broadband data modems	5,160	2,724	23	(18)	7,889
Point-product sales	–	860	–	12	872
Total Non-Service Revenues	5,160	3,584	23	(6)	8,761
Total Revenues	Php92,572	Php78,341	Php1,279	(Php13,259)	Php158,933

The following table shows the breakdown of our consolidated revenues by business segment for the years ended December 31, 2018 and 2017:

	2018		2017		Change	
	Amount	%	Amount	%	Amount	%
	(in millions)					
Wireless	Php89,929	55	Php92,572	58	(Php2,643)	(3)
Fixed line	85,222	52	78,341	49	6,881	9
Others ⁽¹⁾	1,138	1	1,279	1	(141)	(11)
Inter-segment transactions	(13,375)	(8)	(13,259)	(8)	(116)	(1)
Consolidated	Php162,914	100	Php158,933	100	Php3,981	3

⁽¹⁾ Other business segment includes revenues from digital platforms and mobile financial services.

Expenses

Consolidated expenses decreased by Php281 million to Php149,141 million in 2018 from Php149,422 million in 2017, primarily due to lower depreciation and amortization, and interconnection costs in our Wireless business segment, partially offset by higher depreciation and amortization, asset impairment, general and administrative expenses, asset impairment and provisions in our Fixed Line business segment, and higher cost of sales and services in our Wireless business segment.

The following table shows the breakdown of our consolidated expenses by business segment for the years ended December 31, 2018 and 2017:

	2018		2017		Change	
	Amount	%	Amount	%	Amount	%
	(in millions)					
Wireless	Php82,246	55	Php97,651	65	(Php15,405)	(16)
Fixed line	77,782	52	63,864	43	13,918	22
Others	4,093	3	2,774	2	1,319	48
Inter-segment transactions	(14,980)	(10)	(14,867)	(10)	(113)	(1)
Consolidated	Php149,141	100	Php149,422	100	(Php281)	—

Other Income (Expenses) – Net

Consolidated other income increased by Php3,984 million, or 79%, to Php9,042 million in 2018 from Php5,058 million in 2017, primarily due to gain on the deconsolidation of VIH and realized gain on fair value of Rocket Internet investment in 2018 from our Other business segment, as well as impairment of investment in Hastings PDRs in 2017 from our Fixed Line business segment, partially offset by gain on sale of Beacon Electric Holdings, Inc., or Beacon, shares in 2017 and equity share in net losses of associates and joint ventures in 2018 from our Other business segment.

The following table shows the breakdown of our consolidated other income (expenses) – net by business segment for the years ended December 31, 2018 and 2017:

	2018		2017		Change	
	Amount	%	Amount	%	Amount	%
	(in millions)					
Wireless	(Php625)		Php77		(Php702)	(912)
Fixed line	(45)		(3,323)		3,278	99
Others	12,099		10,530		1,569	15
Inter-segment transactions	(2,387)		(2,226)		(161)	(7)
Consolidated	Php9,042		Php5,058		Php3,984	79

Net Income

Consolidated net income increased by Php5,507 million, or 41%, to Php18,973 million in 2018, from Php13,466 million in 2017, primarily due to higher net income from our Wireless business segment, partly offset by lower net income from our Fixed Line and Other business segments. Our consolidated basic and diluted EPS increased to Php87.28 in 2018 from Php61.61 in 2017. Our weighted average number of outstanding common shares was approximately 216.06 million in each of 2018 and 2017.

The following table shows the breakdown of our consolidated net income (loss) by business segment for the years ended December 31, 2018 and 2017:

	2018		2017		Change	
	Amount	%	Amount	%	Amount	%
	(in millions)					
Wireless	Php5,725	30	(Php2,215)	(17)	Php7,940	358
Fixed line	6,059	32	7,474	56	(1,415)	(19)
Others	7,971	42	8,825	66	(854)	(10)
Inter-segment transactions	(782)	(4)	(618)	(5)	(164)	(27)
Consolidated	Php18,973	100	Php13,466	100	Php5,507	41

EBITDA

Our consolidated EBITDA amounted to Php64,027 million in 2018, a decrease of Php2,147 million, or 3%, as compared with Php66,174 million in 2017, primarily due to lower EBITDA in our Wireless and Other business segments, partially offset by higher EBITDA in our Fixed Line business segment.

The following table shows the breakdown of our consolidated EBITDA by business segment for the years ended December 31, 2018 and 2017:

	2018		2017		Change	
	Amount	%	Amount	%	Amount	%
	(in millions)					
Wireless	Php34,235	53	Php36,395	55	(Php2,160)	(6)
Fixed line	30,875	48	29,478	45	1,397	5
Others	(2,688)	(4)	(1,307)	(2)	(1,381)	(106)
Inter-segment transactions	1,605	3	1,608	2	(3)	—
Consolidated	Php64,027	100	Php66,174	100	(Php2,147)	(3)

Core Income

Our consolidated core income amounted to Php25,855 million in 2018, a decrease of Php1,813 million, or 7%, as compared with Php27,668 million in 2017, primarily due to lower core income from our Fixed Line business segment, partially offset by higher core income from our Other business segment. Our consolidated basic and diluted core EPS decreased to Php119.39 in 2018 from Php127.79 in 2017.

The following table shows the breakdown of our consolidated core income by business segment for the years ended December 31, 2018 and 2017:

	2018	%	2017	%	Change	
					Amount	%
	(in millions)					
Wireless	Php9,760	38	Php9,812	35	(Php52)	(1)
Fixed line	6,925	27	8,846	32	(1,921)	(22)
Others	9,952	38	9,628	35	324	3
Inter-segment transactions	(782)	(3)	(618)	(2)	(164)	(27)
Consolidated	Php25,855	100	Php27,668	100	(Php1,813)	(7)

On a Business Segment Basis

Wireless

Revenues

We generated revenues of Php89,929 million from our Wireless business segment in 2018, a decrease of Php2,643 million, or 3%, from Php92,572 million in 2017.

The following table summarizes our total revenues by service from our Wireless business segment for the years ended December 31, 2018 and 2017:

	2018	%	2017	%	Increase (Decrease)	
					Amount	%
	(in millions)					
Service Revenues:						
Mobile	Php81,096	90	Php84,439	91	(Php3,343)	(4)
Home Broadband	155	—	2,556	3	(2,401)	(94)
MVNO and others ⁽¹⁾	1,750	2	417	—	1,333	320
Total Wireless Service Revenues	83,001	92	87,412	94	(4,411)	(5)
Non-Service Revenues:						
Sale of mobile handsets and broadband data modems	6,928	8	5,160	6	1,768	34
Total Wireless Revenues	Php89,929	100	Php92,572	100	(Php2,643)	(3)

⁽¹⁾ Includes service revenues generated by MVNOs of PLDT Global subsidiaries and facilities service fees.

Service Revenues

Our wireless service revenues in 2018 decreased by Php4,411 million, or 5%, to Php83,001 million as compared with Php87,412 million in 2017, mainly as a result of lower revenues from mobile, and home broadband, partially offset by higher revenues from other services. As a percentage of our total wireless revenues, service revenues accounted for 92% and 94% for the years ended December 31, 2018 and 2017, respectively.

Mobile Services

Our mobile service revenues amounted to Php81,096 million in 2018, a decrease of Php3,343 million, or 4%, from Php84,439 million in 2017. Mobile service revenues accounted for 98% and 97% of our wireless service revenues for the years ended December 31, 2018 and 2017, respectively. In the third quarter of 2018, the revenue split allocation among voice, SMS and data for our mobile bundled plans was revised to reflect the current usage behavior pattern of our subscribers based on the recent network study conducted for our Wireless business segment.

The following table shows the breakdown of our mobile service revenues for the years ended December 31, 2018 and 2017:

	2018	%	2017	%	Increase (Decrease)	
					Amount	%
	(in millions)					
Mobile Services:						
Data	Php38,350	47	Php26,281	31	Php12,069	46
Voice	28,052	35	30,724	36	(2,672)	(9)
SMS	13,103	16	26,045	31	(12,942)	(50)
Inbound roaming and others ⁽¹⁾	1,591	2	1,389	2	202	15
Total	Php81,096	100	Php84,439	100	(Php3,343)	(4)

⁽¹⁾ Refers to other non-subscriber-related revenues consisting primarily of inbound international roaming fees.

Data Services

Mobile revenues from our data services, which include mobile internet, mobile broadband and other data services, increased by Php12,069 million, or 46%, to Php38,350 million in 2018 from Php26,281 million in 2017 due to increased mobile internet usage driven mainly by enhanced data offers with video access, supported by continuous network improvement and LTE migration, as well as the impact of the revised revenue split allocation, partially offset by lower revenues from mobile broadband and the impact of adoption of PFRS 15. Data services accounted for 47% and 31% of our mobile service revenues for the years ended December 31, 2018 and 2017, respectively.

The following table shows the breakdown of our mobile data service revenues for the years ended December 31, 2018 and 2017:

	2018	%	2017	%	Increase (Decrease)	
					Amount	%
	(in millions)					
Data Services:						
Mobile internet ⁽¹⁾	Php33,207	87	Php20,086	76	Php13,121	65
Mobile broadband	4,589	12	6,030	23	(1,441)	(24)
Other data ⁽²⁾	554	1	165	1	389	236
Total	Php38,350	100	Php26,281	100	Php12,069	46

⁽¹⁾ Includes revenues from web-based services, net of discounts and content provider costs.

⁽²⁾ Beginning third quarter of 2018, revenues from other data include value-added services, or VAS.

Mobile internet

Mobile internet service revenues increased by Php13,121 million, or 65%, to Php33,207 million in 2018 from Php20,086 million in 2017, primarily due to the following: (i) LTE migration efforts which yielded growth in LTE SIMs and smartphone ownership among our subscriber base; (ii) *YouTube* promo which built a video-streaming habit among users; (iii) prevalent use of mobile apps, social networking and e-commerce sites, and other OTT services; and (iv) impact of the revised revenue split allocation. Mobile internet services accounted for 41% and 24% of our mobile service revenues for the years ended December 31, 2018 and 2017, respectively.

Mobile broadband

Mobile broadband revenues amounted to Php4,589 million in 2018, a decrease of Php1,441 million, or 24%, from Php6,030 million in 2017, primarily due to a decrease in the number of subscribers using pocket WiFi as they shift to using mobile internet and fixed DSL/Fiber home broadband. Mobile broadband services accounted for 6% and 7% of our mobile service revenues for the years ended December 31, 2018 and 2017, respectively.

Other data

Revenues from our other data services, which include VAS, domestic leased lines and share in revenue from PLDT WeRoam, increased by Php389 million, or 236%, to Php554 million in 2018 from Php165 million in 2017.

Voice Services

Mobile revenues from our voice services, which include all voice traffic, decreased by Php2,672 million, or 9%, to Php28,052 million in 2018 from Php30,724 million in 2017, mainly on account of lower traffic due to subscribers' shift to digital lifestyle with access to alternative calling options and other OTT services, and the impact of reduction in interconnection rates for voice services, as mandated by the NTC, and adoption of PFRS 15, partly offset by the effect of the revised revenue split allocation. Mobile voice services accounted for 35% and 36% of our mobile service revenues for the years ended December 31, 2018 and 2017, respectively.

Domestic voice service revenues decreased by Php650 million, or 3%, to Php23,486 million in 2018 from Php24,136 million in 2017, due to lower domestic inbound and outbound voice service revenues.

International voice service revenues decreased by Php2,022 million, or 31%, to Php4,566 million in 2018 from Php6,588 million in 2017, primarily due to lower international inbound and outbound voice service revenues as a result of lower international voice traffic, partially offset by the effect of higher weighted average rate of the Philippine peso relative to the U.S. dollar.

SMS Services

Mobile revenues from our SMS services, which include all SMS-related services, decreased by Php12,942 million, or 50%, to Php13,103 million in 2018 from Php26,045 million in 2017 mainly due to declining SMS volumes as a result of alternative text messaging options, such as OTT services and social media, and the impact of the revised revenue split allocation, reduction in interconnection rates for SMS services and adoption of PFRS 15. Mobile SMS services accounted for 16% and 31% of our mobile service revenues for the years ended December 31, 2018 and 2017, respectively.

Inbound Roaming and Others

Mobile revenues from inbound roaming and other services increased by Php202 million, or 15%, to Php1,591 million in 2018 from Php1,389 million in 2017.

The following table shows the breakdown of our mobile service revenues by service type for the years ended December 31, 2018 and 2017:

	2018	2017 (in millions)	Increase (Decrease)	
			Amount	%
Mobile service revenues	Php81,096	Php84,439	(Php3,343)	(4)
By service type				
Prepaid	59,914	59,862	52	—
Postpaid	19,591	23,188	(3,597)	(16)
Inbound roaming and others	1,591	1,389	202	15

Prepaid Revenues

Revenues generated from our mobile prepaid services amounted to Php59,914 million in 2018, an increase of Php52 million as compared with Php59,862 million in 2017. Mobile prepaid service revenues accounted for 74% and 71% of mobile service revenues for the years ended December 31, 2018 and 2017, respectively. The increase in revenues from our mobile prepaid services was primarily driven by a higher mobile prepaid subscriber base combined with the sustained growth in mobile internet revenues.

Postpaid Revenues

Revenues generated from mobile postpaid service amounted to Php19,591 million in 2018, a decrease of Php3,597 million, or 16%, as compared with Php23,188 million in 2017, and accounted for 24% and 27% of mobile service revenues for the years ended December 31, 2018 and 2017, respectively. The decrease in our mobile postpaid service revenues was primarily due to a lower postpaid subscriber base and the impact of adoption of PFRS 15.

Subscriber Base, Average Revenue Per User, or ARPU, and Churn Rates

The following table shows our wireless subscriber base as at December 31, 2018 and 2017:

	2018	2017	Increase (Decrease)	
			Amount	%
Mobile subscriber base				
Smart ⁽¹⁾	21,956,289	21,821,441	134,848	1
Prepaid	20,532,174	20,433,351	98,823	—
Postpaid	1,424,115	1,388,090	36,025	3
TNT	31,893,641	28,807,964	3,085,677	11
Sun ⁽¹⁾	6,649,087	7,664,503	(1,015,416)	(13)
Prepaid	5,753,163	6,535,331	(782,168)	(12)
Postpaid	895,924	1,129,172	(233,248)	(21)
Total mobile subscribers	60,499,017	58,293,908	2,205,109	4

⁽¹⁾ Includes mobile broadband subscribers.

Our current policy is to recognize a prepaid subscriber as active only when the subscriber activates and uses the SIM card. Beginning the second quarter of 2017, a prepaid mobile subscriber is considered inactive if the subscriber does not reload within 90 days after the full usage or expiry of the last reload, revised from the previous 120 days.

In compliance with Memorandum Circular (MC) No. 05-12-2017 issued jointly by the NTC, DICT, and DTI, Smart, TNT, and Sun extended the validity of prepaid loads to one year. Beginning January 2018, the one-year validity was implemented particularly on prepaid loads worth Php300 and above. In July 2018, the one-year validity was fully implemented for all prepaid loads, including denominations lower than Php300, regardless of the validity period printed on the physical cards already out in the market.

The average monthly churn rates for Smart Prepaid subscribers were 6.5% and 6.7% in 2018 and 2017, respectively, while the average monthly churn rates for TNT subscribers were 5.8% and 6.8% in 2018 and 2017, respectively. The average monthly churn rates for Sun Prepaid subscribers were 6.1% and 7.7% in 2018 and 2017, respectively.

The average monthly churn rates for Smart Postpaid subscribers were 2.0% and 2.3% in 2018 and 2017, respectively, and 3.5% in each of 2018 and 2017, for Sun Postpaid subscribers.

The following table summarizes our average monthly ARPUs for the years ended December 31, 2018 and 2017:

	Gross ⁽¹⁾		Increase (Decrease)		Net ⁽²⁾		Increase (Decrease)	
	2018	2017	Amount	%	2018	2017	Amount	%
	(in Pesos)				(in Pesos)			
Prepaid								
Smart	Php130	Php118	Php12	10	Php118	Php108	Php10	9
TNT	79	81	(2)	(2)	71	74	(3)	(4)
Sun	89	88	1	1	81	82	(1)	(1)
Postpaid								
Smart	836	1,004	(168)	(17)	819	972	(153)	(16)
Sun	403	422	(19)	(5)	401	418	(17)	(4)

⁽¹⁾ Gross monthly ARPU is calculated by dividing gross mobile service revenues for the month, including interconnection income but excluding inbound roaming revenues, gross of discounts, and content provider costs, by the average number of subscribers in the month.

⁽²⁾ Net monthly ARPU is calculated by dividing gross mobile service revenues for the month, including interconnection income, but excluding inbound roaming revenues, net of discounts and content provider costs, by the average number of subscribers in the month.

Home Broadband

Revenues from our Home Broadband services decreased by Php2,401 million, or 94%, to Php155 million in 2018 from Php2,556 million in 2017, mainly due to the transfer of *Ultera* and *WiMAX* businesses to PLDT.

MVNO and Others

Revenues from our MVNO and other services increased by Php1,333 million to Php1,750 million in 2018 from Php417 million in 2017, primarily due to facility service fees relating to *Ultera*, *WiMAX* and *Shops.Work Unplugged*, or *SWUP*, in 2018, partially offset by lower revenue contribution from MVNOs of PLDT Global.

Non-Service Revenues

Our wireless non-service revenues consist of sale of mobile handsets, mobile broadband data modems, tablets and accessories. Our wireless non-service revenues increased by Php1,768 million, or 34%, to Php6,928 million in 2018 from Php5,160 million in 2017, primarily due to the impact of adoption of PFRS 15.

Expenses

Expenses associated with our Wireless business segment amounted to Php82,246 million in 2018, a decrease of Php15,405 million, or 16%, from Php97,651 million in 2017. The decrease was mainly attributable to lower depreciation and amortization, asset impairment and interconnection costs, partially offset by higher cost of sales and services, and selling, general and administrative expenses. As a percentage of our total wireless revenues, expenses associated with our Wireless business segment accounted for 91% and 105% in the years ended December 31, 2018 and 2017, respectively.

The following table summarizes the breakdown of our total wireless-related expenses for the years ended December 31, 2018 and 2017 and the percentage of each expense item in relation to the total:

	2018		2017		Increase (Decrease)	
	Amount	%	Amount	%	Amount	%
	(in millions)					
Selling, general and administrative expenses	Php39,693	48	Php39,584	41	Php109	—
Depreciation and amortization	24,778	30	36,776	38	(11,998)	(33)
Cost of sales and services	9,989	12	8,814	9	1,175	13
Interconnection costs	4,467	6	6,373	6	(1,906)	(30)
Provisions	2,173	3	2,191	2	(18)	(1)
Asset impairment	1,146	1	3,913	4	(2,767)	(71)
Total	Php82,246	100	Php97,651	100	(Php15,405)	(16)

Selling, general and administrative expenses increased by Php109 million to Php39,693 million, primarily due to higher taxes and licenses, repairs and maintenance, and compensation and employee benefits, partly offset by lower professional and other contracted services, rent, and selling and promotions expenses.

Depreciation and amortization charges decreased by Php11,998 million, or 33%, to Php24,778 million, on account of lower depreciation due to shortened life of certain data network platform and other technology equipment resulting from the ongoing transformation projects which commenced in the previous year, to improve and simplify the network and systems applications.

Cost of sales and services increased by Php1,175 million, or 13%, to Php9,989 million, primarily due to higher issuances of mobile handsets and cost of SIM packs.

Interconnection costs decreased by Php1,906 million, or 30%, to Php4,467 million, primarily due to lower interconnection cost on domestic voice and SMS services, mainly due to the impact of reduction in interconnection rates for voice and SMS, as well as lower interconnection charges on international SMS and data roaming services.

Provisions decreased by Php18 million, or 1%, to Php2,173 million, primarily due to lower provision for inventory obsolescence.

Asset impairment decreased by Php2,767 million, or 71%, to Php1,146 million primarily due to the impairment of certain network equipment in 2017 which were rendered obsolete due to technological advancements as a result of continuing network transformation projects.

Other Income (Expenses) – Net

The following table summarizes the breakdown of our total wireless-related other income (expenses) for the years ended December 31, 2018 and 2017:

	2018	2017	Change	
			Amount	%
	(in millions)			
Other Income (Expenses) - net:				
Financing costs – net	(Php1,865)	(Php2,247)	Php382	17
Foreign exchange losses – net	(125)	(57)	(68)	(119)
Equity share in net earnings (losses) of associates	62	(129)	191	148
Gain on derivative financial instruments – net	449	282	167	59
Interest income	719	305	414	136
Other income – net	135	1,923	(1,788)	(93)
Total	(Php625)	Php77	(Php702)	(912)

Our Wireless business segment's other expenses amounted to Php625 million in 2018, a change of Php702 million as against other income of Php77 million in 2017, primarily due to the net effects of the following: (i) lower other income – net by Php1,788 million mainly due to lower income from consultancy and other miscellaneous income, partly offset by lower impairment on Smart's investment in AFPI; (ii) higher net foreign exchange losses by Php68 million; (iii) higher net gains on derivative financial instruments by Php167 million; (iv) equity share in net earnings of associates of Php62 million in 2018 as against equity share in net losses of Php129 million in 2017; (v) lower net financing costs by Php382 million mainly due to higher capitalized interest, lower financing charges and lower weighted average loan principal amount, partly offset by higher weighted average interest rates; and (vi) higher interest income by Php414 million mainly due to an increase in principal amount of temporary cash investment, higher weighted average interest rates and higher weighted average rate of the Philippine peso relative to the U.S. dollar.

Provision for (Benefit from) Income Tax

Provision for income tax amounted to Php1,333 million in 2018, a change of Php4,120 million as against benefit from income tax of Php2,787 million, which includes tax impact of depreciation due to shortened life of property and equipment and noncurrent asset impairment recognized in 2017.

Net Income (Loss)

As a result of the foregoing, our Wireless business segment's net income increased by Php7,940 million to Php5,725 million in 2018 as against net losses of Php2,215 million in 2017.

EBITDA

Our Wireless business segment's EBITDA decreased by Php2,160 million, or 6%, to Php34,235 million in 2018 from Php36,395 million in 2017. EBITDA margin decreased to 41% in 2018 from 42% in 2017.

Core Income

Our Wireless business segment's core income decreased by Php52 million to Php9,760 million in 2018 from Php9,812 million in 2017 on account of lower EBITDA, higher provision for income tax and lower other miscellaneous income, partially offset by lower depreciation expense and net financing costs.

Fixed Line

Revenues

Revenues generated from our Fixed Line business segment amounted to Php85,222 million in 2018, an increase of Php6,881 million, or 9%, from Php78,341 million in 2017.

The following table summarizes our total revenues by service from our Fixed Line business segment for the years ended December 31, 2018 and 2017:

	2018	%	2017	%	Increase (Decrease)	
					Amount	%
	(in millions)					
Service Revenues:						
Data	Php55,732	65	Php44,294	57	Php11,438	26
Voice	25,178	30	28,500	36	(3,322)	(12)
Miscellaneous	738	1	1,963	2	(1,225)	(62)
	81,648	96	74,757	95	6,891	9
Non-Service Revenues:						
Sale of computers, phone units and point-product sales	3,574	4	3,584	5	(10)	—
Total Fixed Line Revenues	Php85,222	100	Php78,341	100	Php6,881	9

Service Revenues

Our fixed line service revenues increased by Php6,891 million, or 9%, to Php81,648 million in 2018 from Php74,757 million in 2017, due to higher revenues from our data services, partially offset by lower voice and miscellaneous service revenues. In the second quarter of 2018, the revenue split allocation between voice and data for our fixed line bundled plans was revised, in favor of data, to reflect the result of a recent network usage study from our Fixed Line business segment.

Data Services

The following table shows information of our data service revenues for the years ended December 31, 2018 and 2017:

	2018	2017	Increase	
			Amount	%
			(in millions)	
Data service revenues	Php55,732	Php44,294	Php11,438	26
Home broadband	26,733	18,054	8,679	48
Corporate data and ICT	28,999	26,240	2,759	11

Our data services posted revenues of Php55,732 million in 2018, an increase of Php11,438 million, or 26%, from Php44,294 million in 2017, primarily due to higher home broadband revenues from DSL and Fibr, higher corporate data and leased lines, and higher data center and ICT revenues. The percentage contribution of this service segment to our fixed line service revenues accounted for 68% and 59% for the years ended December 31, 2018 and 2017, respectively.

Home Broadband

Home broadband data revenues amounted to Php26,733 million in 2018, an increase of Php8,679 million, or 48%, from Php18,054 million in 2017. This growth is driven by increasing demand for broadband services which the company is providing through its existing copper network and a nationwide roll-out of its fiber-to-the-home, or FTTH, network, and the transfer of *Utera* and *WiMAX* businesses from SBI, as well as the impact of the revised revenue split allocation. Home broadband revenues accounted for 48% and 41% of total data service revenues in the years ended December 31, 2018 and 2017, respectively. In 2018, PLDT's FTTH nationwide network rollout has passed 6.3 million homes.

Corporate Data and ICT

Corporate data services amounted to Php23,991 million in 2018, an increase of Php1,102 million, or 5%, as compared with Php22,889 million in 2017, mainly due to sustained market traction of internet services, such as Dedicated Internet Access and FibrBiz, as a result of higher internet connectivity requirements, and key Multiprotocol Label Switching solutions, such as IP-VPN, Metro Ethernet and *Shops.Work*. Corporate data revenues accounted for 43% and 52% of total data services in the years ended December 31, 2018 and 2017, respectively.

ICT revenues increased by Php1,657 million, or 49%, to Php5,008 million in 2018 from Php3,351 million in 2017 mainly due to higher revenues from colocation and managed IT services. The percentage contribution of this service segment to our total data service revenues accounted for 9% and 7% in the years ended December 31, 2018 and 2017, respectively.

Voice Services

Revenues from our voice services decreased by Php3,322 million, or 12%, to Php25,178 million in 2018 from Php28,500 million in 2017, primarily due to lower revenues from local exchange and domestic services. The decline was partly due to the continued popularity of services such as Skype, Viber, Line, Facebook Messenger, Google Talk and WhatsApp, offering free OTT calling services, and other similar services, as well as the impact of the revised revenue split allocation. The percentage contribution of voice service revenues to our fixed line service revenues accounted for 31% and 38% for the years ended December 31, 2018 and 2017, respectively.

Miscellaneous Services

Miscellaneous service revenues are derived mostly from rentals and management fees. These service revenues decreased by Php1,225 million, or 62%, to Php738 million in 2018 from Php1,963 million in 2017 mainly due to lower management fees. The percentage contribution of miscellaneous service revenues to our total fixed line service revenues accounted for 1% and 3% for the years ended December 31, 2018 and 2017, respectively.

Non-service Revenues

Non-service revenues decreased by Php10 million to Php3,574 million in 2018 from Php3,584 million in 2017, primarily due to lower sale of hardware and software, and *Fabtab* for *myDSL* retention, partly offset by higher sale of computer bundles, managed ICT equipment, and *Utera* devices, combined with the impact of PFRS 15 adjustment.

Expenses

Expenses related to our Fixed Line business segment totaled Php77,782 million in 2018, an increase of Php13,918 million, or 22%, as compared with Php63,864 million in 2017. The increase was primarily due to higher depreciation

and amortization, selling, general and administrative expenses, provisions, asset impairment, and interconnection costs. As a percentage of our total fixed line revenues, expenses associated with our Fixed Line business segment accounted for 91% and 82% for the years ended December 31, 2018 and 2017, respectively.

The following table shows the breakdown of our total fixed line-related expenses for the years ended December 31, 2018 and 2017 and the percentage of each expense item in relation to the total:

	2018	%	2017	%	Increase (Decrease)	
					Amount	%
	(in millions)					
Selling, general and administrative expenses	Php41,065	53	Php37,390	59	Php3,675	10
Depreciation and amortization	22,303	29	15,001	23	7,302	49
Interconnection costs	5,145	7	4,587	7	558	12
Cost of sales and services	4,523	6	4,788	8	(265)	(6)
Provisions	3,547	4	2,098	3	1,449	69
Asset impairment	1,199	1	—	—	1,199	100
Total	Php77,782	100	Php63,864	100	Php13,918	22

Selling, general and administrative expenses increased by Php3,675 million, or 10%, to Php41,065 million primarily due to higher professional and other contracted services, repairs and maintenance, rent, and selling and promotions expenses, partly offset by lower compensation and employee benefits, mainly as a result of lower incentive plan and MRP costs.

Depreciation and amortization charges increased by Php7,302 million, or 49%, to Php22,303 million mainly due to a higher depreciable asset base and depreciation due to shortened life of certain network equipment resulting from the modernization of facilities to adopt more effective technologies, such as VVDSL and FTTH.

Interconnection costs increased by Php558 million, or 12%, to Php5,145 million, primarily due to higher international interconnection costs, as a result of an increase in international inbound calls that terminated to other domestic carriers, partly offset by lower domestic interconnection costs.

Cost of sales and services decreased by Php265 million, or 6%, to Php4,523 million, primarily due to lower cost of hardware and software, *Fabtab* for *myDSL* retention, and *TVolution* units, partly offset by higher cost of services.

Provisions increased by Php1,449 million, or 69%, to Php3,547 million, primarily due to higher expected credit losses mainly due to lower collection efficiency by 1% and provision for unbilled receivables relating to devices, as well as higher provision for inventory obsolescence due to provision for network materials resulting from the modernization of facilities.

Asset impairment amounted to Php1,199 million in 2018 primarily due to the impairment provision for property and equipment of Digitel.

Other Income (Expenses) – Net

The following table summarizes the breakdown of our total fixed line-related other income (expenses) for the years ended December 31, 2018 and 2017:

	2018	2017	Change	
			Amount	%
	(in millions)			
Other Income (Expenses) - net:				
Financing costs – net	(Php5,195)	(Php5,106)	(Php89)	(2)
Foreign exchange losses	(58)	(98)	40	41
Equity share in net earnings of associates	171	44	127	289
Gains on derivative financial instruments – net	355	251	104	41
Interest income	812	695	117	17
Other income – net	3,870	891	2,979	334
Total	(Php45)	(Php3,323)	Php3,278	99

Our Fixed Line business segment's other expenses amounted to Php45 million in 2018, a decrease of Php3,278 million, or 99%, from Php3,323 million in 2017, mainly due to the combined effects of the following: (i) higher other income – net by Php2,979 million, mainly due to the impairment of investment in Hastings PDRs in 2017 while nil in 2018, and higher other miscellaneous income; (ii) higher equity share in net earnings of associates by Php127 million; (iii) higher interest income by Php117 million; (iv) higher net gains on derivative financial instruments by Php104 million; (v) lower foreign exchange losses by Php40 million; and (vi) higher net financing costs by Php89 million.

Provision for Income Tax

Provision for income tax amounted to Php1,336 million in 2018, a decrease of Php2,344 million, or 64%, from Php3,680 million in 2017, mainly due to lower taxable income.

Net Income

As a result of the foregoing, our Fixed Line business segment registered a net income of Php6,059 million in 2018, a decrease of Php1,415 million, or 19%, as compared with Php7,474 million in 2017.

EBITDA

Our Fixed Line business segment's EBITDA increased by Php1,397 million, or 5%, to Php30,875 million in 2018 from Php29,478 million in 2017. EBITDA margin decreased to 38% in 2018 from 39% in 2017.

Core Income

Our Fixed Line business segment's core income decreased by Php1,921 million, or 22%, to Php6,925 million in 2018 from Php8,846 million in 2017, primarily as a result of higher depreciation expense, partially offset by higher EBITDA and lower provision for income tax.

Others

Revenues

Revenues generated from our Other business segment, which include revenues from digital platforms and mobile financial services, amounted to Php1,138 million in 2018, a decrease of Php141 million, or 11%, from Php1,279 million in the same period in 2017, due mainly to the deconsolidation of VIH.

Expenses

Expenses related to our Other business segment totaled Php4,093 million in 2018, an increase of Php1,319 million, or 48%, from Php2,774 million in the same period in 2017, due to higher selling, general and administrative expenses of VIH.

Other Income (Expenses) – Net

The following table summarizes the breakdown of our Other business segment's other income (expenses) for the years ended December 31, 2018 and 2017:

	2018	2017	Change Amount	%
			(in millions)	
Other Income (Expenses) - net:				
Gain on deconsolidation of VIH	Php12,054	Php—	Php12,054	100
Interest income	536	655	(119)	(18)
Gain on derivative financial instruments – net	282	—	282	100
Financing costs – net	(131)	(214)	83	39
Equity share in net earnings (losses) of associates and joint ventures	(320)	2,991	(3,311)	(111)
Foreign exchange losses	(588)	(256)	(332)	(130)
Other income – net	266	7,354	(7,088)	(96)
Total	Php12,099	Php10,530	Php1,569	15

Our Other business segment's other income amounted to Php12,099 million in 2018, an increase of Php1,569 million, or 15%, from Php10,530 million in 2017, primarily due to the combined effects of the following: (i) gain on the deconsolidation of VIH of Php12,054 million in 2018; (ii) net gains on derivative financial instruments of Php282 million in 2018; (iii) lower net financing costs by Php83 million; (iv) lower interest income by Php119 million; (v) higher net foreign exchange losses by Php332 million; and (vi) equity share in net losses of associates and joint ventures of Php320 million in 2018 as against equity share in net earnings of associates and joint ventures of Php2,991 million in 2017 mainly due to sale of Beacon shares and SPi Global in 2017; and (vii) lower other income – net by Php7,088 million mainly due to gain on sale of Beacon shares and gain on conversion of iflix convertible notes in 2017, and unrealized loss on fair value of iflix investment in 2018, partly offset by realized gain on fair value of Rocket Internet investment in 2018.

Net Income

As a result of the foregoing, our Other business segment registered a net income of Php7,971 million in 2018, a decrease of Php854 million, or 10%, from Php8,825 million in 2017.

EBITDA

Our Other business segment's EBITDA amounted to negative Php2,688 million in 2018, an increase of Php1,381 million, or 106%, from negative Php1,307 million in 2017.

Core Income

Our Other business segment's core income amounted to Php9,952 million in 2018, an increase of Php324 million, or 3%, as compared with Php9,628 million in 2017, primarily as a result of higher miscellaneous income, partially offset by equity share in net losses of associates and joint ventures in 2018, higher negative EBITDA and higher provision for income tax.

Years ended December 31, 2017 and 2016

On a Consolidated Basis

Revenues

We reported consolidated revenues of Php158,933 million in 2017, a decrease of Php5,513 million, or 3%, as compared with Php164,446 million in 2016, primarily due to lower revenues from mobile and home broadband services in our Wireless business segment, partially offset by higher revenues from data services in our Fixed Line business segment.

The following table shows the breakdown of our consolidated revenues by services for the years ended December 31, 2017 and 2016:

	Wireless	Fixed Line	Others	Inter-segment Transactions	Consolidated
(in millions)					
For the year ended December 31, 2017					
Service Revenues					
<i>Wireless</i>	<i>Php87,412</i>			<i>(Php1,284)</i>	<i>Php86,128</i>
Mobile	84,439			(1,273)	83,166
Home broadband	2,556			(9)	2,547
MVNO and others	417			(2)	415
<i>Fixed Line</i>		<i>Php74,757</i>		<i>(11,939)</i>	<i>62,818</i>
Data		44,294		(6,849)	37,445
Home broadband		18,054		(245)	17,809
Corporate data and ICT		26,240		(6,604)	19,636
Voice		28,500		(4,197)	24,303
Miscellaneous		1,963		(893)	1,070
<i>Others</i>			<i>Php1,256</i>	<i>(30)</i>	<i>1,226</i>
Total Service Revenues	87,412	74,757	1,256	(13,253)	150,172
Non-Service Revenues					
Sale of computers, phone units, mobile handsets SIM-packs	5,160	2,724	23	(18)	7,889
Point-product sales	–	860	–	12	872
Total Non-Service Revenues	5,160	3,584	23	(6)	8,761
Total Revenues	92,572	78,341	1,279	(13,259)	158,933
For the year ended December 31, 2016					
Service Revenues					
<i>Wireless</i>	<i>99,854</i>			<i>(1,448)</i>	<i>98,406</i>
Mobile	96,497			(1,431)	95,066
Home broadband	2,772			(14)	2,758
MVNO and others	585			(3)	582
<i>Fixed Line</i>		<i>69,006</i>		<i>(11,736)</i>	<i>57,270</i>
Voice		29,630		(4,944)	24,686
Data		37,711		(5,984)	31,727
Home broadband		14,896		(167)	14,729
Corporate data and ICT		22,815		(5,817)	16,998
Voice		29,630		(4,944)	24,686
Miscellaneous		1,665		(808)	857
<i>Others</i>			<i>748</i>	<i>(30)</i>	<i>718</i>
Total Service Revenues	99,854	69,006	748	(13,214)	156,394
Non-Service Revenues					
Sale of computers, phone units, mobile handsets and SIM-packs	4,233	2,909	99	(2)	7,239
Point-product sales	–	813	–	–	813
Total Non-Service Revenues	4,233	3,722	99	(2)	8,052
Total Revenues	Php104,087	Php72,728	Php847	(Php13,216)	Php164,446

The following table shows the breakdown of our consolidated revenues by business segment for the years ended December 31, 2017 and 2016:

	2017	%	2016	%	Change	
					Amount	%
(in millions)						
Wireless	Php92,572	58	Php104,087	63	(Php11,515)	(11)
Fixed line	78,341	49	72,728	44	5,613	8
Others ⁽¹⁾	1,279	1	847	1	432	51
Inter-segment transactions	(13,259)	(8)	(13,216)	(8)	(43)	–
Consolidated	Php158,933	100	Php164,446	100	(Php5,513)	(3)

⁽¹⁾ Other business segment includes revenues from digital platforms and mobile financial services.

Expenses

Consolidated expenses increased by Php9,679 million, or 7%, to Php149,422 million in 2017 from Php139,743 million in 2016, primarily due to higher expenses in our Wireless business segment resulting from higher depreciation and amortization, and asset impairment.

The following table shows the breakdown of our consolidated expenses by business segment for the years ended December 31, 2017 and 2016:

	2017	%	2016	%	Change	
					Amount	%
	(in millions)					
Wireless	Php97,651	65	Php91,623	66	Php6,028	7
Fixed line	63,864	43	61,285	44	2,579	4
Others	2,774	2	1,623	1	1,151	71
Inter-segment transactions	(14,867)	(10)	(14,788)	(11)	(79)	(1)
Consolidated	Php149,422	100	Php139,743	100	Php9,679	7

Other Income (Expenses) – Net

Consolidated other income amounted to Php5,058 million in 2017, a change of Php7,690 million as against other expenses of Php2,632 million in 2016, primarily due to lower impairment on the Rocket Internet investment, higher equity share in net earnings of Asia Outsourcing Beta Limited, or Beta, resulting from the gain on sale of SPi Technologies, Inc., or SPi, and gain on conversion of iflix convertible notes in our Other business segment and lower net foreign exchange losses in our Wireless business segment, partially offset by impairment of investment in Hastings PDRs and lower gain on sale of properties in our Fixed Line business segment.

The following table shows the breakdown of our consolidated other income (expenses) – net by business segment for the years ended December 31, 2017 and 2016:

	2017	2016	Change	
			Amount	%
	(in millions)			
Wireless	Php77	(Php3,103)	Php3,180	102
Fixed line	(3,323)	(291)	(3,032)	(1,042)
Others	10,530	2,334	8,196	351
Inter-segment transactions	(2,226)	(1,572)	(654)	(42)
Consolidated	Php5,058	(Php2,632)	Php7,690	292

Net Income (Loss)

Consolidated net income decreased by Php6,696 million, or 33%, to Php13,466 million in 2017, from Php20,162 million in 2016, primarily due to the Php12,973 million decrease in net income in our Wireless business segment, partially offset by Php7,555 million increase in net income from our Other business segment. Our consolidated basic and diluted EPS decreased to Php61.61 for the year ended December 31, 2017 from Php92.33 in 2016. Our weighted average number of outstanding common shares was approximately 216.06 million in each of 2017 and 2016.

The following table shows the breakdown of our consolidated net income by business segment for the years ended December 31, 2017 and 2016:

	2017	%	2016	%	Change	
					Amount	%
	(in millions)					
Wireless	(Php2,215)	(17)	Php10,618	53	(Php12,833)	(121)
Fixed line	7,474	56	8,134	40	(660)	(8)
Others	8,825	66	1,410	7	7,415	526
Inter-segment transactions	(618)	(5)	–	–	(618)	(100)
Consolidated	Php13,466	100	Php20,162	100	(Php6,696)	(33)

EBITDA

Our consolidated EBITDA amounted to Php66,174 million in 2017, an increase of Php5,013 million, or 8%, as compared with Php61,161 million in 2016, primarily due to improved EBITDA in our Fixed Line and Wireless business segments.

The following table shows the breakdown of our consolidated EBITDA by business segment for the years ended December 31, 2017 and 2016:

	2017	%	2016	%	Change	
					Amount	%
	(in millions)					
Wireless	Php36,395	55	Php32,915	54	Php3,480	11
Fixed line	29,478	45	26,950	44	2,528	9
Others	(1,307)	(2)	(276)	–	(1,031)	(374)
Inter-segment transactions	1,608	2	1,572	2	36	2
Consolidated	Php66,174	100	Php61,161	100	Php5,013	8

Core Income

Our consolidated core income amounted to Php27,668 million in 2017, a decrease of Php189 million, or 1%, as compared with Php27,857 million in 2016 primarily due to a decrease in core income from our Wireless business segment as a result of higher depreciation expense, partially offset by higher core income in each of our Other and Fixed Line business segments. Our consolidated basic and diluted core EPS, decreased to Php127.79 in 2017 from Php128.66 in 2016.

The following table shows the breakdown of our consolidated core income by business segment for the years ended December 31, 2017 and 2016:

	2017	%	2016	%	Change	
					Amount	%
	(in millions)					
Wireless	Php9,812	35	Php12,275	44	(Php2,463)	(20)
Fixed line	8,846	32	7,746	28	1,100	14
Others	9,628	35	7,836	28	1,792	23
Inter-segment transactions	(618)	(2)	–	–	(618)	(100)
Consolidated	Php27,668	100	Php27,857	100	(Php189)	(1)

On a Business Segment Basis

Wireless

Revenues

We generated revenues of Php92,572 million from our wireless business in 2017 a decrease of Php11,515 million, or 11%, from Php104,087 million in 2016.

The following table summarizes our total revenues by service from our wireless business for the years ended December 31, 2017 and 2016:

	2017	%	2016	%	Increase (Decrease)	
					Amount	%
	(in millions)					
Service Revenues:						
Mobile	Php84,439	91	Php96,497	93	(Php12,058)	(12)
Home broadband	2,556	3	2,772	3	(216)	(8)
MVNO and others ⁽¹⁾	417	–	585	–	(168)	(29)
Total Wireless Service Revenues	87,412	94	99,854	96	(12,442)	(12)
Non-Service Revenues:						
Sale of mobile handsets, SIM-packs and broadband data modems	5,160	6	4,233	4	927	22
Total Wireless Revenues	Php92,572	100	Php104,087	100	(Php11,515)	(11)

⁽¹⁾ Includes service revenues generated by MVNOs of PLDT Global subsidiaries.

Service Revenues

Our wireless service revenues in 2017 decreased by Php12,442 million, or 12%, to Php87,412 million as compared with Php99,854 million in 2016, mainly as a result of lower revenues from mobile services and home broadband services. As a percentage of our total wireless revenues, service revenues accounted for 94% and 96% for the years ended December 31, 2017 and 2016, respectively.

Mobile Services

Our mobile service revenues amounted to Php84,439 million in 2017, a decrease of Php12,058 million, or 12%, from Php96,497 million in 2016. Mobile service revenues accounted for 97% of our wireless service revenues in each of the years ended December 31, 2017 and 2016.

The following table shows the breakdown of our mobile service revenues for the years ended December 31, 2017 and 2016:

	2017	%	2016	%	Increase (Decrease)	
					Amount	%
	(in millions)					
Mobile Services:						
Voice	Php30,724	36	Php37,094	38	(Php6,370)	(17)
SMS	26,045	31	32,745	34	(6,700)	(20)
Data	26,281	31	25,517	27	764	3
Inbound roaming and others ⁽¹⁾	1,389	2	1,141	1	248	22
Total	Php84,439	100	Php96,497	100	(Php12,058)	(12)

⁽¹⁾ Refers to other non-subscriber-related revenues consisting primarily of inbound international roaming fees and share in revenues from Smart Money.

Voice Services

Mobile revenues from our voice services, which include all voice traffic, decreased by Php6,370 million, or 17%, to Php30,724 million in 2017 from Php37,094 million in 2016, mainly on account of lower domestic and international voice revenues due to the availability of alternative calling options and other OTT services. Mobile voice services accounted for 36% and 38% of our mobile service revenues for the years ended December 31, 2017 and 2016, respectively.

Domestic voice service revenues decreased by Php4,530 million, or 16%, to Php24,136 million in 2017 from Php28,666 million in 2016, due to lower domestic outbound and inbound voice service revenues.

International voice service revenues decreased by Php1,840 million, or 22%, to Php6,588 million in 2017 from Php8,428 million in 2016, primarily due to lower international inbound and outbound voice service revenues as a result of lower international voice traffic, partially offset by the effect of higher weighted average rate of the Philippine peso relative to the U.S. dollar.

SMS Services

Mobile revenues from our SMS services, which include all SMS-related services and VAS, decreased by Php6,700 million, or 20%, to Php26,045 million in 2017 from Php32,745 million in 2016 mainly due to declining SMS volumes as a result of alternative text messaging options, such as OTT services and social media. Mobile SMS services accounted for 31% and 34% of our mobile service revenues for the years ended December 31, 2017 and 2016, respectively.

Data Services

Mobile revenues from our data services, which include mobile internet, mobile broadband and other data services, increased by Php764 million, or 3%, to Php26,281 million in 2017 from Php25,517 million in 2016 as a result of increased mobile internet usage, partially offset by lower revenues from mobile broadband.

The following table shows the breakdown of our mobile data service revenues for the years ended December 31, 2017 and 2016:

	2017	%	2016	%	Increase (Decrease)	
					Amount	%
	(in millions)					
Data Services:						
Mobile internet ⁽¹⁾	Php20,086	76	Php17,167	67	Php2,919	17
Mobile broadband	6,030	23	8,147	32	(2,117)	(26)
Other data	165	1	203	1	(38)	(19)
Total	Php26,281	100	Php25,517	100	Php764	3

⁽¹⁾ Includes revenues from web-based services, net of discounts and content provider costs.

Mobile internet

Mobile internet service revenues increased by Php2,919 million, or 17%, to Php20,086 million in 2017 from Php17,167 million in 2016 as a result of the increase in smartphone ownership and greater data usage among our subscriber base leading to an increase in mobile internet browsing and prevalent use of mobile apps, social networking sites and other OTT services. Mobile internet services accounted for 24% and 18% of our mobile service revenues for the years ended December 31, 2017 and 2016, respectively.

Mobile broadband

Mobile broadband revenues amounted to Php6,030 million in 2017, a decrease of Php2,117 million, or 26%, from Php8,147 million in 2016, primarily due to a decrease in the number of subscribers, mainly *Sun Broadband*. Mobile broadband services accounted for 7% and 9% of our mobile service revenues for the years ended December 31, 2017 and 2016, respectively.

Other data

Revenues from our other data services, which include domestic leased lines and share in revenue from PLDT *WeRoam*, decreased by Php38 million, or 19%, to Php165 million in 2017 from Php203 million in 2016.

Inbound Roaming and Others

Mobile revenues from inbound roaming and other services increased by Php248 million, or 22%, to Php1,389 million in 2017 from Php1,141 million in 2016.

The following table shows the breakdown of our mobile service revenues by service type for the years ended December 31, 2017 and 2016:

	2017	2016	Increase (Decrease)	
			Amount	%
	(in millions)			
Mobile service revenues	Php84,439	Php96,497	(Php12,058)	(12)
<i>By service type</i>				
Prepaid	59,862	67,304	(7,442)	(11)
Postpaid	23,188	28,052	(4,864)	(17)
Inbound roaming and others	1,389	1,141	248	22

Prepaid Revenues

Revenues generated from our mobile prepaid services amounted to Php59,862 million in 2017, a decrease of Php7,442 million, or 11%, as compared with Php67,304 million in 2016. Mobile prepaid service revenues accounted for 71% and 70% of mobile service revenues for the years ended December 31, 2017 and 2016, respectively. The decrease in revenues from our mobile prepaid services was primarily driven by a lower mobile prepaid subscriber base resulting in lower voice and SMS revenues, partially offset by the increase in mobile internet revenues.

Postpaid Revenues

Revenues generated from mobile postpaid service amounted to Php23,188 million in 2017, a decrease of Php4,864 million, or 17%, as compared with Php28,052 million in 2016, and accounted for 27% and 29% of mobile service revenues for the years ended December 31, 2017 and 2016, respectively. The decrease in our mobile postpaid service revenues was primarily due to a lower postpaid subscriber base.

Subscriber Base, ARPU and Churn Rates

The following table shows our wireless subscriber base as at December 31, 2017 and 2016:

	2017	2016	Increase (Decrease)	
			Amount	%
Mobile subscriber base	58,293,908	62,763,209	(4,469,301)	(7)
Smart ⁽¹⁾	21,821,441	23,027,793	(1,206,352)	(5)
Prepaid ⁽²⁾	20,433,351	21,643,963	(1,210,612)	(6)
Postpaid	1,388,090	1,383,830	4,260	-
TNT	28,807,964	29,845,509	(1,037,545)	(3)
Sun ⁽¹⁾	7,664,503	9,889,907	(2,225,404)	(23)
Prepaid ⁽²⁾	6,535,331	8,463,469	(1,928,138)	(23)
Postpaid	1,129,172	1,426,438	(297,266)	(21)
Home broadband subscriber base	237,354	270,203	(32,849)	(12)
Total wireless subscribers	58,531,262	63,033,412	(4,502,150)	(7)

⁽¹⁾ Includes mobile broadband subscribers.

⁽²⁾ Beginning 2Q2017, the prepaid subscriber base excludes subscribers who did not reload within 90 days vis-à-vis 120 days previous cut-off.

The average monthly churn rate for *Smart Prepaid* subscribers in 2017 and 2016 were 6.7% and 7.6%, respectively, while the average monthly churn rate for *TNT* subscribers were 6.8% and 6.3% in 2017 and 2016, respectively. The average monthly churn rate for *Sun Prepaid* subscribers were 7.7% and 8.8% in 2017 and 2016, respectively.

The average monthly churn rate for *Smart Postpaid* subscribers were 2.3% and 4.8% in 2017 and 2016, respectively, and 3.5% and 6.4% in 2017 and 2016, respectively, for *Sun Postpaid* subscribers.

The following table summarizes our average monthly ARPUs for the years ended December 31, 2017 and 2016:

	Gross ⁽¹⁾		Increase (Decrease)		Net ⁽²⁾		Increase (Decrease)	
	2017	2016	Amount	%	2017	2016	Amount	%
Prepaid								
Smart	Php118	Php117	Php1	1	Php108	Php107	Php 1	1
TNT	81	82	(1)	(1)	74	76	(2)	(3)
Sun	88	90	(2)	(2)	82	83	(1)	(1)
Postpaid								
Smart	1,004	966	38	4	972	951	21	2
Sun	422	443	(21)	(5)	418	437	(19)	(4)

⁽¹⁾ Gross monthly ARPU is calculated by dividing gross cellular service revenues for the month, including interconnection income but excluding inbound roaming revenues, gross of discounts, and content provider costs, by the average number of subscribers in the month.

⁽²⁾ Net monthly ARPU is calculated by dividing gross cellular service revenues for the month, including interconnection income, but excluding inbound roaming revenues, net of discounts and content provider costs, by the average number of subscribers in the month.

Home Broadband

Revenues from our *Home Ultra* services decreased by Php216 million, or 8%, to Php2,556 million in 2017 from Php2,772 million in 2016, due mainly to the continued migration of our high-value fixed wireless subscribers from legacy technologies (Canopy & WiMAX) to wired broadband (digital subscriber line, or DSL/FTTH). In addition, we offer lower-priced plan offerings as part of our efforts to expand our customer base to include lower income home segments.

Subscribers of our Home Ultra services decreased by 32,849, or 12%, to 237,354 subscribers as at December 31, 2017 from 270,203 subscribers as at December 31, 2016.

MVNO and Others

Revenues from our MVNO and other services decreased by Php168 million, or 29%, to Php417 million in 2017 from Php585 million in 2016, primarily due to lower revenue contribution from MVNOs of PLDT Global and ACeS Philippines, partially offset by the impact of higher weighted average rate of the Philippine peso relative to the U.S. dollar.

Non-Service Revenues

Our wireless non-service revenues consist of sales of mobile handsets, SIM-packs, mobile broadband data modems, tablets and accessories. Our wireless non-service revenues increased by Php927 million, or 22%, to Php5,160 million in 2017 from Php4,233 million in 2016, primarily due to lower subsidy on postpaid mobile handsets, partly offset by the decline in revenues from prepaid mobile handsets and broadband data modems attributable to lower average price per unit.

Expenses

Expenses associated with our Wireless business segment amounted to Php97,651 million in 2017, an increase of Php6,028 million, or 7%, from Php91,623 million in 2016. A significant portion of the increase was mainly attributable to higher depreciation and amortization, and noncurrent asset impairment, partially offset by lower provisions, cost of sales and services, interconnection costs, and selling, general and administrative expenses. As a percentage of our total wireless revenues, expenses associated with our wireless business accounted for 105% and 88% for the years ended December 31, 2017 and 2016, respectively.

The following table summarizes the breakdown of our total wireless-related expenses for the years ended December 31, 2017 and 2016 and the percentage of each expense item in relation to the total:

	2017	%	2016	%	Increase (Decrease)	
					Amount	%
	(in millions)					
Selling, general and administrative expenses	Php39,584	41	Php41,472	45	(Php1,888)	(5)
Depreciation and amortization	36,776	38	18,767	20	18,009	96
Cost of sales and services	8,814	9	14,333	16	(5,519)	(39)
Interconnection costs	6,373	6	8,035	9	(1,662)	(21)
Asset impairment	3,913	4	785	1	3,128	398
Provisions	2,191	2	8,231	9	(6,040)	(73)
Total	Php97,651	100	Php91,623	100	Php6,028	7

Selling, general and administrative expenses decreased by Php1,888 million, or 5%, to Php39,584 million, primarily due to lower expenses related to selling and promotions, repairs and maintenance, insurance and security services, and professional and other contracted services, partly offset by higher rent expenses and compensation and employee benefits.

Depreciation and amortization charges increased by Php18,099 million, or 96%, to Php36,776 million, primarily due to higher depreciable asset base and depreciation due to shortened life of certain data network platform and other technology equipment resulting from the transformation projects to improve and simplify the network and systems applications.

Cost of sales and services decreased by Php5,519 million, or 39%, to Php8,814 million, primarily due to lower issuances of mobile handsets and mobile broadband data modems, partly offset by higher cost of licenses from various partnership with content providers.

Interconnection costs decreased by Php1,662 million, or 21%, to Php6,373 million, primarily due to lower interconnection cost on domestic voice and SMS services, mainly as a result of lower interconnection rates, and lower interconnection costs on international voice and SMS services, partially offset by an increase in interconnection charges on international data roaming services.

Asset impairment increased by Php3,128 million, or 398%, to Php3,913 million, primarily due to impairment of certain network equipment, which were rendered obsolete due to technological advancements as a result of the continuing network transformation projects.

Provisions decreased by Php6,040 million, or 73% to Php2,191 million, mainly due to lower provisions for doubtful accounts and inventory obsolescence, primarily driven by a 16% year-on-year decline in our postpaid service revenues and an improvement of our year-on-year collection efficiency from 89% to 90%, both of which resulted in the decrease of our billed subscribers receivable for postpaid services and in turn a decline in our provision for doubtful accounts, and a one-time provision taken in 2016 relating to the migration of our billing system for postpaid accounts for our Sun Cellular brand to Smart's billing system, and the resulting alignment of provisioning policies related to receivables and inventories.

Other Income (Expenses) – Net

The following table summarizes the breakdown of our total wireless-related other income (expenses) – net for the years ended December 31, 2017 and 2016:

	2017	2016	Change	
			Amount	%
	(in millions)			
Other Income (Expenses) - net:				
Financing costs – net	(Php2,247)	(Php2,482)	Php235	9
Equity share in net losses of associates	(129)	(127)	(2)	(2)
Foreign exchange losses – net	(57)	(1,653)	1,596	97
Gain on derivative financial instruments – net	282	485	(203)	(42)
Interest income	305	269	36	13
Other income – net	1,923	405	1,518	375
Total	Php77	(Php3,103)	Php3,180	102

Our Wireless business segment's other income amounted to Php77 million in 2017, an increase of Php3,180 million, or 102%, as against other expenses of Php3,103 million in 2016, primarily due to the combined effects of the following: (i) lower net foreign exchange losses by Php1,596 million on account of revaluation of foreign currency-denominated assets and liabilities due to the lower level of depreciation of the Philippine peso relative to the U.S. dollar; (ii) higher other income – net by Php1,518 million mainly due to higher miscellaneous income, partly offset by the impairment on Smart's investment in AF Payments, Inc., or AFPI, and lower income from consultancy; (iii) lower net financing costs by Php235 million; (iv) higher interest income by Php36 million; (v) higher equity share in net losses of associates by Php2 million; and (vi) lower net gains on derivative financial instruments by Php203 million.

Benefit from Income Tax

Benefit from income tax amounted to Php2,787 million in 2017, an increase of Php1,530 million from Php1,257 million in 2016, primarily due to the tax impact of depreciation due to shortened life of property and equipment, and asset impairment recognized for the year.

Net Income (Loss)

As a result of the foregoing, our Wireless business segment's net loss amounted to Php2,215 million in 2017, a change of Php12,833 million as against net income of Php10,618 million in 2016.

EBITDA

Our Wireless business segment's EBITDA increased by Php3,480 million, or 11%, to Php36,395 million in 2017 from Php32,915 million in 2016. EBITDA margin increased to 42% in 2017 from 33% in 2016.

Core Income

Our Wireless business segment's core income decreased by Php2,463 million, or 20%, to Php9,812 million in 2017 from Php12,275 million in 2016 mainly on account of higher depreciation expense, partly offset by higher EBITDA.

Fixed Line

Revenues

Revenues generated from our Fixed Line business segment amounted to Php78,341 million in 2017, an increase of Php5,613 million, or 8%, from Php72,728 million in 2016.

The following table summarizes our total revenues by service from our fixed line business for the years ended December 31, 2017 and 2016 :

	2017	%	2016	%	Increase (Decrease)	
					Amount	%
	(in millions)					
Service Revenues:						
Voice	Php28,500	36	Php29,630	41	(Php1,130)	(4)
Data	44,294	57	37,711	52	6,583	17
Miscellaneous	1,963	2	1,665	2	298	18
	74,757	95	69,006	95	5,751	8
Non-Service Revenues:						
Sale of computers, phone units and point-product sales	3,584	5	3,722	5	(138)	(4)
Total Fixed Line Revenues	Php78,341	100	Php72,728	100	Php5,613	8

Service Revenues

Our fixed line service revenues increased by Php5,751 million, or 8%, to Php74,757 million in 2017 from Php69,006 million in 2016, due to higher revenues from our data and miscellaneous services, partially offset by lower voice service revenues.

Voice Services

Revenues from our voice services decreased by Php1,130 million, or 4%, to Php28,500 million in 2017 from Php29,630 million in 2016, primarily due to lower international (partly due to the continued popularity of services such as *Skype*, *Uber*, *Line*, *Facebook Messenger*, *Googletalk* and *Whats App*, offering free on-net calling services, and other similar services), and domestic services, partially offset by higher revenues from local exchange.

Data Services

The following table shows information of our data service revenues for the years ended December 31, 2017 and 2016:

	2017	2016	Increase	
			Amount	%
Data service revenues (in millions)	Php44,294	Php37,711	Php6,583	17
Home broadband	18,054	14,896	3,158	21
Corporate data and ICT	26,240	22,815	3,425	15

Our data services posted revenues of Php44,294 million in 2017, an increase of Php6,583 million, or 17%, from Php37,711 million in 2016, primarily due to higher home broadband revenues from DSL and *Fibr*, an increase in corporate data and leased lines primarily i-Gate, Fibernet, Internet Protocol-Virtual Private Network, or IP-VPN, Metro Ethernet and *Shops.Work*, and higher data center and ICT revenues. The percentage contribution of this service segment to our fixed line service revenues accounted for 59% and 55% for the years ended December 31, 2017 and 2016, respectively.

Home Broadband

Home broadband data revenues amounted to Php18,054 million in 2017, an increase of Php3,158 million, or 21%, from Php14,896 million in 2016. This growth is driven by increasing demand for broadband services which the company is providing through its existing copper network and a nationwide roll-out of its FTTH network. Home broadband revenues accounted for 41% and 39% of total data service revenues in the years ended December 31, 2017 and 2016, respectively. PLDT's FTTH nationwide network rollout reached over four million homes passed in 2017.

Corporate Data and ICT

Corporate data services amounted to Php22,889 million in 2017, an increase of Php2,909 million, or 15%, as compared with Php19,980 million in 2016, mainly due to sustained market traction of broadband data services and growth on *Fibr*, as a result of higher internet connectivity requirements, and key Private Networking Solutions such as IP-VPN, Metro Ethernet and *Shops.Work*. Corporate data revenues accounted for 52% and 53% of total data services in the years ended December 31, 2017 and 2016, respectively.

ICT revenues increased by Php516 million, or 18%, to Php3,351 million in 2017 from Php2,835 million in 2016 mainly due to higher revenues from colocation and managed IT services. Cloud services include cloud contact center, cloud infrastructure as a service, cloud software as a service and cloud professional services. The percentage contribution of this service segment to our total data service revenues was 8% in each of 2017 and 2016.

Miscellaneous Services

Miscellaneous service revenues are derived mostly from rental, outsourcing and facilities management fees. These service revenues increased by Php298 million, or 18%, to Php1,963 million in 2017 from Php1,665 million in 2016 mainly due to higher outsourcing and management fees. The percentage contribution of miscellaneous service revenues to our total fixed line service revenues accounted for 3% and 2% in 2017 and 2016, respectively.

Non-service Revenues

Non-service revenues decreased by Php138 million, or 4%, to Php3,584 million in 2017 from Php3,722 million in 2016, primarily due to lower sale of *PLP* and *Telpad* units, and *FabTab* for *myDSL* retention, partly offset by higher computer-bundled, hardware and software sales.

Expenses

Expenses related to our Fixed Line business segment totaled Php63,864 million in 2017, an increase of Php2,579 million, or 4%, as compared with Php61,285 million in 2016. The increase was primarily due to higher selling, general and administrative expenses, cost of sales and services, and provisions, partly offset by lower interconnection costs, depreciation and amortization expenses, and asset impairment. As a percentage of our total fixed line revenues, expenses associated with our fixed line business accounted for 82% and 84% for the years ended December 31, 2017 and 2016, respectively.

The following table shows the breakdown of our total fixed line-related expenses for the years ended December 31, 2017 and 2016 and the percentage of each expense item in relation to the total:

	2017	%	2016	%	Increase (Decrease)	
					Amount	%
	(in millions)					
Selling, general and administrative expenses	Php37,390	59	Php34,248	56	Php3,142	9
Depreciation and amortization	15,001	24	15,471	25	(470)	(3)
Cost of sales and services	4,788	7	3,868	6	920	24
Interconnection costs	4,587	7	5,940	10	(1,353)	(23)
Provisions	2,098	3	1,722	3	376	22
Asset impairment	–	–	36	–	(36)	(100)
Total	Php63,864	100	Php61,285	100	Php2,579	4

Selling, general and administrative expenses increased by Php3,142 million, or 9%, to Php37,390 million primarily due to higher professional and other contracted services, and compensation and employee benefits, partly offset by lower repairs and maintenance costs, and selling and promotions.

Depreciation and amortization charges decreased by Php470 million, or 3%, to Php15,001 million mainly due to a lower depreciable asset base.

Cost of sales and services increased by Php920 million, or 24%, to Php4,788 million, primarily due to various partnerships with content providers.

Interconnection costs decreased by Php1,353 million, or 23%, to Php4,587 million, primarily due to lower international interconnection costs, as a result of a decrease in international inbound calls that terminated to other domestic carriers, and lower domestic interconnection costs.

Provisions increased by Php376 million, or 22%, to Php2,098 million, mainly due to higher provision for doubtful accounts, partly offset by lower provision for inventory obsolescence.

Asset impairment amounted to nil and Php36 million in 2017 and 2016, respectively.

Other Income (Expenses) – Net

The following table summarizes the breakdown of our total fixed line-related other income (expenses) - net for the years ended December 31, 2017 and 2016:

	2017	2016	Change	
			Amount	%
	(in millions)			
Other Income (Expenses) - net:				
Financing costs – net	(Php5,106)	(Php4,917)	(Php189)	(4)
Foreign exchange losses	(98)	(486)	388	80
Equity share in net earnings (losses) of associates	44	(40)	84	210
Gains on derivative financial instruments – net	251	511	(260)	(51)
Interest income	695	707	(12)	(2)
Other income – net	891	3,934	(3,043)	(77)
Total	(Php3,323)	(Php291)	(Php3,032)	(1,042)

Our Fixed Line business segment's other expenses amounted to Php3,323 million in 2017 from Php291 million in 2016, mainly due to the combined effects of the following: (i) lower other income – net by Php3,043 million mainly due to impairment of investment in Hastings PDRs and lower gain on sale of properties, partly offset by the reversal of impairment of investment in Digitel Crossing, Inc., or DCI; (ii) lower net gains on derivative financial instruments by Php260 million; (iii) higher net financing costs by Php189 million; (iv) a decrease in interest income by Php12 million; (v) equity share in net earnings of associates of Php44 million in 2017 as against equity share in net losses of associates of Php40 million in 2016; and (vi) lower net foreign exchange losses by Php388 million.

Provision for Income Tax

Provision for income tax amounted to Php3,680 million in 2017, an increase of Php662 million, or 22%, from Php3,018 million in 2016. The effective tax rates for our Fixed Line business segment were 33% and 27% in 2017 and 2016, respectively.

Net Income

As a result of the foregoing, our Fixed Line business segment registered a net income of Php7,474 million in 2017, a decrease of Php660 million, or 8%, as compared with Php8,134 million in 2016.

EBITDA

Our Fixed Line business segment's EBITDA increased by Php2,528 million, or 9%, to Php29,478 million in 2017 from Php26,950 million in 2016. EBITDA margin remained stable at 39% in each of 2017 and 2016.

Core Income

Our Fixed Line business segment's core income increased by Php1,100 million, or 14%, to Php8,846 million in 2017 from Php7,746 million in 2016, primarily as a result of higher EBITDA and lower depreciation expense, partially offset by lower other income – net.

Others

Revenues

We generated revenues of Php1,279 million from our Other business segment in 2017, which include revenues from digital platforms and mobile financial services, an increase of Php432 million, or 51%, from Php847 million in 2016, primarily due to the increase in PayMaya mobile payment transactions.

Expenses

Expenses related to our other business totaled Php2,774 million in 2017, an increase of Php1,151 million, or 71%, as compared with Php1,623 million in 2016, due to higher selling, general and administrative expenses.

Other Income (Expenses) – Net

The following table summarizes the breakdown of other income (expenses) – net for other business segment for the years ended December 31, 2017 and 2016:

	2017	2016	Change	
			Amount	%
			(in millions)	
Other Income (Expenses) - net:				
Equity share in net earnings of associates and joint ventures	Php2,991	Php1,348	Php1,643	122
Interest income	655	307	348	113
Financing costs – net	(214)	(192)	(22)	(11)
Foreign exchange losses	(256)	(646)	390	60
Other income – net	7,354	1,517	5,837	385
Total	Php10,530	Php2,334	Php8,196	351

Other income increased by Php8,196 million to Php10,530 million in 2017 from Php2,334 million in 2016, primarily due to the combined effects of the following: (i) higher other income – net by Php5,837 million due to lower impairment on the Rocket Internet investment and gain on conversion of iflix convertible notes, partly offset by lower gain on sale of Beacon Electric Holdings, Inc., or Beacon, shares in 2017; (ii) higher equity share in net earnings of associates and joint ventures by Php1,643 million due to higher equity share in net earnings of Beta, resulting mainly from the gain on sale of SPi; (iii) an increase in interest income by Php348 million; (iv) lower net foreign exchange losses by Php390 million; and (v) higher financing costs by Php22 million.

Net Income

As a result of the foregoing, our other business segment registered a net income of Php8,825 million in 2017, an increase of Php7,415 million from Php1,410 million in 2016.

Core Income

Our other business segment's core income amounted to Php9,628 million in 2017, an increase of Php1,792 million, or 23%, as compared with Php7,836 million in 2016, mainly as a result of higher equity share in net earnings of associates and joint ventures, higher other income and higher interest income.

Plans

We are the leading telecommunications and digital services provider in the Philippines. We intend to reinforce our leading position while offering a broader range and higher quality of products and services.

Our current estimate for our consolidated capital expenditures in 2020 is approximately Php83 billion, of which approximately Php65 billion is expected to be spent on network maintenance and expansion and IT projects, mainly to support the growing data traffic, and approximately Php18 billion is expected to be spent for broadband installations. Our capital spending is focused on our objective to improve network quality and provide customers a superior data experience.

We plan to expand our LTE network in line with our desire to provide coverage to substantially all of the country's cities and municipalities by the end of 2020. We intend to expand and upgrade our fixed access networks for cable fortification and resiliency in various locations. The expansion of our national and domestic networks is intended to follow the roll-out of our access networks.

We also plan to continue the transformation of our service delivery platforms and IT in order to facilitate a real-time, on demand and personalized customer experience across all touch points and channels.

While the commercial use cases for 5G are still being determined, PLDT is undertaking 5G pilots with several equipment vendors, namely: Huawei, Nokia and Ericsson.

In November 2018, PLDT wireless arm Smart Communications, Inc. made the country's first successful video call on a 5G connection between the newly launched Smart 5G cities in Pampanga and Makati City. The country's first 5G-enabled video call was made using 5G Radio and Core equipment of Smart's technology partners Huawei in Makati and Ericsson in Clark, showcasing 5G interoperability in a multi-vendor environment at this early stage.

In March 2019, Smart signed a Memorandum of Understanding with Nokia, where both will collaborate in identifying innovative real world and enterprise-led 5G standalone (5G SA) solutions, such as artificial intelligence, drones, and IoT applications, for use in schools, colleges and universities. This will be done through the combined capabilities of the PLDT-Smart 5G Technolab in Makati and the Nokia Technology Center in Quezon City.

Furthermore, in anticipation of the rollout of 5G, the company's capex investments, particularly in the transport network, aim to make the PLDT network 5G-ready.

Our capital expenditure budget includes projects addressing the following objectives:

- (1) Commercial expansion of capacity and footprint of our wired and wireless services, as well as new platforms to expand service offerings;
- (2) Technical transformation of the PLDT Group's service delivery platform in order to realize operating and cost efficiencies, provision of greater resilience and redundancy for the network, and investments in additional cable systems;
- (3) Continuing investments to ensure that the PLDT network is 5G-ready; and
- (4) IT/Support Systems –upgrade of our IT and support systems.

We expect to fund incremental capital expenditures from loan financing, free cash flow and proceeds from sale of real estate assets and Rocket Internet shares.

Liquidity and Capital Resources

The following table shows our consolidated cash flows for the years ended December 31, 2019, 2018 and 2017 as well as our consolidated capitalization and other consolidated selected financial data as at December 31, 2019 and 2018:

	2019	2018	2017
	(in millions)		
Cash Flows			
Net cash flows provided by operating activities	Php69,392	Php61,116	Php56,114
Net cash flows used in investing activities	(84,316)	(25,054)	(21,060)
<i>Payment for purchase of property and equipment, including capitalized interest</i>	<i>(89,701)</i>	<i>(48,771)</i>	<i>(37,432)</i>
Net cash flows used in financing activities	(11,613)	(18,144)	(40,319)
Net increase (decrease) in cash and cash equivalents	(27,285)	18,749	(5,817)
Capitalization			
(in millions)			
Interest-bearing financial liabilities:			
Long-term financial liabilities:			
Long-term debt	Php172,834	Php155,835	Php157,654
Current portion of interest-bearing financial liabilities:			
Long-term debt maturing within one year	19,722	20,441	14,957
Total interest-bearing financial liabilities	192,556	176,276	172,611
Total equity attributable to equity holders of PLDT	111,987	112,358	106,842
	Php304,543	Php288,634	Php279,453
Other Selected Financial Data			
Total assets	Php525,027	Php482,750	Php459,444
Property and equipment	232,134	195,964	186,907
Cash and cash equivalents	24,369	51,654	32,905
Short-term investments	314	1,165	1,074

Our consolidated cash and cash equivalents and short-term investments totaled Php24,683 million as at December 31, 2019. Principal sources of consolidated cash and cash equivalents in 2019 were cash flows from operating activities amounting to Php69,392 million, proceeds from availment of long-term debt of Php37,500 million, interest received of Php1,723 million, collection of receivables from Metro Pacific Investments Corporation, or MPIC, of Php1,771 million, proceeds from disposal of Rocket Internet shares of Php1,021 million and net proceeds from maturity of short-term investments of Php843 million. These funds were used principally for: (1) purchase of property and equipment, including capitalized interest, of Php89,701 million; (2) debt principal and interest payments of Php20,494 million and Php7,143 million, respectively; (3) cash dividend payments of Php15,592 million; and (4) settlement of obligations under lease liabilities of Php5,399 million.

Our consolidated cash and cash equivalents and short-term investments totaled Php52,819 million as at December 31, 2018. Principal sources of consolidated cash and cash equivalents in 2018 were: (1) cash flows from operating activities

amounting to Php61,116 million; (2) proceeds from availment of long-term debt of Php20,500 million; (3) proceeds from disposal of Rocket Internet shares of Php11,400 million and proceeds from repurchase of Matrixx's Convertible Series B Preferred Stock of Php237 million; (4) proceeds from sale and collection of receivables from MPIC of Php6,976 million and Php4,451 million, respectively; (5) proceeds from disposal of Hastings PDRs of Php1,664 million; (6) interest received of Php1,115 million; (7) proceeds from collection of derivative financial instruments of Php886 million; and (8) proceeds from disposal of property and equipment of Php345 million. These funds were used principally for: (1) payment for purchase of property and equipment, including capitalized interest, of Php48,771 million; (2) debt principal and interest payments of Php18,740 million and Php6,614 million, respectively; (3) cash dividend payments of Php13,928 million; and (4) payment for purchase of investment in Multisys Technologies Corporation, or Multisys, of Php1,588 million and net decrease in cash resulting from deconsolidation of VIH of Php1,186 million.

Operating Activities

Our consolidated net cash flows provided by operating activities increased by Php8,276 million, or 14%, to Php69,392 million in 2019 from Php61,116 million in 2018, primarily due to higher operating income, higher level of collection of receivables, and lower level of settlement of accounts payable, partly offset by higher prepayments, higher pension contribution and higher settlement of other noncurrent liabilities.

Our consolidated net cash flows provided by operating activities increased by Php5,002 million, or 9%, to Php61,116 million in 2018 from Php56,114 million in 2017, primarily due to lower level of settlement of accounts payable and other liabilities, lower corporate taxes paid and lower prepayments, partially offset by higher advances and other noncurrent assets, lower collection of receivables and lower operating income.

Cash flows provided by operating activities of our Wireless business segment increased by Php4,954 million, or 13%, to Php44,250 million in 2019 from Php39,296 million in 2018, primarily due to higher operating income, lower level of settlement of accounts payable and higher level of collection of receivables, partly offset by higher prepayments and higher level of settlement of other noncurrent liabilities. Cash flows provided by operating activities of our Fixed Line business segment decreased by Php2,300 million, or 10%, to Php20,301 million in 2019 from Php22,601 million in 2018 primarily due to higher pension contribution, lower level of collection of receivables and higher level of settlement of accrued expenses and other current liabilities, partially offset by lower corporate taxes paid. Cash flows used in operating activities of our Other business segment increased by Php50 million, or 15%, to Php379 million in 2019 from Php329 million in 2018, primarily due to higher level of settlement of accounts payable, partly offset by lower operating loss, higher level of collection of receivables, and lower level of settlement of accrued expenses and other current liabilities.

Cash flows provided by operating activities of our Wireless business segment increased by Php7,559 million, or 24%, to Php39,296 million in 2018 from Php31,737 million in 2017, primarily due to lower receivables, lower level of settlement of accounts payable and other liabilities, lower corporate taxes paid and lower prepayments, partially offset by higher advances and other noncurrent assets and lower operating income. Cash flows provided by operating activities of our Fixed Line business segment decreased by Php2,950 million, or 12%, to Php22,601 million in 2018 from Php25,551 million in 2017, primarily due to higher advances and other noncurrent assets, higher level of settlement of accounts payable and other liabilities, and higher corporate taxes paid, partially offset by higher operating income and lower receivables. Cash flows used in operating activities of our Other business segment decreased by Php475 million, or 59%, to Php329 million in 2018 from Php804 million in 2017, mainly due to lower level of settlement of accounts payable, partly offset by lower collection of receivables and higher operating loss.

Investing Activities

Consolidated net cash flows used in investing activities amounted to Php84,316 million in 2019, an increase of Php59,262 million from Php25,054 million in 2018, primarily due to the combined effects of the following: (1) higher payment for purchase of property and equipment, including capitalized interest, by Php40,930 million; (2) lower proceeds from sale of Rocket Internet shares by Php10,379 million and proceeds from repurchase of Matrixx's Convertible Series B Preferred Shares of Php237 million in 2018; (3) proceeds from sale of MPIC receivables of Php6,976 million in 2018 and lower collection of MPIC receivables by Php2,680 million; (4) proceeds from disposal of Hastings PDRs of Php1,664 million in 2018; (5) higher interest received by Php608 million; (6) lower net payment for purchase of short-term investment by Php733 million; and (7) payment for purchase of investment in Multisys of Php1,588 million and net decrease in cash resulting from the deconsolidation of VIH of Php1,186 million in 2018.

Consolidated net cash flows used in investing activities amounted to Php25,054 million in 2018, an increase of Php3,994 million, or 19%, from Php21,060 million in 2017, primarily due to the combined effects of the following: (1) lower proceeds from disposal of investment in associates and joint ventures by Php13,174 million mainly due to proceeds from disposal of the remaining Beacon shares in 2017, partly offset by proceeds from disposal of Hastings PDRs of Php1,664 million in 2018; (2) higher payment for purchase of property and equipment, including capitalized interest, by Php11,339 million; (3) higher payment for purchase of investment, mainly investment in Multisys amounting to Php1,588 million and decrease in cash resulting from deconsolidation of VIH of Php1,186 million; (4) lower net proceeds from maturity of short-term investments by Php1,720 million; (5) proceeds from redemption of Beacon's Class B Preferred Shares of Php1,000 million in 2017; (6) dividends received of Php833 million in 2017; (7) lower payment for purchase of investments in associates and joint ventures by Php5,522 million, mainly investment in VTI; (8) higher collection of receivables from MPIC by Php2,450 million and proceeds from sale of receivables from MPIC of Php6,976 million in 2018; and (9) proceeds from sale of Rocket Internet shares of Php11,400 million and proceeds from repurchase of

Matrixx's Convertible Series B Preferred Stock of Php237 million in 2018.

Our consolidated payment for purchase of property and equipment, including capitalized interest, in 2019 totaled Php89,701 million, an increase of Php40,930 million, or 84%, as compared with Php48,771 million in 2018. Smart Group's capital spending increased by Php22,218 million, or 70%, to Php54,102 million in 2019 from Php31,884 million in 2018. Smart Group's capex spending was primarily focused on expansion of LTE (4G) coverage and capacity. PLDT's capital spending increased by Php18,707 million, or 123%, to Php33,959 million in 2019 from Php15,252 million in 2018. PLDT's capex spending was used to finance the fixed line modernization program and the continuous facility roll-out and expansion of our domestic and international fiber optic network. The balance represents other subsidiaries' capital spending.

Our consolidated payment for purchase of property and equipment, including capitalized interest, in 2018 totaled Php48,771 million, an increase of Php11,339 million as compared with Php37,432 million in 2017. Smart Group's capital spending increased by Php7,579 million, or 31%, to Php31,884 million in 2018 from Php24,305 million in 2017. Smart Group's capex spending was primarily focused on expansion of LTE (4G) coverage and capacity. PLDT's capital spending increased by Php4,118 million, or 37%, to Php15,252 million in 2018 from Php11,134 million in 2017. PLDT's capex spending was used to finance the fixed line modernization program and the continuous facility roll-out and expansion of our domestic fiber optic network, as well as expansion of our data center business. The balance represents other subsidiaries' capital spending.

As part of our growth strategy, we may from time to time, continue to make acquisitions and investments in companies or businesses.

Financing Activities

On a consolidated basis, cash flows used in financing activities amounted to Php11,613 million in 2019, a decrease of Php6,531 million, or 36%, from Php18,144 million in 2018, primarily due to the combined effects of the following: (1) higher proceeds from availment of long-term debt by Php17,000 million; (2) higher interest paid by Php529 million; (3) net settlement of derivative financial instruments of Php50 million in 2019 as against net proceeds from collection from derivative financial instruments of Php886 million in 2018; (4) higher cash dividend payments by Php1,664 million; (5) higher payments of long-term debt by Php1,754 million; and (6) settlement of obligations under lease liabilities of Php5,399 million in 2019.

On a consolidated basis, cash flows used in financing activities amounted to Php18,144 million in 2018, a decrease of Php22,175 million, or 55%, from Php40,319 million in 2017, resulting largely from the combined effects of the following: (1) lower payments of long-term debt and interest by Php20,459 million and Php462 million, respectively; (2) net settlement of capital expenditures under long-term financing of Php7,735 million in 2017; (3) lower cash dividend payments by Php2,689 million; (4) proceeds from issuance of perpetual notes of Php4,165 million in 2017; and (5) lower proceeds from availment of long-term debt by Php5,755 million.

See *Note 28 – Financial Assets and Liabilities – Financial Risk Management Objectives and Policies* to the accompanying consolidated financial statements in Item 7. “Financial Statements” for a detailed discussion on our treasury policies and objectives in terms of the manner in which treasury activities are controlled.

Debt Financing

Proceeds from availment of long-term debt for the year ended December 31, 2019 amounted to Php37,500 million, mainly from PLDT's and Smart's drawings related to the financing of capital expenditure requirements and refinancing of maturing loan obligations. Payments of principal and interest on our total debt amounted to Php20,494 million and Php7,143 million, respectively, for the year ended December 31, 2019.

Proceeds from availment of long-term debt for the year ended December 31, 2018 amounted to Php20,500 million, mainly from PLDT's and Smart's drawings related to the financing of capital expenditure requirements and refinancing of maturing loan obligations. Payments of principal and interest on our total debt amounted to Php18,740 million and Php6,614 million, respectively, for the year ended December 31, 2018.

Our consolidated long-term debt increased by Php16,280 million, or 9%, to Php192,556 million as at December 31, 2019 from Php176,276 million as at December 31, 2018, primarily due to drawings from our long-term facilities, partly offset by debt amortizations and prepayments. As at December 31, 2019, the long-term debt level of Smart increased by 18% to Php78,152 million from Php65,996 as at December 31, 2018, and PLDT's long-term debt level increased by 4% to Php114,404 million from Php110,280 million as at December 31, 2018.

Our consolidated long-term debt increased by Php3,665 million, or 2%, to Php176,276 million as at December 31, 2018 from Php172,611 million as at December 31, 2017, primarily due to drawings from our long-term facilities and the depreciation of the Philippine peso relative to the U.S. dollar, partly offset by debt amortizations. As at December 31, 2018, the long-term debt level of Smart increased by 6% to Php65,996 million from Php62,388 as at December 31, 2017, and PLDT's long-term debt level increased to Php110,280 million from Php110,223 million as at December 31, 2017.

See *Note 21 – Interest-bearing Financial Liabilities – Long-term Debt* to the accompanying audited consolidated financial statements in Item 7. “Financial Statements” for a more detailed discussion of our long-term debt.

Debt Covenants

Our consolidated debt instruments contain restrictive covenants, including covenants that require us to comply with specified financial ratios and other financial tests, calculated in conformity with PFRS, at relevant measurement dates, principally at the end of each quarterly period. We have complied with all of our maintenance financial ratios as required under our loan covenants and other debt instruments.

As at December 31, 2019 and 2018, we are in compliance with all of our debt covenants.

See *Note 21 – Interest-Bearing Financial Liabilities – Compliance with Debt Covenants* to the accompanying audited consolidated financial statements in Item 7. “Financial Statements” for a more detailed discussion of our debt covenants.

Financing Requirements

We believe that our available cash, including cash flow from operating activities, will provide sufficient liquidity to fund our projected operating, investment, capital expenditures and debt service requirements for the next 12 months; however, we may finance a portion of these costs from external sources if we consider it prudent to do so.

The following table shows the dividends declared to common and preferred shareholders for the years ended December 31, 2019 and 2018:

Class	Date			Amount	
	Approved ⁽¹⁾	Record	Payable	Per Share	Total Declared
(in millions, except per share amount)					
2019					
Common					
Regular Dividend	March 21, 2019	April 4, 2019	April 23, 2019	36	7,778
	August 8, 2019	August 27, 2019	September 10, 2019	36	7,778
Preferred					
Series IV Cumulative Non-convertible Redeemable Preferred Stock ⁽¹⁾	January 29, 2019	February 22, 2019	March 15, 2019	—	12
	May 9, 2019	May 24, 2019	June 15, 2019	—	12
	August 8, 2019	August 27, 2019	September 15, 2019	—	13
	November 7, 2019	November 22, 2019	December 15, 2019	—	12
Voting Preferred Stock	March 7, 2019	March 27, 2019	April 15, 2019	—	3
	June 11, 2019	June 28, 2019	July 15, 2019	—	2
	September 24, 2019	October 8, 2019	October 15, 2019	—	2
	December 3, 2019	December 18, 2019	January 15, 2020	—	3
Charged to Retained Earnings					15,615
2018					
Common Stock					
Regular Dividend	March 27, 2018	April 13, 2018	April 27, 2018	28	6,050
	August 9, 2018	August 28, 2018	September 11, 2018	36	7,778
Preferred					
Series IV Cumulative Non-convertible Redeemable Preferred Stock ⁽¹⁾	January 22, 2018	February 21, 2018	March 15, 2018	—	12
	May 10, 2018	May 25, 2018	June 15, 2018	—	12
	August 9, 2018	August 28, 2018	September 15, 2018	—	13
	November 8, 2018	November 23, 2018	October 15, 2018	—	12
Voting Preferred Stock	March 8, 2018	March 28, 2018	April 15, 2018	—	3
	June 13, 2018	June 29, 2018	July 15, 2018	—	2
	September 25, 2018	October 9, 2018	October 15, 2018	—	2
	December 4, 2018	December 19, 2018	January 15, 2019	—	3
Charged to Retained Earnings					13,887

⁽¹⁾ Dividends were declared based on total amount paid up.

Our dividends declared after December 31, 2019 are detailed as follows:

Class	Date			Amount	
	Approved	Record	Payable	Per Share	Total
(in million pesos, except per share amounts)					
Cumulative Non-Convertible Redeemable Preferred Stock					
Series IV*	January 28, 2020	February 24, 2020	March 15, 2020	—	12
Voting Preferred Stock	March 5, 2020	March 25, 2020	April 15, 2020	—	3
Common Stock					
Regular Dividend	March 5, 2020	March 19, 2020	April 3, 2020	39	8,426
Charged to retained earnings					8,441

* Dividends were declared based on total amount paid up.

See Item 5. “Market for Registrant’s Common Equity and Related Stockholder Matters – Dividends” and *Note 20 – Equity* to the accompanying audited consolidated financial statements in Item 7. “Financial Statements” for a detailed discussion of our dividend payments.

Credit Ratings

None of our existing indebtedness contains provisions under which credit rating downgrades would trigger a default, changes in applicable interest rates or other similar terms and conditions.

PLDT's current credit ratings are as follows:

Rating Agency	Credit Rating	Outlook	
Standard & Poor's Rating Services, or S&P	Long-term Issuer Credit Senior Unsecured Notes Programs	BBB+ BBB+	Stable
Moody's Investor Service, or Moody's	Local Currency Issuer Rating	Baa2	Stable
Fitch Ratings, or Fitch	Long-term Foreign Currency Issuer Default Rating Long-term Local Currency Issuer Default Rating National Long-term Rating	BBB BBB AAA(ph1)	Stable Stable Stable
CRISP	Issuer rating	AAA	Stable

On May 29, 2019, Moody's affirmed PLDT's long term local currency issuer rating at "Baa2". Rating is considered "investment grade." The outlook is stable.

On May 29, 2019, Fitch affirmed PLDT's long-term foreign currency issuer default rating and long-term local currency issuer default rating at "BBB", with a stable outlook. Fitch also affirmed its National Rating at "AAA (ph1)".

On July 12, 2019, S&P affirmed our long-term foreign issuer credit rating at "BBB+", with a stable outlook, and also, on our senior unsecured notes programs at "BBB+". These ratings are considered as "investment grade."

On January 6, 2014, CRISP rated PLDT's inaugural peso retail bonds as "AAA" issuer rating with a "stable" outlook, the highest on the scale. CRISP cited PLDT's market leadership, strong historical financial performance and excellent management and governance as key considerations for providing their rating. As at March 31, 2020, there has been no change in the credit rating issued by CRISP.

Changes in Financial Conditions

Our total assets amounted to Php525,027 million as at December 31, 2019, an increase of Php42,277 million, or 9%, from Php482,750 million as at December 31, 2018, primarily due to higher property and equipment, prepayments and right-of-use of assets resulting from the impact of PFRS 16 adoption, partly offset by lower cash and cash equivalents.

Our total assets amounted to Php482,750 million as at December 31, 2018, an increase of Php23,306 million, or 5%, from Php459,444 million as at December 31, 2017, primarily due to higher cash and cash equivalents, property and equipment, and investment in associates and joint ventures, mainly due to investment in VIH and Multisys, partially offset by lower financial assets at fair value through profit and loss, mainly due to sale of Rocket Internet shares, and lower financial assets at fair value through other comprehensive income, mainly on account of sale of MPIC receivables. Starting 2018, available-for-sale financial investments are presented as financial assets at fair value through profit or loss according to PFRS 9.

Our total liabilities amounted to Php408,737 million as at December 31, 2019, an increase of Php42,653 million, or 12%, from Php366,084 million as at December 31, 2018, primarily due to higher interest-bearing financial liabilities, lease liabilities on account of the impact of PFRS 16 adoption, and higher accounts payable and accrued expenses and other liabilities.

Our total liabilities amounted to Php366,084 million as at December 31, 2018, an increase of Php17,823 million, or 5%, from Php348,261 million as at December 31, 2017 significantly due to higher accounts payable, and accrued expenses and other liabilities, combined with higher interest-bearing financial liabilities.

Off-Balance Sheet Arrangements

There are no off-balance sheet arrangements that have or are reasonably likely to have any current or future effect on our financial position, results of operations, cash flows, changes in stockholders' equity, liquidity, capital expenditures or capital resources that are material to investors.

Equity Financing

On August 5, 2014, the PLDT Board of Directors approved the amendment of our dividend policy, increasing the dividend payout rate to 75% from 70% of our core earnings per share as regular dividends. In 2016, in view of our elevated capital expenditures to support the build-out of a resilient and reliable data network, lower EBITDA primarily due to higher subsidies to grow the data business and defend market share and the resources required to support the acquisition of SMC's telecommunications business, we have lowered our regular dividend payout to 60% of our core income. In declaring dividends, we take into consideration the interest of our shareholders, as well as our working capital, capital expenditures and debt servicing requirements. The retention of earnings may be necessary to meet the funding requirements of our business expansion and development programs. However, in the event that no investment

opportunities arise, we may consider the option of returning additional cash to our shareholders in the form of special dividends of up to the balance of our core earnings or to undertake share buybacks. We were able to pay out approximately 100% of our core earnings for seven consecutive years from 2007 to 2013, approximately 90% of our core earnings for 2014, 75% of our core earnings for 2015 and 60% of our core earnings in 2016, 2017 and 2018, and 60% of our telco core earnings for 2019. The accumulated equity in the net earnings of our subsidiaries, which form part of our retained earnings, are not available for distribution unless realized in the form of dividends from such subsidiaries. Dividends are generally paid in Philippine pesos. In the case of shareholders residing outside the Philippines, PLDT's transfer agent in Manila, Philippines, as the dividend-disbursing agent, converts the Philippine peso dividends into U.S. dollars at the prevailing exchange rates and remits the dollar dividends abroad, net of any applicable withholding tax.

Our subsidiaries pay dividends subject to the requirements of applicable laws and regulations and availability of unrestricted retained earnings, without any restriction imposed by the terms of contractual agreements. Notwithstanding the foregoing, the subsidiaries of PLDT may, at any time, declare and pay such dividends depending upon the results of operations and future projects and plans, the respective subsidiary's earnings, cash flow, financial condition, capital investment requirements and other factors.

Consolidated cash dividend payments paid to shareholders amounted to Php15,592, Php13,928, and Php16,617 million as at December 31, 2019, 2018 and 2017, respectively.

Contractual Obligations and Commercial Commitments

Contractual Obligations

For a detailed discussion of our consolidated contractual undiscounted obligations as at December 31, 2019 and 2018, see *Note 28 – Financial Assets and Liabilities* to the accompanying audited consolidated financial statements in Item 7. "Financial Statements".

Commercial Commitments

Our outstanding consolidated commercial commitments, in the form of letters of credit, amounted to nil and Php20 million as at December 31, 2019 and 2018, respectively. These commitments will expire within one year.

Quantitative and Qualitative Disclosures about Market Risks

The main risks arising from our financial instruments are liquidity risk, foreign currency exchange risk, interest rate risk and credit risk. The importance of managing those risks has significantly increased in light of the considerable change and volatility in both the Philippine and international financial markets. Our Board of Directors reviews and approves policies for managing each of these risks. We also monitor the market price risk arising from all financial instruments.

See *Note 28 – Financial Assets and Liabilities – Financial Risk Management Objectives and Policies* to the accompanying consolidated financial statements in Item 7. "Financial Statements" for a detailed discussion.

Impact of Inflation and Changing Prices

Inflation can be a significant factor in the Philippine economy, and we are continually seeking ways to minimize its impact. The average inflation rate in the Philippines for the years ended December 31, 2019 and 2018 were 2.5% and 5.2%, respectively. We expect inflation to stay within the 2% to 4% target range of the BSP.

Risks and Uncertainties

You should carefully consider all of the information in this annual report, including the risks and uncertainties described below. If any of the following risks actually occurs, it could have a material adverse effect on our business, financial condition or results of operations and the trading price of our ADSs could decline and you could lose all or part of your investment.

Risks Relating to Us

If we are not able to adapt to changes and disruptions in technology and by over-the-top, or OTT, services and address changing consumer demand on a timely basis, we may experience a decline in the demand for our services, be unable to implement our business strategy and experience a material adverse effect on our business, results of operations, financial condition and prospects.

The rapid change of technology as well as the proliferation of OTT services (such as *Facebook, Skype, Viber, WhatsApp* and other similar services) and video conferencing applications (such as *Zoom* and other similar services), and the ensuing change in customer behavior, have disrupted our traditional businesses. As a result, our traditional revenue sources, such as short messaging service, or SMS, voice and international calling services, have declined, and we expect this trend to continue with the rise in data revenue.

The growing use of mobile data in the Philippines, coupled with the prevalence of OTT services and video conferencing applications, have negatively impacted our domestic calling service in recent years. OTT services continue to increasingly compete with us in voice and data services and continue to affect our business model. We are also facing growing competition from providers offering services using alternative wireless technologies and IP-based networks,

including efforts by the Philippine government to roll-out its free *WiFi* services to selected areas within various municipalities in the country. Moreover, net settlement payments between PLDT and other foreign telecommunications carriers for origination and termination of international call traffic between the Philippines and other countries, which have been our predominant source of foreign currency revenues, have been declining in recent years and have diminished in its contribution to total service revenues.

While the trend of increasing mobile data usage has resulted in, and is expected to continue to have, a positive impact on our data revenues, there is no guarantee that such increase will alleviate the decline in the revenue from our traditional businesses in full. We may not be able to maintain and attract customers more effectively than our competitors. We will also need to invest in new infrastructure, systems and personnel to provide high quality services for increasing mobile data usage. As a result, our capital costs could increase as we phase out outdated and unprofitable technologies and invest in new ones. We may not be able to accurately predict technological trends or the success of new services in the market. In addition, there could be legal or regulatory restraints on our introduction of new services. If our services fail to gain acceptance in the marketplace, or if costs associated with implementation and completion of the introduction of these services materially increase, our ability to retain and attract customers could be adversely affected. We can neither assure you that we would be able to adopt or successfully implement new technologies and services nor assure you that future technological changes will not adversely affect our business, results of operations, financial condition and prospects.

Our failure to keep pace with technological changes and evolving industry standards relating to the emergence of the 5G technology could harm our competitive position or negatively impact our results of operations.

Fifth-generation wireless, or 5G, is the latest iteration of cellular technology, engineered to greatly increase the speed and responsiveness of wireless networks. 5G is characterized by significantly higher speeds and low latency which will enable mobile users to download data at a much faster speed than the technology of previous generations. 5G is also expected to anchor the IoT, which will allow users to be connected not only to each other but to their homes, vehicles, public infrastructure, and more.

In order to introduce and implement the 5G technology to our customers, we may need to obtain additional licenses or upgrade our networks. If we are unable to acquire such licenses or upgrade such systems, on reasonable terms or at all, we may not be able to implement the 5G technology in a timely manner or at all, which in turn may negatively impact our ability to draw new customers and/or maintain our existing customer base.

Further, we may need to incur significant capital expenditures to acquire licenses or install infrastructure to enable the 5G technology. As new technologies relating to 5G systems are developed, our equipment and infrastructure may need to be replaced or upgraded or we may need to rebuild our network, in whole or in part.

We are currently deploying 5G pilot programs in anticipation of commercial rollouts in the near future. However, we are dependent on the availability of 5G-capable devices such as handsets and modems before we can roll out commercial services and generate revenues. A delay in the release of reasonably-priced 5G handsets could negatively impact the mass acceptance of 5G services among our customers and our ability to monetize these investments, which in turn could adversely affect our growth prospects.

The anticipated entry of a third major telecommunications player and/or increased competition from other telecommunications services providers may reduce our market share and decrease our profit margin, and we cannot assure you that any potential change in the competitive and regulatory landscape of the telecommunications industry in the Philippines would not have a material adverse effect on our business, results of operations, financial condition and prospects.

Increasing competition among existing telecommunications services providers, as well as competition from new competitors, could materially and adversely affect our business and prospects by, among other factors, forcing us to lower our tariffs, reducing or reversing the growth of our customer base and reducing usage of our services. Competition in the mobile telecommunications industry is particularly intense, with network coverage, quality of service, product offerings, and price dictating subscriber preference, while competition in the fixed line side is relatively more active as well. Vital capacity and coverage expansion may continue to increase our capital expenditures. Recently, the industry went through a period where both mobile operators have grown more aggressive in maintaining and growing market share, especially in light of a maturing market. Our principal mobile competitor, Globe, has introduced aggressive marketing campaigns and promotions. It has also begun to compete more actively in the fixed line segment, especially with their introduction of a fixed wireless home broadband service which competes directly with our home broadband business.

In 2017, the Philippine government announced its intentions to encourage competition within the telecommunications industry through the introduction of a third major player. As part of this push, the government is proposing and has introduced certain measures that would facilitate and enable the operations of a new player. Some of these are: tower sharing policy, mobile number portability, removal of the mobile interconnect charges, and the lifting of foreign ownership restrictions for telecommunication companies.

In 2018, the Philippine government, through the DICT, declared as the third telecom player a consortium consisting of Udena Corporation, Chelsea Logistics Corporation and China Telecom, or the NMP (New Mobile Player) Consortium. The NMP Consortium indicated that they had reached an agreement with Mislattel Company, or Mislattel, for the use of Mislattel's telecommunications franchise. In February 2019, the Senate Committee on Public Services approved the transfer of the controlling interest in Mislattel to the NMP Consortium under certain conditions. On July 8, 2019,

Mislatel was renamed as “Dito Telecommunity Corporation”, or Dito. On the same date, Dito was granted its permit to operate after President Rodrigo Duterte awarded the CPCN by the NTC to its chairman Dennis Uy during a ceremony at the Presidential Palace, Malacañang. In October 2019, Dito entered into with Sky Cable Corporation, or Sky Cable, and LCS Group. Under the agreement with LCS Group, Dito will lease the telecommunications towers that LCS has built across different regions in the Philippines. With Sky Cable, Dito will utilize its unused fiber-optic cables in Metropolitan Manila. Dito is expected to begin its commercial operations by March 2021 with a plan to enable customers to use its telecommunications services by May 2020. Dito plans to set up 1,600 cell towers that will provide 37% coverage of the country, and plans to commence its internet service by July 18, 2020, with pre-commercial trial to be undertaken by September 2020. Dito plans to offer initially 4G LTE before moving to 5G technology in 2021.

A third major player will likely adversely threaten our market share. Furthermore, we believe that the third player, when it enters the market, may put forth aggressive offers to lure customers away from us and Globe. To maintain our competitive posture, we may need to match those offers and offer other incentives to prevent existing customers from switching. Furthermore, we may need to make additional investments in our network to further improve the customer experience in order to effectively compete with the third telecom player and Globe. A loss of market share and increased costs to maintain our competitive posture will adversely affect our business, financial condition and results of operations.

In addition to the entry of a third major player, we cannot assure you that the number of providers of telecommunications services will not increase in the future or that competition for customers will not cause our mobile and fixed line subscribers to switch to other operators, or otherwise cause us to increase our marketing and capital expenditures, lose customers or reduce our rates, resulting in a reduction in our profitability.

In the future, we may lose customers due to development in law, regulations and/or government initiatives. In 2019, Smart, Globe and Dito established a joint venture company, TCI, to enable number porting services in line with the new MNP initiative of the government. TCI’s function is to enable a customer to retain his mobile number when he moves from one mobile service provider to another, or changes the type of subscription from postpaid to prepaid or vice versa. See Item 1. “Description of Business – Recent Developments – Smart, Globe and Dito Joint Venture on Mobile Number Portability” and Item 1. “Description of Business – Licenses and Regulations – Regulatory Tariffs. The ability to retain his mobile number when switching to another telecommunications services provider may be an incentivizing factor for a customer to make a switch away from us. The loss of customers due to such development would adversely affect our business, financial condition and results of operations. Meanwhile, with customers who switch away from us retaining their mobile numbers, the mobile number prefixes which used to be exclusive to our subscribers will no longer be so. As such, we will lose exclusivity to our mobile number prefixes, and such loss may result in the dilution of any premium nature of our brand. We cannot guarantee you that in the future, there will not be similar changes in law, regulations and/or government initiatives that may incentivize customers to switch away from us.

Our ability to compete effectively will depend on, among other things, network coverage, quality of service, price, our development of new and enhanced products and services, the reach and quality of our sales and distribution channels and our capital resources. It will also depend on how successfully we anticipate and respond to various factors affecting our industry, including new technologies and business models, changes in consumer preferences and demand for existing services, demographic trends and economic conditions. If we are not able to respond successfully to these competitive challenges, this could have a material adverse effect on our business, results of operations, financial condition and prospects.

The success of our business depends on our ability to maintain and enhance our brands.

We believe that our reputation and brands in the industry are crucial to the success of our business. To maintain and enhance our reputation and brands, we need to successfully provide the best customer experience such that we not only maintain our current customer base but attract new subscribers as well. If we are not successful in maintaining and improving our brands, our business, financial position, and/or results of operations may be negatively affected.

Our reliance on outsourcing and strategic sourcing arrangements, technology vendor contracts, and other partnerships and/or joint ventures may prevent us from meeting organizational targets or impact our brand image.

We have entered into a number of outsourcing agreements with technology vendors covering key operations in order to improve efficiencies and maximize knowledge transfer. These arrangements may disrupt existing operations and result in resistance among employees. Furthermore, any delays in implementation or failure to bring about the desired results will hamper our ability to meet our medium-term targets.

In particular, as part of our extensive capital expenditures program to overhaul our fixed and wireless networks infrastructure and our IT systems, we have entered into agreements with Amdocs Philippines, Inc., or Amdocs, and Huawei Technologies Co. Ltd., or Huawei, to upgrade and modernize a significant portion of our IT infrastructure. We cannot guarantee that we will be able to accomplish this transformation in a timely fashion, or at all, or in the manner intended. Furthermore, we cannot guarantee that such transformation will not result in service disruptions, network outages or encounter other issues that may detrimentally affect consumer experience. This may adversely affect our business, financial condition and results of operations. We continue to monitor developments on Huawei’s cooperation with other telecommunications service providers worldwide. For example, we note that some countries and telecommunications service providers have banned or limited the use of Huawei’s technologies for different reasons. We have factored in such developments in our decision-making with respect to our operation with Huawei, and plan to continue to do so.

Our business relies heavily as well on third party vendors, some of whom may encounter financial difficulties or consolidate with other vendors. This may result in shrinking the already limited pool of qualified vendors which in turn may materially impact their ability to fulfill their obligations and thereby impact our operations. The limited number of vendors may also result on our dependence on a single vendor to provide critical services.

Our ability to earn revenues could be disrupted if our supplier(s) is no longer able or willing to provide us with our product or cannot provide us with our products due to extenuating territorial circumstances. In the event that either of our potential suppliers cannot or will not provide us with our products, we may be forced to find alternative supplies. We cannot guarantee that we will be able to obtain our products or products of similar quality from alternate suppliers, in part or at all. Failure to obtain alternative sources will disrupt our operations and hinder our ability to generate revenues.

The mobile telecommunications industry in the Philippines may not continue to grow.

The majority of our total revenues are currently derived from the provision of mobile services to customers in the Philippines. As a result, we depend on the continued development and growth of this industry in the Philippines. The mobile penetration rate in the country, however, has already reached approximately 159% as at December 31, 2019, and thus the industry may well be considered mature insofar as services such as SMS and domestic voice are concerned.

Data is emerging as the key driver for revenues. However, further growth of the market depends on many factors beyond our control, including the continued introduction of new and enhanced mobile devices, the price levels of mobile handsets, consumer tastes and preferences, and the amount of disposable income of existing and potential subscribers. Any economic, technological or other developments resulting in a reduction in demand for mobile services or otherwise causing the Philippine mobile telecommunications industry to stop growing or reducing the rate of its growth, could materially harm our business, results of operations, financial condition and prospects.

The licenses, franchises and regulatory approvals, upon which PLDT relies, may be subject to revocation or delay, which could result in the suspension of our services or abandonment of any planned expansions and could thereby have a material adverse effect on our business, results of operations, financial condition and prospects.

Failure to comply with the foreign ownership restrictions

Section 11, Article XII of the 1987 Philippine Constitution provides that no franchise, certificate, or any other form of authorization for the operation of a public utility shall be granted except to citizens of the Philippines or to corporations of associations organized under the laws of the Philippines, at least 60% of whose capital is owned by such citizens. Exceeding the foreign ownership restrictions imposed under the Philippine Constitution may subject the Company to (1) sanctions set out in Section 14 of the Philippine Foreign Investments Act of 1991, as amended, comprising a fine not exceeding (a) the lower of (x) 0.5% of the total paid in capital of the Company and (y) Php5 million, in the case of a corporate entity, (b) Php200,000, in the case of the president of the Company or other responsible officers, and (c) Php100,000, in the case of other natural persons, which we refer to collectively as the Monetary Sanctions, and/or (2) the Philippine government commencing a *quo warranto* case in the name of the Republic of the Philippines against the Company to revoke the Company's franchise that permits the Company to engage in telecommunications activities.

We believe that as of the date of this report, PLDT is in compliance with the requirements of the Constitution, and this position was supported by the Supreme Court; however, we cannot assure you that subsequent changes in law or additional litigation would not result in a different conclusion. See Item 3. "Legal Proceedings" and *Note 27 – Provisions and Contingencies – In the Matter of the Wilson Gamboa Case and Jose M. Roy III Petition* to the accompanying audited consolidated financial statements in Item 7. "Financial Statements" for further discussion.

On March 10, 2020, the House of Representative approved the House Bill No. 78, which gives a distinction between how a public service and a public utility is defined under Commonwealth Act No. 146 or the Public Service Act. If approved into law, the bill will allow foreigners to fully own public utilities in the Philippines.

Failure to renew CPCNs

We operate our business under franchises, each of which is subject to amendment, termination or repeal by the Philippine Congress, and to various provisional authorities and CPCNs, which have been granted by the NTC and will expire between now and 2028. Some of our CPCNs and provisional authorities have already expired. Although we have filed applications for extension of these CPCNs and provisional authorities, we cannot assure you that the NTC will grant the applications for renewal. Failure to renew CPCNs can materially and adversely affect our ability to conduct the essential functions of our business, and therefore adversely affect our financial condition and results of operations. See Item 1. "Description of Business – Licenses and Regulations" for more information.

Failure to comply with R.A. 7925

The Philippine Congress may revoke, or the Solicitor General of the Philippines may file a case against Smart and DMPI to revoke, the franchise of Smart and DMPI for their failure to comply with R.A. 7925, which requires making a public offering of at least 30% of the aggregate common shares of a telecommunications entity with regulated types of services. See Item 1. "Description of Business – Material Effects of Regulation on our Business" for further discussion.

On May 19, 2017, Republic Act No. 10926 took effect which extended the Legislative Franchise of Smart. The law contains a provision which exempts Smart from the requirement of listing of shares if a grantee is wholly owned by a publicly listed company with at least thirty *per centum* (30%) of whose authorized capital stock is publicly listed. Thus, Smart is in compliance with RA 7925.

We cannot assure you that any of our franchise, permits or licenses will not be revoked and any such revocation could have a material adverse effect on our business, financial conditions or prospects.

Our business is significantly affected by laws and regulations, including regulations in respect of rates and taxes and laws relating to anti-competitive practices and monopoly.

The NTC regulates the rates we are permitted to charge for services that have not yet been deregulated, such as local exchange services. We cannot assure you that the NTC will not impose additional obligations on us that could lead to the revocation of our licenses if not adhered to and/or to the reduction in our total revenues or profitability. The NTC could adopt changes to the regulations or implement additional guidelines governing our interconnection with other telecommunications companies or the rates and terms upon which we provide services to our customers. The occurrence of any of these changes could materially reduce our revenues and profitability.

The PLDT Group is also subject to a number of national and local taxes. We cannot assure you that the PLDT Group will not be subject to new, increased and/or additional taxes and that the PLDT Group would be able to impose or pass on additional charges or fees on its customers to compensate for the imposition of such taxes or charges, or for the loss of fees and/or charges.

Moreover, we are subject to laws and regulations relating to anti-competitive practices and anti-monopoly. The Philippine Competition Act came into effect on August 8, 2015 and prohibits practices that restrict market competition through anti-competitive agreements and abuse of a dominant position. It also requires parties to provide notification and obtain clearance for certain mergers and acquisitions. The Philippine Competition Act prescribes administrative and criminal penalties for violations of these prohibitions. While our business practices have not in the past been found to have violated any laws and regulations related to anti-competition and anti-monopoly, we cannot assure you that any new or existing governmental regulators will not, in the future, take the position that our business practices to have an anti-competitive effect on the Philippine telecommunications industry, nor can we assure you that such regulators will not take that position that we have violated the relevant laws and regulations relating to anti-competition and anti-monopoly in the future.

In particular, PLDT was engaged in litigation with the Philippine Competition Commission, or the PCC, relating to PLDT's investments in Vega Telecom Inc., or VTI, Bow Arken Holdings Company, or Bow Arken, and Brightshare Holdings, Inc., or Brightshare, or the SMC Transactions. Although the Court of Appeals, or CA, among other things, compelled the PCC to recognize that the SMC Transactions as deemed approved by operation of law, the CA did clarify that the deemed approved status of the SMC Transactions does not, however, remove the power of PCC to conduct post-acquisition review to ensure that no anti-competitive conduct is committed by the parties. Any future expansion in our services, particularly in our mobile services, could subject us to additional conditions in the granting of our provisional authorities by the NTC and to increased regulatory scrutiny, which could harm our reputation and business, and which could have a material adverse effect on our growth and prospects. In addition, the occurrence of any such event could impose substantial costs or cause interruptions or considerable delays in the provision, development or expansion of our services. See *Note 11 – Investments in Associates and Joint Ventures – Notice of Transaction filed with the Philippine Competition Commission, or PCC* to the accompanying audited consolidated financial statements in Item 7. "Financial Statements" for further discussion.

Changes in regulations or user concerns regarding privacy and protection of user data, or any failure to comply with such laws, could adversely affect our business.

Legislation such as R.A. 10173 (Data Privacy Act of 2012) and its Implementing Rules and Regulations ("Data Privacy Act") aim to protect individual privacy. The rules apply to the processing of personal data in the public and private sectors, as well as to acts done or practices engaged in and outside of the Philippines under certain conditions. From 2018, the National Privacy Commission, or NPC, has gradually shifted its focus from campaigning for Data Privacy Act awareness to compliance checks on entities engaged in personal data processing. Personal data breaches and other controversies relating to the unauthorized processing of personal data both within the Philippines and abroad have also increased public scrutiny on the activities of entities engaged in personal data processing. Provisions in Data Privacy Act on the Rights of Data Subjects¹ and the NTC issuances under MC 05-07-2016 and NTC MC No. 05-06-2007 on the rights of the subscriber on record to their data and Call Data Records highlight PLDT's statutory obligation to be able to furnish complete and correct data to its users upon their request. These developments lead to increased impetus on PLDT not only to ensure compliance with Data Privacy Act and similar laws, rules and regulations but also to meet industry best practices and customer expectations on data protection.

¹ *The Rights of Data Subjects under the Data Privacy Act are as follows: right to be informed whether their personal data is being processed; right to object to the processing of their personal data; right to reasonable access to their personal data; right to rectification of inaccuracy or error; right to erasure or blocking of their personal data; the right to data portability; right to file a complaint; and right to damages due to inaccurate, incomplete, outdated, false, unlawfully obtained or unauthorized use of personal data.*

Any failure, or perceived failure, by us to make effective modifications to our policies, or to comply with any privacy, data-retention or data-protection-related laws, regulations, orders or industry self-regulatory principles, including Data Privacy Act, could result in proceedings or actions against us by governmental entities or others, a loss of user confidence, damage to the PLDT brands, and a loss of users or advertising partners, any of which could potentially have an adverse effect on our business.

In addition, various federal, state and foreign legislative or regulatory bodies may enact new or additional laws and regulations concerning privacy, data-retention and data-protection issues, including laws or regulations mandating disclosure to domestic or international law enforcement bodies, which could adversely impact our results of operations, businesses, brand or reputation with users. For instance, in May 2018, the General Data Protection Regulation (GDPR) came into force in the European Union and European Economic Area countries. In the United States, there is also increasing clamor for the enactment of a federal privacy law. In the Philippines, proposed amendments to the Data Privacy Act have been filed with the Congress of the Philippines. In general, the amendments focus on a review of the penalties for criminal offenses, as well as the authority of the NPC to levy fines for administrative offences. Since stakeholders, including telecommunications service providers, have significant interest in these amendments, it is likely that the amendments will only be approved by Congress after a lengthy period of solicitation of public opinion and discussion.

The interpretation and application of privacy, data protection and data retention laws and regulations are often uncertain as these are highly dependent on the local context and culture and they can also be impacted by changes in technology. These laws may be interpreted and applied inconsistently from country to country and inconsistently with our current policies and practices, complicating long-range business planning decisions. If privacy, data protection or data retention laws are interpreted and applied in a manner that is inconsistent with our current policies and practices we may be fined or ordered to change our business practices in a manner that adversely impacts our operating results. Complying with these varying international requirements could cause us to incur substantial costs or require us to change our business practices or operating platforms in a manner adverse to our business.

In 2019, the PLDT Group had ten personal data breaches that met the Data Privacy Act's requisites for mandatory reporting to the NPC and notice to affected data subjects. These incidents reported range from the physical, such as unauthorized access to a customer's call data records and inadvertent disclosure of customer information by a negligent employee, to the technical, such as glitches in the website and mobile applications access IDs that enabled certain customers to view information of other customers. The PLDT Group has complied with the post-breach notification requirements of the NPC. No cases have been filed and no regulatory penalties have been issued to date in relation to said incidents.

Inadequate handling of confidential information, including personal customer information by our corporate group, contractors and others, may adversely affect our credibility or corporate image.

We possess a substantial amount of personal information of our customers. In the event an information leak occurs, whether at our end or on the part of our contractors and service providers, we might be subjected to penalties under the data privacy law, our credibility and corporate image may be significantly damaged, and we may experience an increase in cancellations of customer contracts and slower increase in additional subscriptions, any of which could have a material adverse effect on our business, results of operations, financial condition and prospects.

Legislation and regulation of online payment systems could create unexpected costs, subject us to enforcement actions for compliance failures, or cause us to change our digital technology platforms or business models.

Regulators have been increasing their focus on online and mobile payment services, and recent regulatory and other developments could reduce the convenience or utility of our payment services for users. Governmental regulation of certain aspects of mobile payments systems under which PLDT operates could result in obligations or restrictions with respect to the types of products that we may offer to consumers, the payment card systems that link to our mobile payments systems, the jurisdictions in which our payment services or apps may be used, and higher costs, such as fees charged by banks to process funds through our mobile payments systems. Such obligations and restrictions could be further increased as more jurisdictions regulate payment systems. Moreover, if this regulation is used to provide resources or preferential treatment or protection to selected payments and processing providers, it could displace us from, or prevent us from entering into, or substantially restrict us from participating in, particular geographies.

Limitations in the amount of frequency spectrum or facilities made available to us could negatively affect our ability to maintain and improve our service quality and level of customer satisfaction, could increase our costs and could reduce our competitiveness.

The available radio frequency spectrum is one of the principal limitations on a wireless network's capacity, and there are limitations in the spectrum and facilities available to us to provide our services. Our future wireless growth will increasingly depend on our ability to offer innovative video products and data services and a wireless network that has sufficient spectrum and capacity to support these innovations. Improvements in our service depend on many factors, including continued access to and deployment of adequate spectrum.

Our competitiveness may decline if we cannot obtain the necessary or optimal allocation of spectrum from the Philippine government. If the Philippine government does not fairly allocate spectrum to wireless providers in general, revoke spectrum previously granted to us, or if we cannot acquire needed spectrum or deploy the services customers desire on a timely basis without burdensome conditions or at adequate cost while maintaining network quality levels, then our ability to attract and retain customers, and therefore maintain and improve our operating margins, could be materially adversely affected.

Other mobile service providers in the world may not adopt or use the technologies and the frequency bands that are compatible with ours, which could affect our ability to sufficiently offer international services.

If a sufficient number of mobile service providers do not adopt the technologies and the frequency bands that are compatible with ours, if mobile service providers switch to other technologies or frequency bands, or if there is a delay in the introduction and expansion of compatible technologies and frequency bands, we may not be able to offer international roaming or other international services as expected, which may adversely affect our business.

We may not be successful in our acquisitions of, and investments in, other companies and businesses, and may therefore be unable to fully implement our business strategy.

As growth slows or reverses in our traditional fixed line and mobile businesses, and as part of our strategy to grow other business segments, we make acquisitions and investments in companies or businesses to enter new businesses or defend our existing markets. The success of our acquisitions and investments depends on a number of factors, such as:

- our ability to identify suitable opportunities for investment or acquisition;
- our ability to reach an acquisition or investment agreement on terms that are satisfactory to us or at all;
- the extent to which we are able to influence or exercise control over the acquired company;
- the compatibility of the economic, business or other strategic objectives and goals of the acquired company with those of the PLDT Group, as well as the ability to execute the identified strategies in order to generate fair returns on the investment; and
- our ability to successfully integrate the acquired company or business with our existing businesses.

Any of our contemplated acquisitions and investments may not be consummated due to reasons or factors beyond our control. Even if any contemplated acquisitions and investments are consummated, we may not be able to realize any or all of the anticipated benefits of such acquisitions and investments and we cannot assure you that the consummation of such acquisitions and investments will not result in losses for a prolonged period of time. Moreover, if we are unsuccessful in our contemplated acquisitions and investments, we may not be able to fully implement our business strategy to maintain or grow certain of our businesses and our results of operations and financial position could be materially and adversely affected.

We are exposed to the fluctuations in the market values of our investments.

Given the nature of our business and our foray into the digital business, we have made investments in various start-up companies. For example, in 2014, we invested in Rocket Internet SE (formerly Rocket Internet AG), or Rocket, to drive the development of online and mobile payment solutions, the fair value of which has declined significantly since our investment. Due to the significant decline in fair value of our investment in Rocket Internet, we recognized a series of impairments that amount to, in the aggregate, Php11,045 million, since then. See *Note 12 – Financial Assets at FVPL – Investment of PLDT Online in Rocket Internet* to the accompanying audited consolidated financial statements in Item 7. “Financial Statements” for more information. Credit ratings and market values of this investment and similar investments can be negatively impacted by liquidity, credit deterioration or losses, financial results, foreign exchange rates, or other factors. As a result, our investments could decline and result in a material impairment, which could have a material adverse effect on our financial condition and operating results.

The headquarters building of Smart, Smart Tower, is currently listed for sale. Our operations and financial conditions may be negatively affected if we fail to secure a permanent office building at the expiration of the lease-back agreement, which will form part of the agreement to sell Smart Tower.

We currently own Smart’s headquarters building, Smart Tower, or the Smart Towers Property, which is located in Makati City, Metropolitan Manila. On January 28, 2020, PLDT was authorized by the Board of Directors to negotiate and enter into a contract for the sale of Smart Towers Property. See Item 2. “Description of Property”. The sale will be subject to a lease-back agreement with the eventual buyer, in order for us to keep occupying the building until we find a suitable alternative office building. If at the expiration of such lease-back agreement, we fail to find a suitable office building on favorable terms or at all, we may need to negotiate to extend the lease-back, or find an alternative within a short period of time. On the one hand, we cannot guarantee you that we will be able to extend the lease-back agreement, or extend it on terms favorable to us. On the other hand, any relocation could cause disruption to our operations.

If we are unable to install and maintain telecommunications facilities and equipment in a timely manner, we may not be able to maintain our current market share and the quality of our services, which could have a material adverse effect on our results of operations and financial condition.

Our business requires the regular installation of new, and the maintenance of existing, telecommunications transmission and other facilities and equipment, which are being undertaken. The installation and maintenance of these facilities and equipment are subject to a number of risks and uncertainties, such as:

- shortages of equipment, materials and labor;
- delays in issuance of national and local government building permits;
- work stoppages and labor disputes;
- interruptions resulting from man-made events (e.g., sabotage), epidemics/health crises, inclement weather and other natural disasters;
- rapid technological obsolescence;
- inability of vendors to deliver on commitments;
- unforeseen engineering, environmental and geological problems; and
- unanticipated cost increases.

Any of these factors could give rise to delays or cost overruns in the installation of new facilities or equipment or could prevent us from deploying our networks and properly maintaining the equipment used in our networks, and hence could affect our ability to maintain existing services and roll-out new services, for example, which could have a material adverse effect on our results of operations and financial condition.

Actual or perceived health risks or other problems relating to mobile handsets or transmission masts could lead to litigation or decreased mobile communications usage.

The effects of, and any damage caused by, exposure to an electromagnetic field remain the subject of careful evaluations by the international scientific community. We cannot rule out that exposure to electromagnetic fields or other emissions originating from mobile handsets will not be identified as a health risk in the future. Our mobile business may be harmed as a result of any future alleged, or actual, health risk or the perception of any health risk, which could result in a lower number of customers, reduced usage per customer or even potential consumer liability.

Our business relies on secure network infrastructure and computer systems, and any cyber-attacks against them, or the perception of such attacks, may materially adversely affect our operations, financial condition and results of operations.

We need to constantly upgrade our cyber capabilities to support our business needs. We depend on information and digital services to run our business and deliver value. Our Company faces the following challenges in the era of connectivity, digital identity, decentralized decisions, information monetization, transparency, and variable trust:

- The increase in the variety of products and services that we provide to our customers (e.g. customer premise equipment, systems, devices, IoT, data and their dynamic relationships) exposes relevance as well as scalability issues in our existing security control solutions;
- Our existing deterrence measures against cyber security breaches are becoming less effective. For instance, defensible gates and impermeable walls that are designed to secure our service and information infrastructure have become less effective. While such tools and measures make it difficult to breach into our system, these tools do not stop breaches altogether;
- The infrastructure underlying digitalization of consumer and enterprise services, has become more complex. In order to enhance work efficiency, we allow our employees to work away from the office. This means giving employees access to the core parts of our internal network on their mobile devices, such as mobile phones and notebook computers. Given the large number of points of access to our internal network, we need to constantly make improvements to our cyber infrastructure, and utilize more sophisticated tools to protect it from attacks;
- The consequences of cyber security breach could be severe. On the one hand, breaches resulting in leakage of our Company's confidential commercial and/or personal information may result in irreparable damage to our reputation and brand. Moreover, leakage of sensitive personal information could, in some cases, result in the threat to personal safety;
- Perpetrators are adopting more sophisticated technologies in their attempts to breach our defensive security measures. We see a growing number of automated computer programs being used in initiating attacks; and
- While encrypted internet traffic protects private information, it inadvertently hampers cyber protection efforts. Perpetrators could abuse encrypted communication tools and use them in their efforts to breach into our systems, with less risk of such efforts being discovered by cyber security measures.

In 2019, the PLDT Group's Cyber Security Operations Group detected and mitigated close to 3,000 cyber security-related incidents. These incidents involve the following: (1) malware attacks; (2) use of unauthorized applications; (3) DDoS attacks, (4) network intrusion attempts; (5) unauthorized access (6) failed log in attempts of corporate credentials; and (7) spam emails.

It is worthwhile to note that these incidents did not have financial, legal, or regulatory impact to the company neither did it cause any major disruptions to business operations.

In order to deter the spread of malicious software, the PLDT Group has implemented an endpoint detection and response capability to all endpoints, in order to detect, prevent, and respond to this type of attack. Download and execution of unauthorized applications are also prevented through this endpoint security, coupled with the removal of local administrator accounts.

Network intrusion attempts have not abated. We see vulnerability exploits as the top mode of attack being used. These network intrusion attempts, however, are being automatically blocked.

On incidents pertaining to access management, a strict enforcement of penalties in accordance with PLDT Group's Corporate Information Security Policy is adopted for any violations to the standards. The PLDT Group has also put in place a strict password policy, which includes renewal of the password every 90 days, enforcement of retry time timeout settings, to name a few, as a means of blocking brute force attacks.

We see DDoS attacks on daily basis, which contribute to unplanned increase in network pipe utilization. PLDT group will enhance its anti-DDoS solution to address both volumetric and application layer attacks.

Email spams, on the other hand, are automatically detected, blocked and/or filtered out.

Cable and equipment theft, equipment failures, natural disasters, man-made events, terrorist acts and territorial disputes may materially adversely affect our operations.

Theft of telecommunication cables, major equipment failures or natural disasters, including severe weather, terrorist acts or other similar or related contingencies could adversely affect our wireline and wireless networks, including telephone switching offices, microwave links, third-party-owned local and long-distance networks on which we rely, our cell sites or other equipment, our customer account support and information systems, or employee and business records, and could have a material adverse effect on our operations.

Natural disasters, terrorist acts or acts of war could cause damage to our infrastructure and/or result in significant disruptions to our operations.

Our business operations are subject to interruption by natural disasters, power outages, terrorist attacks, cyber attacks and other events beyond our control. Such events could cause significant damage to our infrastructure upon which our business operations rely, resulting in degradation or disruption of service to our customers. While we maintain insurance coverage for some of these events, the potential liabilities associated with these events could exceed the insurance coverage we maintain. Our system redundancy may be ineffective or inadequate, and our disaster recovery planning may be insufficient for all eventualities. These events could also damage the infrastructure of the suppliers that provide us with the equipment and services that we need to operate our business and provide products to our customers. A natural disaster or other event causing significant physical damage could cause us to experience substantial losses resulting in significant recovery time and expenditures to resume operations. In addition, these occurrences could result in lost revenues from business interruption as well as damage to our reputation.

Our business may be materially and adversely affected by the coronavirus outbreak.

In December 2019, an outbreak of COVID-19 virus was first reported to have surfaced in Wuhan, the People's Republic of China, or PRC, later resulting in tens of thousands of confirmed cases and thousands of fatalities globally, with hundreds of confirmed cases in the Philippines. In March 2020, the World Health Organization declared the COVID-19 outbreak a pandemic. In a move to contain the COVID-19 outbreak, on March 12, 2020, the Office of the President of the Philippines issued a Memorandum directive to impose stringent social distancing measures in the National Capital Region effective March 15, 2020. On March 16, 2020, Presidential Proclamation No. 929 was issued, declaring a State of Calamity throughout the Philippines for a period of six months and imposed an enhanced community quarantine throughout the island of Luzon until April 12, 2020, unless earlier lifted or extended as circumstances may warrant. On March 25, 2020, Republic Act No. 11469, otherwise known as the "Bayanihan to Heal As One Act", was signed into law declaring a state of national emergency over the entire country, and the President of the Philippines is authorized to exercise certain powers necessary to address the COVID-19 pandemic. These measures have caused disruption to businesses and economic activities, and their impacts on businesses continue to evolve.

The outbreak of the COVID-19 and other adverse public health developments, such as the outbreak of avian influenza, severe acute respiratory syndrome, or SARS, Zika virus and Ebola virus could materially and adversely affect our business, financial condition and results of operations. These may include, temporary closures of our facilities or premises, hospitalization or quarantine of our employees, delay or suspension of supplies from our suppliers, especially those located in the PRC, disruptions or suspension of our operational activities, labor shortage due to restrictions on our employees' ability to travel. We have taken certain measures to try and minimize the negative effect that the COVID-19

has on our operations. See Item 4. “Information on the Company – Recent Developments – Measures We Have Taken in Light of the COVID-19 Outbreak”.

In addition, the continued spread of COVID-19 has led to disruption and volatility in the global capital markets. It is possible that the continued spread of COVID-19 could cause a global economic slowdown or recession. The deterioration of the regional economy and financial markets in general will have a material adverse effect on our business, financial condition and results of operations. Furthermore, there is significant uncertainty relating to future developments of the outbreak of the COVID-19 and what actions the Philippine government will take. The impacts of the outbreak of the COVID-19 on our results of operations are highly uncertain.

Climate change could increase the impact of natural disasters and environmental legislation and regulations on our operations.

Climate change poses a number of potential risks for telecommunications operators like us, from both a physical and regulatory perspective. The ongoing global climate change may exacerbate the severity and frequency of natural disasters. The rising intensity and frequency of occurrence of storms, heatwaves and earthquakes could increase the damage to our infrastructure and failures of our wireline and wireless networks caused by such natural disasters. Should severe natural disasters occur in quick succession, we may not have sufficient resources to repair and restore our infrastructure in a timely and cost-effective manner. The increase in likelihood of our infrastructure being damaged by natural disasters could have a material adverse impact on our operations.

In light of the heightened awareness seen across the globe on climate change, the Philippine government could introduce further and more stringent environmental legislation and regulations. If such legislation or regulations are enacted, we could incur increased energy, environmental and other costs and capital expenditures to comply with the limitations. We cannot guarantee that we will at all times be in compliance with any new environmental legislation and regulations. The failure to comply with new environmental legislation and regulations could have a material adverse impact on our operations and financial conditions.

Our businesses require substantial capital investment, which we may not be able to finance.

Our projects under development and the continued maintenance and improvement of our networks and services, including Smart’s projects, networks, platforms and services, require substantial ongoing capital investment. Our consolidated capital expenditures totaled Php72,871 million, Php58,490 million and Php40,299 million for the years ended December 31, 2019, 2018 and 2017, respectively. We currently estimate that our consolidated capital expenditures in 2020 will be approximately Php83 billion.

Future strategic initiatives could require us to incur significant additional capital expenditures. For example, as part of our environmental protection initiative, we plan to conduct inspection of our submarine cables in the next few years. Depending on the results of inspection, we may need to undertake maintenance work for our submarine cables, which may involve a significant sum of capital expenditures. We may be required to finance a portion of our future capital expenditures from external financing sources, some of which have not yet been fully arranged. There can be no assurance that financing for new projects will be available on terms acceptable to us, or at all. If we cannot complete our development programs or other capital projects on time due to our failure to obtain the required financing, our growth, results of operations, financial condition and prospects could be materially and adversely affected. Furthermore, if we are unable to monetize our investments and generate the expected revenues, our cash flows and gearing may be negatively impacted.

Our results of operations and our financial position could be materially and adversely affected if the Philippine peso significantly fluctuates against the U.S. dollar.

A substantial portion of our capital expenditures, a portion of our indebtedness and related interest expense and a portion of our operating expenses are denominated in U.S. dollars and other foreign currencies, whereas most of our revenues are denominated in Philippine pesos. See Note 21 – *Interest-bearing Financial Liabilities* to the accompanying audited consolidated financial statements in Item 7. “Financial Statements”.

A depreciation of the Philippine peso against the U.S. dollar would increase the amount of our U.S. dollar-denominated debt obligations, capital expenditures, and operating and interest expenses in Philippine peso terms. In the event that the Philippine peso depreciates against the U.S. dollar, we may be unable to generate enough funds through operations and other means to offset the resulting increase in our obligations in Philippine peso terms. Moreover, a depreciation of the Philippine peso against the U.S. dollar may result in our recognition of significant foreign exchange losses, which could materially and adversely affect our results of operations. A depreciation of the Philippine peso could also cause us not to be in compliance with the financial covenants imposed on us by our lenders under certain loan agreements and other indebtedness. Further, fluctuations in the Philippine peso value and of interest rates impact the mark-to-market gains/losses of certain of our financial debt instruments, which were designated as non-hedged items.

The Philippine peso has been subject to significant depreciation in recent years with the Philippine peso depreciated by approximately 28% from a high of Php41.08 for year end 2012 to Php50.80 as at December 31, 2019 and further depreciated to Php51.04 as at March 30, 2020. We cannot assure you that the Philippine peso will not depreciate further and be subject to significant fluctuations going forward, due to a range of factors, including:

- political and economic developments affecting the Philippines, including the level of remittances from

OFWs;

- global economic and financial trends;
- the volatility of emerging market currencies;
- any interest rate increases by the Federal Reserve Bank of the United States and/or the BSP; and
- higher demand for U.S. dollars by both banks and domestic businesses to service their maturing U.S. dollar obligations or foreign exchange traders including banks covering their short U.S. dollar positions, among others.

Our debt instruments contain restrictive covenants which require us to maintain certain financial tests and our indebtedness could impair our ability to fulfill our financial obligations and service our other debt.

Our existing debt instruments contain covenants which, among other things, require PLDT to maintain certain financial ratios and other financial tests, calculated on the basis of PFRS at relevant measurement dates, principally at the end of each quarter period. For a description of some of these covenants, see *Note 21 – Interest-bearing Financial Liabilities* to the accompanying audited consolidated financial statements in Item 7. “Financial Statements”.

Our indebtedness and the requirements and limitations imposed by our debt covenants could have important consequences. For example, we may be required to dedicate a substantial portion of our cash flow to payments on our indebtedness, which could reduce the availability of our cash flow to fund working capital, capital expenditures and other general corporate requirements.

The principal factors that could negatively affect our ability to comply with these financial ratio covenants and other financial tests are depreciation of the Philippine peso relative to the U.S. dollar, poor operating performance of PLDT and its subsidiaries, impairment or similar charges in respect of investments or other long-lived assets that may be recognized by PLDT and its subsidiaries, and increases in our interest expense. Interest expense may increase as a result of various factors including issuance of new debt, the refinancing of lower cost indebtedness by higher cost indebtedness, depreciation of the Philippine peso relative to the U.S. dollar, the lowering of PLDT’s credit ratings or the credit ratings of the Philippines, increase in reference interest rates, and general market conditions. Of our total consolidated debts, approximately 9% and 13% were denominated in U.S. dollars as at December 31, 2019 and 2018, respectively. Considering our consolidated hedges and U.S. dollar cash balances allocated for debt, the unhedged portion of our consolidated debt amounts were approximately 8% and 12% as at December 31, 2019 and 2018, respectively, therefore, the financial ratio and other tests are expected to be negatively affected by any weakening of the Philippine peso relative to the U.S. dollar.

If we are unable to meet our debt service obligations or comply with our debt covenants, we may need to restructure or refinance our indebtedness, seek additional equity capital or sell assets. An inability to effect these measures successfully could result in a declaration of default and an acceleration of maturities of some or all of our indebtedness, which could have a material adverse effect on our business, results of operations and financial condition.

Our subsidiaries could be limited in their ability to pay dividends to us due to internal cash requirements and their creditors having superior claims over their assets and cash flows, which could materially and adversely affect our financial condition.

A significant part of our total revenues and cash flows from operating activities are derived from our subsidiaries, particularly Smart. Smart has significant internal cash requirements for debt service, capital expenditures and operating expenses and as a result, may be financially unable to pay any dividends to PLDT. Although Smart has been making dividend payments to PLDT regularly since December 2002, there can be no assurance that PLDT will continue to receive these dividends or other distributions, or otherwise be able to derive liquidity from Smart or any other subsidiary or investee in the future.

Creditors of our subsidiaries generally have priority claims over our subsidiaries’ assets and cash flows. We and our creditors will effectively be subordinated to the existing and future indebtedness and other liabilities, including trade payables, of our subsidiaries, except that we may be recognized as a creditor with respect to loans we have made to subsidiaries. If we are recognized as a creditor of a subsidiary, our claim will still be subordinated to any indebtedness secured by assets of the subsidiary and any indebtedness of the subsidiary otherwise deemed superior to the indebtedness we hold.

We may have difficulty meeting our debt payment obligations if we do not continue to receive cash dividends from our subsidiaries and our financial condition could be materially and adversely affected as a result.

A significant number of shares of PLDT's voting stock are held by four shareholders, which may not act in the interests of other shareholders or stakeholders in PLDT.

As at February 29, 2020, the First Pacific Group and its Philippine affiliates, NTT Communications and NTT DOCOMO, and JG Summit Holdings, Inc. and its affiliates, or JG Summit Group, collectively, beneficially own approximately 57.2% in PLDT's outstanding common stock (representing 33.8% of our overall voting stock). See Item 11. "Security Ownership of Certain Beneficial Owners, Directors and Executive Officers" for further details regarding the shareholdings of NTT Communications and NTT DOCOMO in PLDT, and the rights granted pursuant to the Cooperation Agreement, Strategic Agreement and the Shareholders Agreement.

Additionally, all of PLDT's shares of voting preferred stock, which represent approximately 41% of PLDT's total outstanding shares of voting stock are owned by a single stockholder, BTF Holdings, Inc., or BTFHI.

The FP Parties and/or NTT Communications and/or NTT DOCOMO and/or JG Summit Group and/or BTFHI may exercise their respective voting rights over certain decisions and transactions in a manner that could be contrary to the interests of other shareholders or stakeholders in PLDT.

Failure to maintain effective internal control over financial reporting in accordance with Section 404 of the Sarbanes-Oxley Act of 2002 could adversely impact investor confidence and the market price of our common shares and ADSs, and have a material adverse effect on our business, our reputation, financial condition and results of operations.

We are required to comply with various Philippine and U.S. laws and regulations on internal control. However, internal control over financial reporting may not prevent or detect misstatements because of its inherent limitations, including the possibility of human error, the circumvention or overriding of controls, or fraud. Therefore, even effective internal control over financial reporting can provide only reasonable assurance with respect to the preparation and fair presentation of financial statements. If we fail to maintain the adequacy of our internal control over financial reporting, including our failure to implement required new or improved controls, or if we experience difficulties in their implementation, our business and operating results could be harmed, we could fail to meet our reporting obligations and there could be a material adverse effect on our business, our reputation, financial condition and results of operations, and the market prices of our common shares and ADSs could decline significantly.

We are unionized and are vulnerable to work stoppages, slowdowns or increased labor costs.

As at December 31, 2019, PLDT has three employee unions, representing in the aggregate 9,099, or 48%, of the employees of the PLDT Group. This unionized workforce could result in demands that may increase our operating expenses and adversely affect our profitability. For instance, PLDT experienced significant charges from its manpower rightsizing program in 2019, 2018 and 2017, mainly incurred in the fixed-line business. See *Note 5 – Income and Expenses – Compensation and Employee Benefits* to the accompanying audited consolidated financial statements in Item 7. "Financial Statements". Each of our different employee groups require separate collective bargaining agreements. If PLDT and any of its unions are unable to reach an agreement on the terms of their collective bargaining agreement or if we were to experience widespread employee dissatisfaction, we could be subject to work slowdowns or stoppages. Any of these events would be disruptive to our operations and could harm our business.

Additionally, on July 3, 2017, PLDT received a Compliance Order from the Department of Labor and Employment of the Philippines, or DOLE, in connection with the non-payment of statutorily required monetary benefits, including the 13th month pay, to certain contractor employees. On July 31, 2018, the Court of Appeals promulgated a decision granting PLDT's prayer for an injunction against the Compliance Order and remanded back to the DOLE for further proceedings the computation of the monetary awards, which in the regularization orders amounted to Php51.8 million. We cannot guarantee that PLDT or its subsidiaries will not be subject to similar proceedings or other labor-related regulatory activities, the results of which may have an adverse reputational and/or financial impact. See *Note 27 – Provisions and Contingencies* to the accompanying audited consolidated financial statements in Item 7. "Financial Statements".

The loss of key personnel or the failure to attract and retain highly qualified personnel could compromise our ability to effectively manage our business and pursue our growth strategy.

Our future performance depends on our ability to attract and retain highly qualified key technical, development, sales, services and management personnel. The loss of key employees could result in significant disruptions to our business, and the integration of replacement personnel could be costly and time consuming, could cause additional disruptions to our business, and could be unsuccessful. We cannot guarantee the continued employment of any of the members of our senior leadership team, who may depart our Company for any number of reasons, such as other business opportunities, differing views on our strategic direction or other personal reasons. Any inability to attract, retain or motivate our personnel could have a material adverse effect on our results of operations and prospects.

Adverse results of any pending or future litigation, internal or external investigations and/or disputes may impact PLDT's cash flows, results of operations and financial condition.

We are currently involved in various legal proceedings. Our estimate of the probable costs for the resolution of these claims have been developed in consultation with our counsel handling the defense in these matters and is based upon our

analysis of potential results. Our future financial performance could be materially affected by an adverse outcome or by changes in our estimates or effectiveness of our strategies relating to these proceedings and assessments.

For more information on PLDT's legal proceedings, see Item 3. "Legal Proceedings" and *Note 27 – Provisions and Contingencies* to the accompanying consolidated financial statements in Item 7. "Financial Statements." While PLDT believes the positions it has taken in these cases are legally valid, the final results of these cases may prove to be different from its expectations. In addition, there is no assurance that PLDT will not be involved in future litigation or other disputes, the results of which may materially and adversely impact its business and financial conditions.

Our financial condition and operating results will be impaired if we experience high fraud rates related to device financing, credit cards, dealers, or subscriptions.

Our operating costs could increase substantially as a result of fraud, including device financing, customer credit card, subscription, or dealer fraud. If our fraud detection strategies and processes are not successful in detecting and controlling fraud, whether directly or by way of the systems, processes, and operations of third parties such as customers, national retailers, dealers, and others, the resulting loss of revenue or increased expenses could have a material adverse effect on our financial condition and operating results.

Risks Relating to the Philippines

PLDT's business may be adversely affected by political or social or economic instability in the Philippines.

The Philippines is subject to political, social and economic volatility that, directly or indirectly, could have a material adverse impact on our ability to sustain our business and growth.

The Philippines, China and several Southeast Asian nations have been engaged in a series of long-standing territorial disputes over certain islands in the West Philippine Sea, also known as the South China Sea. Should these territorial disputes continue or escalate further, the Philippines and its economy may be disrupted and our operations could be adversely affected as a result. In particular, further disputes between the Philippines and China may lead both countries to impose trade restrictions on the other's imports. Any such impact from these disputes could adversely affect the Philippine economy, and materially and adversely affect our business, financial position and financial performance.

We cannot assure you that the political environment in the Philippines will be stable or that the current or any future government will adopt economic policies that are conducive to sustained economic growth or which do not materially and adversely impact the current regulatory environment for the telecommunications and other companies.

If foreign exchange controls were to be imposed, our ability to meet our foreign currency payment obligations could be adversely affected.

The Philippine government has, in the past, instituted restrictions on the conversion of the Philippine peso into foreign currencies and the use of foreign exchange received by Philippine companies to pay foreign currency-denominated obligations. The Monetary Board of the BSP has statutory authority, with the approval of the President of the Philippines, during a foreign exchange crisis or in times of national emergency, to:

- suspend temporarily or restrict sales of foreign exchange;
- require licensing of foreign exchange transactions; or
- require the delivery of foreign exchange to the BSP or its designee banks.

We cannot assure you that foreign exchange controls will not be imposed in the future. If imposed, these restrictions could materially and adversely affect our ability to obtain foreign currency to service our foreign currency obligations.

As a foreign private issuer, we follow certain home country corporate governance practices which may afford less protection to holders of our ADSs.

As a foreign private issuer incorporated in the Philippines and listed on the PSE, we are permitted under applicable NYSE rules to follow certain home country corporate governance practices. The corporate governance practice and requirements in the Philippines do not require us to have a majority of the members of our board of directors to be independent, and do not require regularly scheduled executive sessions of non-management directors or regularly scheduled executive sessions where only independent directors are present. Further, the criteria for independence of directors and audit committee members applicable in the Philippines differ from those applicable under the NYSE rules. These Philippine home country corporate governance practices may afford less protection to holders of our ADSs.

The credit ratings of the Philippines may restrict the access to capital of Philippine companies, including PLDT.

Historically, the Philippines' sovereign debt has been rated non-investment grade by international credit rating agencies. In 2019, the Philippines' long-term foreign currency-denominated debt was upgraded by S&P Global, or S&P, to BBB+ with stable outlook, while Fitch Ratings, or Fitch, and Moody's Investors Service, or Moody's, affirmed the Philippines' long-term foreign currency-denominated debt to the investment-grade rating of BBB and Baa2, respectively, with a stable outlook. The Philippine Government's credit ratings will directly affect companies domiciled in the

Philippines as international credit rating agencies issue credit ratings by reference to that of the sovereign. No assurance can be given that Fitch, Moody's, S&P, or any other international credit rating agency will not downgrade the credit ratings of the Philippine Government in the future and, therefore, Philippine companies, including PLDT. Any such downgrade could have a material adverse impact on the liquidity in the Philippine financial markets, the ability of the Philippine Government and Philippine companies, including PLDT, to raise additional financing, and the interest rates and other commercial terms at which such additional financing is available.

Item 7. Financial Statements

Our consolidated financial statements (pages F-1 to F-180) and supplementary schedules (pages S-1 to S-12) listed in the accompanying Index to Financial Statements and Supplementary Schedules on page 116 are filed as part of this annual report.

Item 8. Information on Independent Auditors and Other Related Matters

Independent Auditors' Fees and Services

The following table summarizes the fees paid or accrued for services rendered by SGV & Co., our independent auditors for the years ended December 31, 2019 and 2018:

	2019	2018
	(in millions)	
Audit Fees	Php48	Php48
All Other Fees	20	21
Total	Php68	Php69

Audit Fees. This category includes the audit of our annual financial statements and services that are normally provided by the independent auditors in connection with statutory and regulatory filings or engagements for those fiscal years.

Audit-Related Fees. Other than the audit fees, we did not have any other audit-related fees for the years ended December 31, 2019 and 2018.

Tax Fees. We did not have any tax fees for the years ended December 31, 2019 and 2018.

All Other Fees. This category consists primarily of fees with respect to our Sarbanes-Oxley Act 404 assessment in 2019 and 2018, and other non-audit engagements.

The fees presented above includes out-of-pocket expenses incidental to our independent auditors' work, amount of which do not exceed 5% of the agreed-upon engagement fees.

Our AC pre-approved all audit and non-audit services as these are proposed or endorsed before these services are performed by our independent auditors.

Changes in and Disagreements with Independent Auditors on Accounting and Financial Disclosure

We have no disagreements with our independent auditors on any matter of accounting principles or practices, financial statement disclosure, or auditing scope or procedure.

PART III – CONTROL AND COMPENSATION INFORMATION

Item 9. Directors and Officers

The Board of Directors is principally responsible for PLDT’s overall direction and governance. PLDT’s Articles of Incorporation provide for 13 members of the Board, who shall be elected by the stockholders. At present, three of PLDT’s 13 directors are independent directors. The Board holds office for a one year period and until their successors are elected, and are qualified in accordance with the By-Laws.

The name, age and period of service, of each of the current directors, including independent directors, of PLDT as at February 29, 2020 are as follows:

Name	Age	Period during which individual has served as such
Manuel V. Pangilinan	73	November 24, 1998 to present
Manuel L. Argel, Jr. ⁽¹⁾	70	January 28, 2020 to present
Helen Y. Dee	75	June 18, 1986 to present
Ray C. Espinosa	63	November 24, 1998 to present
James L. Go	80	November 3, 2011 to present
Shigeki Hayashi	52	August 10, 2017 to present
Junichi Igarashi	55	August 9, 2018 to present
Aurora C. Ignacio ⁽²⁾	63	November 8, 2018 to January 27, 2020
Bernido H. Liu ⁽³⁾	57	September 28, 2015 to present
Retired Supreme Court Chief Justice Artemio V. Panganiban ⁽³⁾	83	April 23, 2013 to present
Albert F. del Rosario	80	July 11, 2016 to present
Pedro E. Roxas ⁽³⁾	63	March 1, 2001 to present
Marife B. Zamora	67	November 14, 2016 to present
Ma. Lourdes C. Rausa-Chan	66	March 29, 2011 to present

⁽¹⁾ Elected by the Board as representative director of Social Security System in its meeting held on January 28, 2020.

⁽²⁾ Resigned as representative director of Social Security System effective January 28, 2020.

⁽³⁾ Independent Director.

The name, age, position and period of service of the executive officers of PLDT as at February 29, 2020 are as follows:

Name	Age	Position(s)	Period during which individual has served as such
Executive Officers:			
Manuel V. Pangilinan	73	Chairman of the Board President and CEO	February 19, 2004 to present January 1, 2016 to present
Alfredo S. Panlilio ⁽¹⁾	56	Chief Revenue Officer	July 1, 2019 to present
Anabelle L. Chua	59	Senior Vice President Chief Financial Officer of PLDT Chief Risk Management Officer Corporate Finance and Treasury Head Treasurer Chief Financial Officer of Smart	February 26, 2002 to present May 18, 2015 to present August 9, 2018 to present March 1, 1998 to May 17, 2015 February 1, 1999 to May 17, 2015 December 1, 2005 to May 17, 2015
Gina Marina P. Ordoñez	58	Senior Vice President Chief People Officer	May 1, 2019 to present March 21, 2019 to present
Victorico P. Vargas	68	Business Transformation Office Head	January 1, 2016 to present
Marilyn A. Victorio-Aquino	64	Senior Vice President Chief Legal Counsel	January 1, 2019 to present December 1, 2018 to present
Ma. Lourdes C. Rausa-Chan	66	Senior Vice President Corporate Secretary Corporate Affairs and Legal Services Head Chief Governance Officer	January 5, 1999 to November 30, 2018 November 24, 1998 to present January 5, 1999 to November 30, 2018 March 4, 2008 to present
Alejandro O. Caeg	59	Senior Vice President Consumer Business – Sales Head Consumer Business Customer Development Head Wireless Consumer Division Sales and Distribution Head of Smart International and Carrier Business Head	January 1, 2012 to present July 31, 2019 to present August 1, 2017 to July 30, 2019 December 1, 2016 to July 31, 2017 March 1, 2009 to November 30, 2016
Juan Victor I. Hernandez	46	Senior Vice President Enterprise Business Head Corporate Business Head	March 23, 2017 to present December 1, 2016 to present August 2009 to November 30, 2016
Menardo G. Jimenez, Jr.	56	Senior Vice President Consumer Business – Home Head Human Resources Head and Fixed Line BTO Head Business Transformation Office – Revenue Team Head Retail Business Head Corporate Communications and Public Affairs Head BTO Deputy Head	December 9, 2004 to present July 31, 2019 to present August 1, 2010 to November 30, 2016 January 1, 2008 to July 2010 June 16, 2004 to December 31, 2007 December 1, 2001 to June 15, 2004 January 1, 2017 to July 30, 2019
June Cheryl A. Cabal-Revilla	46	Senior Vice President Financial Reporting and Controllershship Head PLDT Group Controller Chief Financial Officer of Smart and DMPI Chief Sustainability Officer Financial Reporting and Planning Head	May 12, 2017 to present November 15, 2006 to present May 18, 2015 to present May 18, 2015 to present December 3, 2019 to present May 1, 2002 to November 15, 2006
Leo I. Posadas	53	First Vice President Treasurer	March 6, 2007 to present May 18, 2015 to present

⁽¹⁾ Appointment as Chief Revenue Officer effective July 1, 2019 was approved by the Board of Directors in the meeting held on May 9, 2019.

At least three of our directors, namely, Retired Supreme Court Chief Justice Artemio V. Panganiban, Pedro E. Roxas and Bernido H. Liu, are independent directors who are neither officers nor employees of PLDT or any of its subsidiaries, and who are free from any business or other relationship with PLDT or any of its subsidiaries which could, or could reasonably be perceived to, materially interfere with the exercise of independent judgment in carrying out their responsibilities as independent directors. The independence standards/criteria are provided in our By-Laws and Corporate Governance Manual pursuant to which, in general, a director may not be deemed independent if such director is, or in the past five years had been, employed in an executive capacity by us or any company controlling, controlled by or under common control with us or he is, or within the past five years had been, retained as a professional adviser by us or any of our related companies, or he is not free from any business or other relationships with us which could, or could reasonably be perceived, to materially interfere with his exercise of independent judgment in carrying out his responsibilities as a director.

The following is a brief description of the business experiences of each of our directors, executive officers and advisors for at least the past five years:

Mr. Manuel V. Pangilinan, 73 years old, has been a director of PLDT since November 24, 1998. He was appointed as Chairman of the Board of Directors of PLDT after serving as its President and Chief Executive Officer from November 1998 to February 2004. Since January 1, 2016, he holds the position of President and Chief Executive Officer of PLDT, and served as President and Chief Executive Officer of Smart until August 7, 2019. He is the Chairman of the Governance and Nomination, Executive Compensation and Technology Strategy Committees of the Board of Directors of PLDT. He also serves as Chairman of Metro Pacific Investments Corporation (MPIC), Meralco, PXP Energy Corporation and Philex Mining Corporation, and Vice Chairman of Roxas Holdings, Inc., all of which are PSE-listed companies, and of several subsidiaries or affiliates of PLDT or MPIC, including, among others, Smart, Digital Mobile Philippines, Inc., Digital Telecommunications Phils, PLDT Communications & Energy Ventures, Inc., ePLDT, Inc., Beacon Electric Assets Holdings Inc., Manila North Tollways Corporation, Maynilad Water Services Corporation, Landco Pacific Corporation, Metro Pacific Hospital Holdings, Inc., Medical Doctors Incorporated (Makati Medical Center), Colinas Verdes Corporation (Cardinal Santos Medical Center), Davao Doctors Incorporated, Riverside Medical Center Incorporated, Our Lady of Lourdes Hospital and Asian Hospital Incorporated. He is also the Chairman of MediaQuest Holdings Inc., TV5 Network, Inc. and PLDT-Smart Foundation.

Mr. Pangilinan founded First Pacific Company Limited (“First Pacific”), a Hong Kong Stock Exchange-listed company, in 1981 and serves as its Executive Chairman, Managing Director and Chief Executive Officer. Within the First Pacific Group, he also holds the position of President Commissioner of P.T. Indofood Sukses Makmur Tbk, the largest food company in Indonesia.

Outside the First Pacific Group, Mr. Pangilinan is the Chairman of the Board of Trustees of San Beda College and Amateur Boxing Association of the Philippines, a governing body of amateur boxers in the country, and the Chairman Emeritus of the Samahang Basketbol ng Pilipinas. He is also the Chairman of Philippine Business for Social Progress, the largest private sector social action organization made up of the country’s largest corporations. He is a Co-Chairman of the Philippine Disaster Resilience Foundation, Inc., a non-stock, non-profit foundation established to formulate and implement a reconstruction strategy to rehabilitate and rebuild areas devastated by floods and other calamities, and of the US-Philippine Business Society, a non-profit society which seeks to broaden the relationship between the United States and the Philippines in the areas of trade, investment, education, foreign and security policies and culture.

Mr. Pangilinan has received numerous prestigious awards including the Business Icon Gold Award for having greatly contributed to the Philippine economy through achievements in business and society by Biz News Asia magazine (2008), Global Filipino Executive of the Year for 2010 by Asia CEO Awards, and Philippines Best CEO for 2012 by Finance Asia.

Mr. Pangilinan graduated cum laude from the Ateneo de Manila University, with a Bachelor of Arts Degree in Economics. He received his Master’s Degree in Business Administration from Wharton School of Finance & Commerce at the University of Pennsylvania, where he was a Procter & Gamble Fellow. He was conferred a Doctor of Humanities Degree (Honoris Causa) by the San Beda College (2002), Xavier University (2007), Holy Angel University (2009) and Far Eastern University (2010).

Retired Judge Manuel L. Argel, Jr., 70 years old, is a member of the Philippines Social Security Commission (SSC), the Governing Board of the Social Security System (SSS). He participates in the governance of the SSS in terms of providing policy directions, monitoring and overseeing management actions. He also performs quasi-judicial functions in decisions rendered on cases involving SSS coverage, benefits, contributions and penalties.

He started his law career as an associate in private full-service law firms until he formed his own law firm in 1981. While in private practice, Retired Judge Argel was accredited in 1995 as a Voluntary Labor Arbitrator of the National Conciliation and Mediation Board. He also served as President of the Integrated Bar of the Philippines (Ilocos Chapter) from 1993 to 1995, Provincial Secretary of the National Citizens’ Movement for Free Elections, Chairman of the Ilocos Sur Local Amnesty Board, and a member of the People’s Assistance Development Action Center, Inc.

His stint in the government started when he was elected as a member of the Sangguniang Bayan of Vigan City in 1980. In 2008, he received the Legislator’s Award given by the City Government of Vigan in recognition of his accomplishments and contributions as former legislator of Vigan City.

In 1995, he was appointed as Regional Trial Court (RTC) Judge of Laoag City and served as Executive Judge from 2005 to 2007 and Presidential Assistant for Region I in the Philippine Judges Association. He retired from the Judiciary in 2015. His record of public service as a judge was marked by a very high degree of competence, integrity, dedication and independence.

He obtained his Bachelor of Arts in Philosophy and Bachelor of Laws Degrees from San Beda College.

Ms. Helen Y. Dee, 75 years old, has been a director of PLDT since June 18, 1986. She is the Chairperson or a director of EEI Corporation, House of Investments, Petro Energy Resources Corporation and Rizal Commercial Banking Corporation, all of which are PSE-listed companies. She is the Chairperson, Vice Chairperson or a director of several companies engaged in banking, insurance and real property businesses, which are listed on page 96 hereof. Ms. Dee received her Master’s Degree in Business Administration from De La Salle University.

Atty. Ray C. Espinosa, 63 years old, has been a director of PLDT since November 24, 1998, is a member of the Technology Strategy Committee of the Board of Directors of PLDT, and Senior Advisor to the President and CEO of PLDT since January 28, 2019. He is a trustee of the PLDT-Smart Foundation Inc. and the Beneficial Trust Fund of PLDT. He was PLDT’s Chief Corporate Services Officer from December 2016 until January 28, 2019. He served as President and CEO of ePLDT Inc. and its subsidiaries from July 2000 until April 2010 and as President and CEO of TV5 Network Inc. and Cignal TV Inc. from December 2009 until May 2013.

Atty. Espinosa is also the President and CEO of Meralco. He is a director of Roxas Holdings Inc., an independent director of Lepanto Consolidated Mining Company and chairman of its Audit Committee, and an independent director of Maybank Philippines Inc. and chairman of its Risk Management Committee. He is also the chairman of the Philstar Group of Companies and BusinessWorld Publication Corporation. In June 2013, he joined First Pacific Company Limited as Associate Director.

He has a Master of Laws degree from the University of Michigan School of Law and a Bachelor of Laws degree from the Ateneo de Manila University School of Law, and is a member of the Integrated Bar of the Philippines. He was a partner of SyCip Salazar Hernandez & Gatmaitan from 1982 to 2000, a foreign associate at Covington and Burling (Washington, D.C.) from 1987 to 1988, and a law lecturer at the Ateneo de Manila School of Law from 1983 to 1985 and 1989. He placed first in the 1982 Philippine Bar Examinations.

Mr. James L. Go, 80 years old, has been a director of PLDT since November 3, 2011, and is a member of the Technology Strategy and Risk Committees and Advisor of the Audit Committee of the Board of Directors. He is the Chairman of JG Summit Holdings, Inc. and Cebu Air, Inc., the Chairman and Chief Executive Officer of Oriental Petroleum and Minerals Corporation, the Chairman Emeritus of Universal Robina Corporation and Robinsons Land Corporation, the Vice Chairman of Robinsons Retail Holdings, Inc., and a director of Meralco, which are PSE-listed companies. He is also the Chairman Emeritus of JG Summit Petrochemical Corporation and JG Summit Olefins Corporation, and a director of United Industrial Corporation Limited, Marina Center Holdings Private Limited and Hotel Marina City Private Limited. He is also the President and a trustee of the Gokongwei Brothers Foundation. He was the Vice Chairman and President and Chief Executive Officer of Digital Telecommunications, Inc. until October 26, 2011. Mr. Go received his Bachelor of Science Degree and Master of Science Degree in Chemical Engineering from Massachusetts Institute of Technology, USA.

Mr. Shigeki Hayashi, 52 years old, has been a director of PLDT since August 10, 2017. He is the Senior Vice President, Corporate Planning, NTT Worldwide Telecommunications Corporation since NTT Group's global reorganization in 2019. He handles corporate strategy and planning of the global business previously operated by NTT Communication Corporation ("NTT Com"). His previous positions in NTT Com were Vice President, Global Business (2016 to 2019), Director-Planning, Global Business (2012 to 2016), Senior Manager-Overseas Business Management, Global Business (2007 to 2012) and Senior Manager-Tax Accounting Division, Accounts and Finance Department (1999 to 2004). He was the Deputy General Manager-Corporate Management Department of NTT Europe Ltd. from 2004 to 2007. Mr. Hayashi obtained his Bachelor of Economics Degree from Osaka University.

Mr. Junichi Igarashi, 56 years old, has been a director of PLDT since August 9, 2018. He is a member of the Governance & Nomination, Executive Compensation, Technology Strategy and Risk Committees, and an Advisor of the Audit Committee of the Board of Directors of PLDT. From 2016 to 2018, he served as a Director of NTT DOCOMO, Smart Life Business Division in Tokyo, Japan. He developed and sold a language translation & travel mobile application (Jspeak: Japanese – 10 languages) for inbound travelers to Japan. From 2006 to 2016, he represented NTT DOCOMO as a GSMA PSMC (Product & Service Management Committee) member and exchanged strategic views about mobile industry with top 25 largest MNOs. On top of that, from 2013 to 2016, he was assigned in London, UK as General Manager for DOCOMO Europe, Inc. (a subsidiary of NTT DOCOMO) and worked with GSMA executives in GSMA London HQ. From 2006-2013, he served as a Director of NTT DOCOMO, Global Business Division in Japan. He conducted the PoC of WiMax Service in Canada (with Primus Communications, Inc.) and in Singapore (with InterTouch, Inc.). Prior to that, he served as a Director of Business Development and Head of Japanese Corporate Sales Division from 2003-2006 in StarHub, Singapore.

Mr. Igarashi received his Master Degree in Mechanical Engineering from Tokyo University and his Master of Business Administration from the University of Michigan Ann Arbor, USA.

Mr. Bernido H. Liu, 57 years old, has been an independent director of PLDT since September 28, 2015 and is an independent member of the Audit, Governance and Nomination, Executive Compensation and Risk Committees of the Board of Directors of PLDT. He is the Chairman and Chief Executive Officer of GOLDEN ABC, Incorporated. ("GABC"), a fashion retail company which creates and sells its own clothing, personal care and accessory lines marketed and retailed under a dynamic portfolio of well-differentiated proprietary brands. He is the Group Chairman of LH Paragon Incorporated, a business holdings company which has under its management GABC and other companies in various industries, namely, Matimco Incorporated, Oakridge Realty Development Corporation, Basic Graphics Incorporated, Essentia Medical Group Incorporated, Red Logo Lifestyle Inc., Greentree Food Solutions, Inc., and a director of GABC International Pte Limited (SG). He is a trustee for Children's Hour Philippines and of the Philippine Retailers Association, and a director for Mga Likha ni Inay, Inc., and until March 27, 2018, was an independent member of the Board of Trustees of the PLDT-SMART Foundation, Inc.

Mr. Liu graduated with a Bachelor of Science Degree in Architecture from the University of San Carlos, Cebu, and completed the Executive Education Owner/President Management Program of the Harvard Business School. Over the years, Mr. Liu and GABC under his leadership have been recognized by different award-giving bodies. Awards include, among others, the Agora Award for Outstanding Achievement in Entrepreneurship from the Philippine Marketing Association, Ten Outstanding Young Men for Entrepreneurship, Global Retailer of the Year from the Philippine Retailers Association and the DTI, and the ASEAN Business Award of Excellence for Priority Integration Sector in Retail.

Hon. Artemio V. Panganiban, 83 years old, has been an independent director of PLDT since April 23, 2013 and is serving as an independent member of the Audit, Governance and Nomination, Executive Compensation and Risk Committees of the Board of Directors of PLDT. He was appointed as the Lead Independent Director effective March 21, 2019. He served as an independent member of the Advisory Board and an independent non-voting member of the Governance and Nomination Committee of the Board of Directors of PLDT from June 9, 2009 to May 6, 2013. Currently, he is also an independent director of Meralco, Petron Corporation, First Philippine Holdings Corporation, Metro Pacific Investments Corporation, Robinsons Land Corporation, GMA Network, GMA Holdings, and Asian Terminals, Inc., and a regular director of Jollibee Foods Corporation, all of which are PSE-listed companies, as well as a senior adviser of Metropolitan Bank and Trust Company, a member of the Advisory Council of the Bank of the Philippine Islands and an adviser of Double Dragon Properties, Corp. He is also Chairman of the Board of Trustees of the Foundation for Liberty and Prosperity, and of the Board of Advisers of Metrobank Foundation, Inc., a trustee of Tan Yan Kee Foundation and Claudio Teehankee Foundation, President of the Manila Metropolitan Cathedral-Basilica Foundation, a member of the Advisory Board of World Bank (Philippines), Chairman-Emeritus of the Philippine Dispute

Resolution Center, Inc., Chairman of the Philippine National Committee of the Asean Law Association, a member of the Permanent Court of Arbitration in The Hague, Netherlands, and a column writer of the Philippine Daily Inquirer.

Hon. Panganiban served the Supreme Court of the Philippines for more than 11 years, first as Associate Justice (October 10, 1995 to December 20, 2005) and later, as Chief Justice (December 21, 2005 to December 6, 2006) during which he sat concurrently as Chairperson of the Presidential Electoral Tribunal, Judicial and Bar Council and Philippine Judicial Academy. He has received over 250 awards in recognition of his role as jurist, practicing lawyer, professor, civic leader, Catholic lay worker and business entrepreneur, including “The Renaissance Jurist of the 21st Century” given by the Supreme Court on the occasion of his retirement from the Court. Hon. Panganiban graduated cum laude from Far Eastern University with a Bachelor of Laws Degree in 1960, and was conferred a Doctor of Laws Degree (Honoris Causa) by the University of Iloilo (1997), Far Eastern University (2002), University of Cebu (2006), Angeles University (2006) and Bulacan State University (2006). He was co-founder and past president of the National Union of Students of the Philippines.

Ambassador Albert F. del Rosario, 80 years old, has been a director of PLDT since July 11, 2016 and is a member of the Technology Strategy Committee of the Board of Directors of PLDT. He was the former Secretary of Foreign Affairs of the Philippines from February 2011 to March 2016 and also served as Philippine Ambassador to the United States of America from October 2001 to August 2006. Prior to entering public service, he was on the Board of Directors of various firms. His business career for over four decades has spanned the insurance, banking, real estate, shipping, telecommunications, advertising, consumer products, retail, pharmaceutical and food industries.

Ambassador del Rosario is the Chairman of Philippine Stratbase Consultancy, Inc., Gotuaco del Rosario Insurance Brokers, Inc., Stratbase ADR Institute, Inc., Citizens for Promoting Human Rights, Inc. and a director of Metro Pacific Investments Corporation and Rockwell Land Corporation (both PSE-listed companies), Indra Philippines, Inc., Metro Pacific Tollways Corporation, Two Rivers Pacific Holdings Corporation, Metro Pacific Resources, Inc., Metro Pacific Holdings, Inc., Metro Pacific Asset Holdings, Inc., Philippine Telecommunications Investment Corporation, Enterprise Investments Holdings, Inc. and Asia Insurance (Phil.) Corp. He is also a trustee of the Carlos P. Romulo Foundation for Peace & Development and Philippine Cancer Society, Inc. and a member of the Asia Society Global Council and the Advisory Board of CSIS Southeast Asia Program and Metrobank Foundation, Inc.

Ambassador del Rosario received numerous awards and recognition for his valuable contributions to the Philippines and abroad. In September 2004, he was conferred the Order of Sikatuna, Rank of Datu, by H.E. President Gloria Macapagal-Arroyo for his outstanding efforts in promoting foreign relations for the Philippines and the Order of Lakandula with a Rank of Grand Cross (Bayani) for acting as Co-Chair of the 2015 APEC in December 2015. He was a recipient of the EDSA II Presidential Heroes Award in recognition of his work in fostering Philippine democracy in 2001 and the Philippine Army Award from H.E. President Corazon Aquino for his accomplishments as Chairman of the Makati Foundation for Education in 1991. He was awarded as 2013 Professional Chair for Public Service and Governance by Ateneo School of Government and the Metrobank Foundation, 2014 Management Man of the Year by Management Association of the Philippines, 2016 Outstanding Government National Official by Volunteers Against Crime and Corruption (VACC), 2016 Asia CEO Award as Life Contributor, and Manuel L. Quezon Gawad Parangal as Quezon City’s Most Outstanding Citizens for 2016. He was elevated to the Xavier Hall of Fame in New York City in 2006. He received the AIM Washington Sycip Distinguished Management Leadership Award in 2011, Doctor of Laws (Honoris Causa) for “principled commitment to democracy, integrity and the rule of law both at home and around the globe” conferred by the College of Mount Saint Vincent, New York City in September 2015, Rotary Club Makati West’s First “Albert del Rosario Award” (Tungo sa Makatarungang Pamumuhay) in August 2016, Outstanding Leadership in Diplomatic Service by Miriam College Department of International Studies and Philippine Tatler’s Diamond Award both in November 2016. On September 25, 2018, he was conferred the Honorary Degree of Doctor for Humanities by the Ateneo de Manila University for staunchly defending the sovereignty and territorial integrity of the country, raising the standards of economic diplomacy and proactively ensuring the safety and security of overseas Filipinos everywhere.

Ambassador del Rosario graduated from New York University with a Bachelor of Science Degree in Economics.

Mr. Pedro E. Roxas, 63 years old, has been a director of PLDT since March 1, 2001 and qualified as an independent director since 2002. He is the Chairman of the Audit Committee and serves as an independent member of the Risk, Governance and Nomination and Executive Compensation Committees of the Board of Directors of PLDT. He is the Chairman of Roxas Holdings, Inc. and Roxas and Company, Inc., and an independent director of Meralco, BDO Private Bank and CEMEX Holdings Phil. Inc., which are reporting or PSE-listed companies. He is also the Chairman, President or a director of companies or associations in the fields of agri-business, sugar manufacturing and real estate development including Brightnote Assets Corporation, Club Punta Fuego, Inc., and Philippine Sugar Millers Association, and a member of the Board of Trustees of Philippine Business for Social Progress and Fundacion Santiago (where he is also the President) and Roxas Foundation, Inc.. Mr. Roxas received his Bachelor of Science Degree in Business Administration from the University of Notre Dame, Indiana, U.S.A.

Ms. Marife B. Zamora, 66 years old, has been a director of PLDT since November 14, 2016. She is the Chairman of the Board of Willis Towers Watson Insurance Brokers, Inc., a member of the Board of Trustees of the Asian Institute of Management and ABS-CBN Foundation Inc. She is President of the UP Sigma Delta Phi Alumnae Association. She co-founded the Filipina CEO Circle, an organization of Filipina CEOs who rose through the ranks to lead large corporations in the private sector. She was Chairman of Convergys Philippines until December 2018, Managing Director for Asia Pacific, Europe, Middle East, Africa for Convergys Corporation, and served as the first Country Manager of Convergys Philippines, setting up its first contact center in 2003 and leading its growth as the country’s largest private employer.

Prior to this, Ms. Zamora served as Managing Director of Headstrong Phils. She was with IBM Philippines where she held a number of sales, marketing and management positions during her 18-year tenure with the company. She is the 3rd woman President and the 68th President of the Management Association of the Philippines. Honors conferred on Ms. Zamora include the Asia CEO Awards 2011 Global Filipino Executive of the Year, the 'Go Negosyo' Woman STARpreneur Award 2012, and the 100 Most Influential Filipino Women in the World 2013.

Ms. Zamora received her Bachelor of Arts Degree (major in Mathematics & History) from the College of the Holy Spirit and studied in the University of the Philippines and the Wharton School of the University of Pennsylvania.

Ms. Ma. Lourdes C. Rausa-Chan, 66 years old, has been a director of PLDT since March 29, 2011 and is a non-voting member of the Governance and Nomination Committee of the Board of Directors of PLDT. She has been serving as Corporate Secretary and Chief Governance Officer since November 1998 and March 2008, respectively, and was the Head of Corporate Affairs and Legal Services until November 30, 2018. She is a director and the Corporate Secretary of ePLDT, PLDT Global Investments Holdings, Inc., PLDT Communications and Energy Ventures, Inc., ACeS Philippines Cellular Satellite Corporation and Mabuhay Investments Corporation, and also serves as Corporate Secretary of several other subsidiaries of PLDT, and of PLDT-Smart Foundation Inc. and Philippine Disaster Resilience Foundation, Inc. Prior to joining PLDT, she was the Group Vice President for Legal Affairs of Metro Pacific Corporation and the Corporate Secretary of some of its subsidiaries. Ms. Rausa-Chan received her Bachelor of Arts Degree in Political Science and Bachelor of Laws Degree from the University of the Philippines.

Mr. Alfredo S. Panlilio, 56 years old, has been the PLDT Group Chief Revenue Officer since July 1, 2019. On August 8, 2019, he was appointed as the President and CEO of Smart. He has over 30 years of experience in the field of telecommunications and information systems. He is also the President and CEO of Digitel and DMPI, and the Chairman, President and CEO of Asia Netcom Philippines Corporation, Digitel Crossing, Inc., and Mabuhay Investments Corporation, the Chairman and President of Telesat, Inc. and Smart Broadband, Inc., President of Airborne Access Corporation, I-Contacts Corporation and Primeworld Digital Systems, Inc., and the Chairman of ePLDT, Inc., ePDS, Inc., IP Converge Data Services, Inc., IPC Rack It Data Center, Inc., Bonifacio Communications Corporation, PLDT Clark Telecom, Inc., PLDT Malaysia Sdn. Bhd. (currently winding up, to be completed end of 2020), PLDT Subic Telecom, Inc., Smart-NTT Multi-Media, Inc., ABM Global Solutions, Inc., Curo Tecknika, Inc., PLDT-Maratel, Inc., and PLDT-Philcom, Inc.

He also serves as Director and CEO of MVP Rewards and Loyalty Solutions, Inc., Director of ACeS Philippines Cellular Satellite Corporation, Asean Telecom Holdings Sdn. Bhd., PLDT Global Corporation, Chikka Holdings Limited, Connectivity Unlimited Resources Enterprises, Inc., Talas Data Intelligence, Inc. Wifun, Inc., and Vega Group of Companies, Independent Director of CEMEX Holdings Philippines, Inc., and Trustee of Asian Carrier Conference, Inc., Kapampangan Development Foundation, and Philpop Musicfest Foundation, Inc. He is the President of Samahang Basketbol ng Pilipinas, Inc., MVP Sports Foundation, Inc., the Treasurer of National Golf Association of the Philippines and Manila Golf Country Club, Inc., Philippine Basketball Association Governor for the Meralco Bolts, and a member of the Management Association of the Philippines.

Prior to joining PLDT and Smart, Mr. Panlilio was Meralco's Senior Vice President and Head of Customer Retail Services and Corporate Communications from September 2010 to June 2019 championing innovation and transformation for the customers. He served as Chairman of Radius Telecoms, Inc., e-Meralco Ventures Inc., Paragon Vertical Corporation, Powersource First Bulacan Solar, Inc. and Pure Meridian Hydropower Corporation. He was also a Vice Chairman of Aclara Meters Philippines, Inc., and director of CIS Bayad Center Inc., Corporate Information Solutions, Inc., Customer Frontline Solutions, Inc., Meralco Energy, Inc., MRAIL Inc., Miescor, Comstech Integration Alliance, Inc. and MSpectrum, Inc. He was a trustee of One Meralco Foundation, Inc. and Meralco Power Academy, and Associate Board Member of Semiconductor and Electronics Industries in the Philippines, Inc.

Mr. Panlilio was the 2013 CEO Excel Awardee of the International Association of Business Communicators Philippines. He was one of seven finalists in the Rising Star (individual) category of the PLATTS Global Energy Awards 2015 held in New York, and has received multiple local and international awards for customer management and business communication excellence. Mr. Panlilio holds a Bachelor of Science Degree in Business Administration (Computer Information Systems) from California State University-San Francisco State University and obtained his Master in Business Administration at J. L. Kellogg School of Management of Northwestern University/the Hongkong University of Science and Technology.

Ms. Anabelle L. Chua, 59 years old, Chief Financial Officer and Chief Risk Management Officer of the PLDT Group, previously served as the Chief Financial Officer of Smart from 2006 and Chief Financial Officer of Digitel Mobile from 2013 until May 2015. She holds directorships in several subsidiaries of PLDT, Smart, Digitel, as well as in Voyager Innovations and PayMaya Philippines. She is a member of the Board of Directors and Audit Committee of the Philippine Stock Exchange and Securities Clearing Corporation of the Philippines. She is also a member of the Board of Directors of Meralco, where she chairs the Finance Committee and is a member of the Audit, Risk and Nomination and Governance Committees. Further, Ms. Chua is a director of the Philippine Telecommunications Investment Corporation and a member of the Board of Trustees of the PLDT-Smart Foundation and PLDT Beneficial Trust Fund ("PLDT-BTF"), and a director of the companies owned by PLDT-BTF. Ms. Chua has over 30 years of experience in the areas of corporate finance, treasury, financial control and credit risk management and was a Vice President at Citibank, N.A. where she worked for 10 years prior to joining PLDT in 1998. She graduated magna cum laude from the University of the Philippines with a Bachelor of Science Degree in Business Administration and Accountancy.

Ms. Gina Marina P. Ordoñez, 58 years old, Head of People Group, concurrently leads HR Operations and Process Quality Management Groups. She joined the PLDT Group in 2016 under the Business Transformation Office (BTO) and later assumed headship role of Smart's People Group in May of the same year before moving back to BTO in 2018 to head Process Quality Management. She previously served as Vice President for Service Operations and Quality Management at Makati Medical Center from 2009-2015. She was a Service Quality Consultant of Security Bank from 2014-2016. Most of her professional life had been spent with Citibank where she served as Head of Customer Experience for Consumer Banking and held other leadership positions. Ms. Ordoñez is also a professional and registered Corporate Coach certified to run Coaching Clinics. She completed her Coach training from Coach U and is currently a member of the International Coach Federation and Asia Pacific Alliances of Coaches. She finished BS Environmental Planning in Maryknoll College and has strong preparation and education on leadership, customer service and operations management here and abroad.

Mr. Victorico P. Vargas, 68 years old, Business Transformation Office Head, is an Associate Director of First Pacific since January 2016, overseeing First Pacific Group businesses operating in the Philippines and its region, with particular focus on leading the Business Transformation of PLDT. Prior thereto, Mr. Vargas was the President and Chief Executive Officer of Maynilad Water Services, Inc. since August 2010. He joined PLDT in 2000 as its Human Resources Group Head and through his stay at PLDT got involved in managing the PLDT Business Transformation Office, Asset Protection and Management Group, and the PLDT International Carrier Business. He has worked in senior roles at Union Carbide, Pepsi Cola, Colgate Palmolive and Citibank, NA (both in Manila and in Southeast Asia). He is a director of Meralco, Smart, PLDT Subic Telecom, Inc. and PLDT Clark Telecom, Inc., President and Member of the Board of Trustees of the First Pacific Leadership Academy, Trustee of the MVP Sports Foundation, PLDT-Smart Foundation, Inc. and Ideaspace Foundation and President of the PhilPop Music Fest Foundation. Mr. Vargas was educated at Ateneo de Manila and University of Santo Tomas with a Bachelor of Science Degree in Psychology.

Atty. Marilyn A. Victorio-Aquino, 64 years old, Chief Legal Counsel, joined First Pacific Company Limited ("First Pacific") in 2012 as Assistant Director. She holds various positions in Philippine subsidiaries and affiliates of First Pacific and Metro Pacific Investments Corporation (an affiliate of First Pacific), including President of First Coconut Manufacturing Inc., and director of Philex Mining Corporation, PXP Energy Corporation and Lepanto Consolidated Mining Company, which are PSE-listed companies, Philex Gold Philippines, Inc., Silangan Mindanao Mining Company, Inc. and Maynilad Water Services, Inc.

Prior to joining First Pacific, Atty. Victorio-Aquino retired as a Senior Partner at SyCip Salazar Hernandez and Gatmaitan Law Offices (SyCipLaw). She joined SyCipLaw in 1980 and was admitted as Partner in 1989. Her practice areas were mining and natural resources, investments, mergers and acquisitions, construction and infrastructure, and project finance and securities, where she acted as legal counsel and represented local and foreign clients in respect of some of the largest projects and transactions in the Philippines.

Atty. Victorio-Aquino graduated cum laude (class salutatorian) from the University of the Philippines with a Bachelor of Laws Degree in 1980, placed second in the Philippine Bar Examinations and was admitted to the Philippine Bar in 1981. She obtained her Bachelor of Arts Degree from the University of Santo Tomas. She is a member of the International Pacific Bar Association, Women Lawyers Circle, Federacion Internacional de Abogadas, Philippine Bar Association and Integrated Bar of the Philippines.

Mr. Alejandro O. Caeg, 59 years old, Head of PLDT Smart Consumer Sales Group and a member of the Smart Management Committee. Currently he is also a director of PLDT Global Corporation and was its CEO from 2010 to 2017, likewise a director of MVP Rewards & Loyalty Solutions from 2019, and a director of Inspiro Philippines from 2018. He previously served as Head of Wireless Consumer Sales and Distribution of Smart from 2016 to 2017. Also as Head of International & Carrier Business from 2009 until 2016 and PLDT's representative to the ITW Global Leaders Forum as well as to the Pacific Telecommunications Council. He was Smart's representative to the Conexus Mobile Alliance (one of Asia's largest cellular roaming alliances), where he was also designated as its Deputy Chairman until 2012 and eventually as Conexus Chairman until 2014. Prior to joining PLDT in 2009, he was appointed by PT Smart Telecom Tbk (Indonesia) as its Chief Commercial Strategy Officer from July to December 2008 and as Chief Commercial Officer from 2006 to 2008. Since joining Smart in 1993, he has held various sales, marketing and customer experience-related positions including that of Group Head of Sales and Distribution (2003-2005), Group Head of Customer Care and National Wireless Centers (1998-2001) and Marketing Head of International Gateway Facilities and Local Exchange Carrier (1997-1998). He also served as CEO of Telecommunications Distributors Specialist, Inc. (TSI) in 2002 and as Chief Operations Adviser of I-Contacts Corporation (Smart's Call Center subsidiary) from 2001 to 2002. Mr. Caeg graduated with a Bachelor's Degree in AB Applied Economics and obtained MBA credits from De La Salle University Manila.

Mr. Juan Victor I. Hernandez, 46 years old, Head of Enterprise Business Group of PLDT and Smart, the segment that serves the small, medium, large and top tier enterprises of the Philippines, is concurrently the President & CEO of ePLDT, as well as its subsidiaries namely, AGS Inc., ePDS, Inc., and Curroteknika, Inc. He is also the President of Bonifacio Cable Corporation, director of PLDT Global Corporation and heads its Enterprise businesses, which has a presence in the United States, United Kingdom, Hong Kong, Singapore and Australia.

Mr. Hernandez is a trustee of IT and Business Processing Association of the Philippines (IBPAP), Chairman of the Board of Asian Carriers Conference Inc., director of ACASIA Communications Sdn Bhd, and Board Adviser of the Semiconductor and Electronics Industries in the Philippines Foundation, Inc. He obtained his Bachelor's Degree in

Agricultural Economics from the University of the Philippines and his Master's degree in Business Management from the Asian Institute of Management.

Mr. Menardo G. Jimenez, Jr., 56 years old, Head of Consumer Business – Home, joined PLDT in December 2001 and served in various capacities as Corporate Communications and Public Affairs Head, Retail Business Head, Human Resources Group Head and Fixed Line Business Transformation Office Head. He holds directorships in several subsidiaries of PLDT. Prior to joining PLDT, he had a stint at GMA Network, Inc., where he served as head of a creative services and network promotions. Mr. Jimenez received his AB Economics Degree from the University of the Philippines.

Ms. June Cheryl A. Cabal-Revilla, 46 years old, Group Controller is concurrently the Chief Sustainability Officer (CSO) of the PLDT Group and the Chief Financial Officer (CFO) of Smart, PLDT-Smart Foundation, Philippine Disaster Resilience Foundation (PDRF) and in a number of subsidiaries and affiliates of PLDT, Smart & ePLDT. She is also the Founding Chairman of Gabay Guro, President of The Outstanding Young Men (TOYM) Foundation, and an Appointed Member of the Financial Reporting Standards Council (FRSC) of the Philippines. Prior to joining PLDT in June 2000 as a Certified Public Accountant and an Executive Trainee in the Finance Group, she was a Senior Associate in the Business Audit and Advisory Group of SGV & Co. She received her Bachelor of Science Degree in Accountancy from De La Salle University and Master's Degree in Business Management Major in Finance from Asian Institute of Management (AIM) where she is an outstanding alumni and a Triple A awardee by the Federation of AIM Alumni Associations, Inc. (FAIM). She also finished her Executive Program in the Stanford Graduate School of Business. With her sterling achievements and advocacies, she received global recognitions here and abroad and frequently invited as speaker by several international organizations.

Mr. Leo I. Posadas, 53 years old, Treasurer of the PLDT Group and concurrent Treasury Head of PLDT and Smart, handles the treasury management and treasury operations of several companies under the PLDT Group. He is a director and Treasurer of PLDT Global Investments Holdings, a director and Vice President for Treasury of Mabuhay Investments Corporation, and the Treasurer of the Vega Telecom group. He is also the Treasurer of Smart, ePLDT, Digital Telecommunications, Digitel Mobile and several other subsidiaries of PLDT and Smart. Prior to joining PLDT in September 2000, he served as Treasury Manager of Total Petroleum Philippines, and as Manager for Foreign Exchange Management of San Miguel Corporation. Mr. Posadas received his Bachelor of Arts Degree in Economics and Bachelor of Science Degree in Commerce Major in Management of Financial Institutions from De La Salle University.

Below is a list of directorships in other private and public companies of the director named below. All directorships of our other director are included in their respective biographies in the preceding pages.

Name of Director	Names of Companies	
	Public	Private
Helen Y. Dee	EEl Corporation (Regular Director/Chairman)	A.T. Yuchengco, Inc. (Regular Director/Chairman)
	House of Investments (Regular Director/Chairman)	AY Foundation, Inc. (Regular Director/Chairman)
	Petro Energy Resources Corporation (Regular Director/Chairman)	AY Holdings, Inc. (Regular Director/Chairman)
	Rizal Commercial Banking Corporation (Regular Director/Chairman)	ET Yuchengco, Inc. (Regular Director/Chairman)
		Dee Yu Corporation (Regular Director/Chairman)
		GPL Holdings, Inc. (Regular Director/President)
		Hi-Eisai Pharmaceuticals, Inc. (Regular Director/Chairman)
		Honda Cars, Kaloocan (Regular Director)
		Honda Cars Philippines, Inc. (Regular Director)
		Hydee Management & Resource Corp. (Regular Director/Chairman)
		Isuzu Philippines, Inc. (Regular Director)
		La Funeraria Paz Sucat (Regular Director/Chairman)
		Landev Corp. (Regular Director/Chairman)
		Luis Miguel Foods (Regular Director)
		Luisita Industrial Park Corporation (Regular Director)
		Malayan Colleges Laguna, Inc. (Trustee)
		Malayan Colleges Mindanao (A. Mapua School) Inc. (Regular Director/Chairman)
		Malayan Educational Systems, Inc. (Regular Director/Chairman)
		Malayan Insurance Co. Inc. (Regular Director/Chairman)
		Malayan High School of Science, Inc (Regular Director/Chairman)
		Manila Memorial Park Cemetery, Inc. (Regular Director/Chairman)
		Mapua Information Technology Center, Inc. (Regular Director/Chairman)
		Mayahin Holdings Corporation (Regular Director/Chairman)
		MICO Equities, Inc. (Regular Director/Chairman)
		Mijo Holdings, Inc. (Regular Director/Chairman)
		Moira Management, Inc. (Regular Director/President)
		Pan Malayan Express, Inc. (Regular Director/Chairman)
		Pan Malayan Management and Investment Corporation (Regular Director/Chairman)
		Pan Malayan Realty Corporation (Regular Director/Chairman)
		Petrowind Energy, Inc. (Regular Director/Chairman)
		Philippine Business for Education, Inc. (Regular Director/Trustee)
		Philippine Integrated Advertising Agency, Inc. (Regular Director)
		Promotions Personalized Inc. (Regular Director/Chairman)
		RCBC Forex Brokers Corporation (Regular Director)
		RCBC Land, Inc. (Regular Director)
		RCBC Leasing & Finance Corp (Regular Director/Chairman)
		RCBC Realty Corporation (Regular Director/Chairman)
		Shayamala Corporation (Regular Director/Chairman)
		Silver Falcon Insurance Agency, Inc. (Regular Director/Chairman)
		Sunlife Grepa Financial, Inc. (Regular Director/Chairman)
		Tamcena Resources, Inc. (Regular Director/Chairman)
		Xamdu Motors, Inc. (Regular Director/Chairman)
		YGC Corporate Services, Inc. (Regular Director/Chairman)
	Y Realty, Inc. (Regular Director)	
	Yuchengco Center, Inc. (Regular Director/Chairman)	

Terms of Office

The directors of PLDT are elected each year to serve until the next annual meeting of stockholders and until their successors are elected and qualified, except in case of death, resignation, disqualification or removal from office. The term of office of all officers is coterminous with that of the Board of Directors that elected or appointed them.

Family Relationships

None of the directors/independent directors and officers of the Company or persons nominated to such positions has any family relationships up to the fourth civil degree either by consanguinity or affinity, except Mr. James L. Go (a director) and Ms. Anabelle L. Chua (Chief Financial Officer and Chief Risk Management Officer) who are relatives to the fourth civil degree by consanguinity, and Mr. Manuel V. Pangilinan (Chairman, President and CEO) and Ms. Gina Marina P. Ordoñez (People Group Head) who are relatives to the fourth civil degree by consanguinity.

Legal Proceedings

The Company is not aware, and none of the directors/independent directors and officers or persons nominated for election to such positions has informed the Company, of any of the following events that occurred during the past five (5) years and up to the date of this Information Statement: (a) any bankruptcy petition filed by or against any business of

which a director/independent director or officer or person nominated for election to any of such positions, was a general partner or executive officer either at the time of the bankruptcy or within two years prior to that time; (b) any conviction by final judgment in a criminal proceeding, domestic or foreign, or any criminal proceeding, domestic or foreign, pending against any director/independent director or officer or person nominated for election to any of such positions, except as noted below; (c) any order, judgment, or decree, not subsequently reversed, suspended or vacated, of any court of competent jurisdiction, domestic or foreign, permanently or temporarily enjoining, barring, suspending or otherwise limiting the involvement of any director/independent director or officer or person nominated for election to any of such positions in any type of business, securities, commodities or banking activities; and (d) any finding by a domestic or foreign court of competent jurisdiction (in a civil action), the Securities and Exchange Commission or comparable foreign body, or a domestic or foreign exchange or electronic marketplace or self-regulatory organization, that any director/independent director or officer or person nominated for election to any of such positions, has violated a securities or commodities law or regulation, and the judgment has not been reversed, suspended, or vacated.

The following is a description of the complaints in which our Chairman, Manuel V. Pangilinan, our directors Ray C. Espinosa, James L. Go, Artemio V. Panganiban, Pedro Roxas and Ambassador Albert F. del Rosario, and Chief Financial Officer, Ms. Anabelle L. Chua, are respondents:

1. Messrs. Manuel V. Pangilinan, Ray C. Espinosa, James L. Go, Artemio V. Panganiban, Pedro Roxas and Ms. Anabelle L. Chua and other members of the Board of Directors of Manila Electric Company (respectively the "Board" and "Meralco"), and the Commissioners of Energy Regulatory Board ("ERC") except Chairman Agnes Devanadera, are respondents in a Complaint-Affidavit dated December 5, 2017 filed by the National Association of Electricity Consumers for Reforms, Inc. ("NASECORE") with the Office of the Ombudsman (OMB) and docketed as OMB-C-C-18-002 (the "Complaint").

The Complaint charges the respondents with the crime of Syndicated Estafa under Section 1 of Presidential Decree No. 1689 ("PD 1689"), in relation to Article 315, par. 1(b) of the Revised Penal Code, for alleged misappropriation of the bill deposits made by customers of Meralco, and failure to accrue and credit interest on the said deposits.

As directed in the OMB's Order dated January 22, 2018, the members of the Board of Meralco (the "Private Respondents") timely filed their Counter-Affidavits on February 9, 2008.

In their Counter-Affidavits, the Private Respondents asserted that the case against them is without merit since the elements of Syndicated Estafa under PD 1689 and Article 315 paragraph 1(b) of the Revised Penal Code are not present. Private Respondents and Meralco cannot be considered as a syndicate. Neither are the elements of estafa present since the bill deposits are not received by Meralco or the Private Respondents in trust, on commission, or for administration, or with an obligation to return or make delivery of the exact same bills and coins. Nor was there any misappropriation or conversion of the bill deposits which caused damage to any person. Moreover, the bill deposits are fully accounted for in the audited financial statements and there are sufficient funds to refund the same, if necessary. There is likewise no conspiracy to commit a crime among the Private Respondents themselves, or the Private Respondents and the ERC Commissioners.

In a Resolution dated May 18, 2018, the Complaint was dismissed for insufficiency of evidence. The case was however referred to the Commission on Audit for the conduct of audit on the Bill Deposits collected by Meralco from the public consumers and to inform the OMB of Compliance thereof.

NASECORE elevated the case before the CA.

2. Messrs. Manuel V. Pangilinan, Ray C. Espinosa, James L. Go, Artemio V. Panganiban, Pedro Roxas and Ms. Anabelle L. Chua and other members of the Board of Directors and the President and CEO of Manila Electric Company, and the Commissioners of Energy Regulatory Board ("ERC") except Chairman Agnes Devanadera, are respondents in a Complaint-Affidavit dated January 22, 2018, filed by the NASECORE and Cellphone Owners and Users of the Philippines, Inc. ("COUP") with the OMB and docketed as OMB-C-C-18-0042 (the "Complaint").

The Complaint charges the respondents with the crime of Syndicated Estafa under Section 1 of Presidential Decree No. 1689 in relation to Paragraph 2(a) of Article 315 of the Revised Penal Code and violation of Section 3 (e) of Republic Act No. 3019 (Anti-Graft and Corrupt Practices Act) in connection with the investments made by Meralco in its subsidiaries and affiliates and in its joint ventures with other corporations for businesses which are not related to Meralco's electric distribution business.

The Complaint alleges that Meralco's investments, participations, business interests, and infusion of funds in other companies, either as parent corporation or as a joint venture, are violative of its legislative franchise (RA 9209) and the EPIRA Law (RA 9136). It further alleges that Meralco allegedly conspired with the four (4) ERC Commissioners in committing Syndicated Estafa and with violating Section 3(e) of Anti-Graft and Corrupt Practices Act, to make said prohibited investments, thereby resulting to over-charging and over-recoveries by Meralco against its customers.

As directed in the OMB's Order dated February 20, 2018, the members of the Board of Directors and the President and CEO of Meralco (the "Private Respondents") timely filed their Counter-Affidavits on March 12, 2018.

In their Counter-Affidavits, the Private Respondents strongly denied the commission of any wrongdoing as Meralco's investment activities are allowed by and fully compliant with all applicable laws rules and regulations, and do not impact negatively on its operations or customers. They argued that its legislative franchise (RA 9209) and the EPIRA Law (RA 9136) do not prohibit, restrict or bar Meralco from making investments in other companies, including generation companies.

Meralco is likewise not required (pursuant to Section 26 of EPIRA) to plow back up to 50% of the net income derived from such investments in other companies since Meralco's investments in generation companies and other subsidiaries or entities do not constitute related business undertakings that utilize Meralco's rate base assets. Meralco's investments in other companies are not sourced from its revenues, but rather, from its net profits and retained earnings, and the disposition and use of such profits by Meralco are not subject to regulation by the ERC or any other agency.

Considering the foregoing, the elements of the crime of Syndicated Estafa are not present. No fraud was committed against Meralco customers since Meralco and/or Private Respondents or any of them never committed any fraudulent act, or employed false pretenses or fraudulent means to the prejudice or detriment of any party. There is no fraud or swindling whatsoever, there is also no syndicate to speak of, and Private Respondents did not participate in or agree to any criminal design with the ERC Commissioners.

The case is still pending for resolution of the Ombudsman.

3. Ambassador Albert F. Del Rosario and other directors and officers of the former PDCP Bank ("PDCP"), and some officers of the Bangko Sentral ng Pilipinas ("BSP") and Development Bank of the Philippines ("DBP") (the "Respondents") were charged in a complaint docketed as I.S. No. 2004-631 filed by Chung Hing Wong/Unisteel/Unisco Metals, Inc. (the "Complainants") with the Department of Justice ("DOJ"), for alleged syndicated estafa, estafa thru falsification of documents, other deceits, malversation and robbery. In the complaint-affidavit, the Complainants alleged that the officers and directors of PDCP deceived the Complainants to secure a loan from PDCP through misrepresentation and with the sinister purpose of taking over the Complainants' corporation. The complaint was referred to the Ombudsman ("OMB") by the DOJ considering that some of the Respondents are public officers and the offenses charged were committed in the performance of their official functions.

In the OMB's Review and Recommendation dated November 28, 2008, the OMB approved the DOJ Resolution dated September 7, 2007 DISMISSING the complaint and referred the case back to the DOJ for appropriate action. The Complainants filed separate Motions for Reconsideration before the DOJ and OMB.

On December 16, 2009, the DOJ issued a Resolution denying the Complainants' Motion for Reconsideration for lack of merit. In response, the Complainants filed a Petition for Review with the Secretary of Justice on March 2, 2010. Mr. Del Rosario and the other Respondents filed their respective Comments to the petition. On October 9, 2014, the Secretary of Justice issued a Resolution denying the Petition for Review. In response, Complainants filed a Motion for Reconsideration which remains pending to date with the Office of the Secretary of Justice.

With respect to the Complainants' Motion for Reconsideration with the OMB, the latter issued an Order dated December 4, 2009 denying the same and affirming its Review and Recommendation of November 28, 2008. In response, the Complainants filed a Petition for Certiorari with the Court of Appeals ("CA"). In a Resolution dated July 26, 2010, the CA dismissed the petition for lack of jurisdiction. Likewise, the Complainants' Motion for Reconsideration was denied by the CA in a Resolution on January 10, 2011. Subsequently, the Complainants filed a Petition for Review with the Supreme Court ("SC") questioning the Decision of the CA. In a Resolution dated March 28, 2011, the SC denied the Complainants' Petition for Review for failure to show any reversible error in the challenged Decision of the CA. The Complainants filed a Motion for Clarification. In a Resolution dated August 24, 2011, the SC treated the motion as a Motion for Reconsideration of the dismissal of the Petition and denied the same. The said Resolution of the SC became FINAL AND EXECUTORY based on the Entry of Judgment dated October 26, 2011. The Complainants however still filed a Motion for Clarification and Motion to Refer Case to the Supreme Court en Banc. In a Resolution dated October 10, 2012, the SC ordered the said motion expunged from the records of the case as the Petition has already been denied with FINALITY and an ENTRY OF JUDGMENT and Letter of Transmittal already sent to the CA as early as October 26, 2011.

Audit, Governance and Nomination, Executive Compensation, Technology Strategy, and Risk Committees

Our Board of Directors is authorized under the By-Laws to create committees, as it may deem necessary. We currently have five Board committees, namely, the Audit, Governance and Nomination, Executive Compensation, Technology Strategy, and Risk Committees, the purpose of which is to assist our Board of Directors. Each of these committees has a Board-approved written charter that provides for such committee's composition, membership qualifications, functions and responsibilities, conduct of meetings, and reporting procedure to the Board of Directors.

Audit Committee

Our Audit Committee, or AC, is composed of three members, all of whom are independent directors, and four advisors. The AC members are Retired Supreme Court Chief Justice Artemio V. Panganiban, Mr. Bernido H. Liu and Mr. Pedro E. Roxas, who is the chairman of this committee. The four AC advisors are Mr. Junichi Igarashi and Mr. James L. Go, who are non-independent members of our Board of Directors, Mr. Roberto R. Romulo, a member of our Advisory Board/Committee, and Ms. Corazon de la Paz-Bernardo, a former member of our Board of Directors. All of the members of our AC are financially literate and Ms. Corazon S. de la Paz-Bernardo has expertise in accounting and financial management. She was a former Chairman and Senior Partner of Joaquin Cunanan & Company, now Isla Lipana & Co., a member firm of Pricewaterhouse Coopers (PwC).

As provided for in the AC charter, the purpose of the AC is to assist our Board of Directors in fulfilling its oversight responsibility for: (i) PLDT's accounting and financial reporting principles and policies, and system of internal controls, including the integrity of PLDT's financial statements and the independent audit thereof; (ii) PLDT's compliance with legal and regulatory requirements; and (iii) the performance of the internal audit organization and the external auditors.

To carry its direct responsibility for the appointment, setting of compensation, retention and removal of the external auditors, the AC has the following duties and powers:

- review and evaluate the qualifications, performance and independence of the external auditors and its lead audit partner;
- select and appoint the external auditors and to remove or replace the external auditor;
- review and approve in consultation with the head of the internal audit organization and the head of the finance organization all audit and non-audit services to be performed by the external auditors and the fees to be paid to the external auditor for such services, and ensure disclosure of any allowed non-audit services in PLDT's annual report;
- periodically review fees for non-audit services paid to the external auditor and disallow non-audit services that will conflict with the external auditor's duties to PLDT or pose a threat to the external auditor's independence;
- ensure that the external auditor prepares and delivers annually a statement as to its independence, discuss with the external auditor any relationships or services disclosed in such statement that may impact the objectivity, independence or quality of services of said external auditor and take appropriate action in response to such statement to satisfy itself of the external auditor's independence;
- review the external auditor's internal quality-control procedures based on the external auditor's statement submitted at least annually, any material issues raised by recent internal quality-control review or peer review of the external auditor, or by any inquiry or investigation by governmental or professional authorities within the preceding five years, regarding one or more independent audits carried out by the external auditor and steps taken to deal with any such issues;
- ensure that the external auditor or its lead audit partner having the primary responsibility for the audit of PLDT's financial accounts is rotated at least once every five years or such shorter or longer period provided under applicable laws and regulations;
- advise the external auditor that it is expected to provide the AC a timely analysis of significant/critical financial reporting issues and practices;
- obtain assurance from the external auditors that the audit was conducted in a manner consistent with certain procedures to be followed in any audit of financial statements required under applicable rules; and
- resolve disagreements between management and the external auditor regarding financial reporting.

The AC has the authority to retain or obtain advice from special counsel or other experts or consultants in the discharge of their responsibilities without the need for board approval.

Audit Committee Report

Further to our compliance with applicable corporate governance laws and rules, we confirm for 2019 that:

- Each voting member of the Audit Committee is an independent director as determined by the Board of Directors;
- We had two regular meetings and six joint meetings with the Audit Committees of Smart Communications, Inc. (Smart) and Digital Telecommunications Phils., Inc. (Digitel) during the year;
- We have reviewed and approved for retention the Audit Committee Charter, amended and adopted by the Board on January 22, 2018, until the next review in 2020;

- Based on a review of SGV & Co.'s performance and qualifications, including consideration of Management's recommendation, we approved the appointment of SGV & Co. as the PLDT Group's independent auditor;
- We have discussed with the PLDT's Internal Audit Group the annual plan for their regular audits, and the results of their examinations;
- We have discussed with SGV & Co. the overall scope and plan for their integrated audit of the PLDT and Subsidiaries', or PLDT Group's, financial statements and internal controls over external financial reporting, and the results of their examinations;
- We have reviewed and approved all audit and non-audit services provided by SGV & Co. to the PLDT Group, and the related fees for such services, and concluded that the non-audit fees are not significant to impair their independence;
- We have discussed with SGV & Co. the matters required to be discussed by the prevailing applicable Auditing Standard, and we have received written disclosures and the letter from SGV & Co. as required by the prevailing applicable Independence Standards (Statement as to Independence) and have discussed with SGV & Co. its independence from the PLDT Group and the PLDT Group's Management;
- We were apprised of updates on enterprise risk management and major risk exposures through our attendance to meetings of the Risk Committee, from which we are also members.
- We have discussed with the Chief Legal Counsel the significant legal matters and updates on the Company's compliance with regulations and applicable laws.
- In the performance of our oversight responsibilities, we have reviewed and discussed the unaudited consolidated quarterly financial statements and reports in the first three quarters of 2019 and the audited consolidated financial statements of the PLDT Group as of and for the year ended December 31, 2019 with the PLDT Group's Management, which has the primary responsibility for the financial statements, and with SGV & Co., the PLDT Group's independent auditor, who is responsible for expressing an opinion on the conformity of the PLDT Group's audited financial statements with Philippine Financial Reporting Standards (PFRS); and
- Based on the reviews and discussions referred to above, in reliance on the PLDT Group's Management and SGV & Co. and subject to the limitations of our role, we recommended to the Board of Directors and the Board has approved, the inclusion of the PLDT Group's audited financial statements as of and for the year ended December 31, 2019 in the PLDT Group's Annual Report to the Stockholders and to the Philippine Securities and Exchange Commission (Phil. SEC) on Form 17-A.

Governance and Nomination Committee

Our Governance and Nomination Committee, or GNC, is composed of five voting members, all of whom are regular members of our Board of Directors and two are non-voting members. Three of the voting members are independent directors namely, Retired Supreme Court Chief Justice Artemio V. Panganiban, Mr. Pedro E. Roxas and Mr. Bernido H. Liu, and two are non-independent directors namely, Mr. Junichi Igarashi and Mr. Manuel V. Pangilinan who is the chairman of this committee. The two non-voting members are Atty. Ma. Lourdes C. Rausa-Chan and effective March 21, 2019, Ms. Gina Marina P. Ordoñez.

The principal functions and responsibilities of our GNC are to:

1. Establish the Company's corporate governance framework, principles and policies and oversee their implementation and assist the Board in performing its oversight function on the Company's fulfillment of its environmental, social and governance responsibilities and corporate social responsibilities;
2. Develop and implement the Board's performance evaluation process;
3. Review and evaluate the qualifications of the persons nominated to the Board and to other positions requiring appointment by the Board;
4. Identify persons qualified to become members of the Board and/or the Board Committees; and
5. Make an assessment of the effectiveness of the Company's nomination and selection process for the Board and Board Committees.

Executive Compensation Committee

Our Executive Compensation Committee, or ECC, is composed of five voting members, all of whom are regular members of our Board of Directors, and one non-voting member. Three of the voting members are independent directors, namely Retired Supreme Court Chief Justice Artemio V. Panganiban, Mr. Pedro E. Roxas and Mr. Bernido H. Liu, and two are non-independent directors, namely, Mr. Junichi Igarashi and Mr. Manuel V. Pangilinan, who is chairman of this committee. The non-voting member effective March 21, 2019 is Ms. Gina Marina P. Ordoñez.

The principal functions and responsibilities of our ECC are to:

1. Oversee the development of a compensation philosophy or policy consistent with the strategy, culture and control environment of PLDT;
2. Oversee the development and administration of PLDT's executive compensation programs, including long term incentive plans and equity-based plans for officers and executives;
3. Oversee the development and administration of the Company's performance management framework to monitor and assess the performance of Management;
4. Review the succession plan for officers, including the CEO; and
5. Oversee the development and implementation of professional development programs for officers.

Technology Strategy Committee

Our Technology Strategy Committee, or TSC, is composed of five voting members and two non-voting members. The five voting members are non-independent directors Mr. Manuel V. Pangilinan, who is the chairman of the committee, former Ambassador Albert F. del Rosario, Atty. Ray C. Espinosa, Mr. James L. Go, and Mr. Junichi Igarashi, and the two non-voting members are Mr. Oscar S. Reyes and Mr. Orlando B. Veja, who are members of our Advisory Board/Committee.

The principal functions and responsibilities of our TSC are to assist and enable the Board to:

1. Review and approve the strategic vision for the role of technology in PLDT's overall business strategy, including the technology strategy and roadmap of PLDT;
2. Fulfill its oversight responsibilities for PLDT's effective execution of its technology-related strategies; and
3. Ensure the optimized use and contribution of technology to PLDT's business and strategic objectives and growth targets.

Risk Committee

Our risk committee, or RC, was created by the Board of Directors on June 9, 2015. The RC is composed of five voting members, all of whom are regular members of our Board of Directors. Three of the voting members are independent directors, namely, Mr. Pedro E. Roxas, Mr. Bernido H. Liu and Retired Supreme Court Chief Justice Artemio V. Panganiban, who is the chairman of this committee, and two are non-executive non-independent directors, namely, Mr. Junichi Igarashi and Mr. James L. Go.

The primary purpose of the Committee is to assist the Board in fulfilling its governance functions relating to risk management, which include the functions to:

1. Oversee management's adoption and implementation of a system for identifying, assessing, monitoring and managing key risk areas;
2. Review management's reports on the Company's major risk exposures; and
3. Review management's plans and actions to minimize, control or manage the impact of such risks.

Advisory Committee

Our Advisory Board/Committee is composed of Mr. Roberto R. Romulo, Mr. Benny S. Santoso, Mr. Orlando B. Veja, Mr. Christopher H. Young and Mr. Oscar S. Reyes. The Advisory Board/Committee provides guidance and suggestions, as necessary, on matters deliberated upon during Board meetings.

Item 10. Executive Compensation and Stock Option Plan

Executive Compensation

The following table is the list of the directors and executive officers, including the CEO, of PLDT as at February 29, 2020:

Name	Position(s)
Manuel V. Pangilinan	Director, Chairman of the Board, President and CEO
Manel L. Argel, Jr. ⁽¹⁾	Director
Helen Y. Dee	Director
Ray C. Espinosa	Director
James L. Go	Director
Shigeki Hayashi	Director
Junichi Igarashi	Director
Aurora C. Ignacio ⁽²⁾	Director
Bernido H. Liu	Independent Director
Retired Supreme Court Chief Justice Artemio V. Panganiban	Independent Director
Ma. Lourdes C. Rausa-Chan	Director, Corporate Secretary and Chief Governance Officer
Albert F. del Rosario	Director
Pedro E. Roxas	Independent Director
Marife B. Zamora	Director
Alfredo S. Panlilio	Chief Revenue Officer
Anabelle L. Chua	Senior Vice President, Chief Financial Officer and Chief Risk Management Officer
Gina Marina P. Ordoñez	Senior Vice President, Chief People Officer
Victorico P. Vargas	Business Transformation Office Head
Marilyn A. Victorio-Aquino	Senior Vice President, Chief Legal Counsel
Alejandro O. Caeg	Senior Vice President, Consumer Sales Head
Juan Victor I. Hernandez	Senior Vice President, Enterprise Business Head
Menardo G. Jimenez, Jr.	Senior Vice President, Consumer Business Home Head
June Cheryl A. Cabal-Revilla	Senior Vice President, PLDT Group Controller and Chief Sustainability Officer
Leo I. Posadas	First Vice President and Treasurer

⁽¹⁾ Elected by the Board of Directors as representative director of Social Security System in a meeting held on January 28, 2020.

⁽²⁾ Resigned as representative director of Social Security System effective January 28, 2020.

The following table below sets forth the aggregate amount of compensation paid in 2019 and 2018 and estimated amount of compensation expected to be paid in 2020 to: (1) the President and CEO and four most highly compensated officers of PLDT, as a group, namely, Anabelle L. Chua, Marilyn V. Aquino, Oscar A. Reyes, Jr., who was separated from service effective February 28, 2020, and Menardo G. Jimenez, Jr.; and (2) all other executive officers, other officers and directors, as a group.

	2020	2019	2018
	Estimate	Actual	
	(in millions)		
President and CEO and four most highly compensated executive officers:			
Salary ⁽¹⁾	Php132	Php115	Php112
Bonus ⁽²⁾	15	14	17
Other compensation ⁽³⁾	134	95	119
	281	224	248
All other executive officers, other officers and directors as a group (excluding the President and CEO and four most highly compensated executive officers):			
Salary ⁽¹⁾	425	409	310
Bonus ⁽²⁾	48	55	44
Other compensation ⁽³⁾	379	440	227
	Php852	Php904	Php581

⁽¹⁾ Basic monthly salary.

⁽²⁾ Includes longevity pay, mid-year bonus, 13th month and Christmas bonus.

⁽³⁾ Includes Variable Pay/Short-term Incentive Plan, or STIP, and other payments. Variable Pay/STIP is based on an annual incentive system that encourages and rewards both individual and group/team performance and is tied to the achievement of Corporate/Unit/Customer Satisfaction Objectives. It covers regular officers and executives of the Company and is based on a percentage of their Guaranteed Annual Cash Compensation. Included in the figure for 2018 and 2019 is the amount of award in the form of PLDT common shares under the Transformation Incentive Plan, or TIP.

Each of the directors of the Company is entitled to a director's fee of Php250 thousand for each meeting of the Board of Directors attended. In addition, the directors who serve in the committees of the Board of Directors, namely, the Audit, Governance and Nomination, Executive Compensation, Technology Strategy, and Risk Committees, are each entitled to a fee of Php125 thousand for each committee meeting attended.

Except for the fees mentioned above, the directors are not compensated, directly or indirectly, for their services as such directors. The aggregate amount of *per diems* paid to the directors for their attendance in Board and Board Committee meetings is included in other compensation in the above table. The total amount of *per diems* paid in 2019 and 2018 were approximately Php68 million and Php63 million, respectively. The total amount of *per diems* estimated to be paid in 2020 is approximately Php77 million.

There are no agreements between PLDT Group and any of its key management personnel providing for benefits upon termination of employment, except for such benefits to which they may be entitled under PLDT Group's retirement and incentive plans.

Transformation Incentive Plan

As noted above, we have established the TIP to provide incentive compensation to key officers, executives and other eligible participants who are consistent performers and contributors to the Company's strategic and financial goals.

See Note 3 – Management's Use of Judgments, Estimates and Assumptions, Note 5 – Income and Expenses, Note 24 – Accrued and Other Current Liabilities and Note 26 – Pension and Employee Benefits to the accompanying audited consolidated financial statements in Item 7. "Financial Statements" for related discussion.

Item 11. Security Ownership of Certain Beneficial Owners, Directors and Executive Officers

Security Ownership of Certain Record and Beneficial Owners

The following table sets forth the record owners and, to the best knowledge of the Board of Directors and Management of the Company, the beneficial owners of more than five percent of the Company's outstanding shares of Common Stock and Voting Preferred Stock, the number of shares owned by, and percentage of shareholdings of, each of them, as at February 29, 2020.

Title of Class	Name and Address of Record Owner and Relationship With Issuer	Citizenship	Name of Beneficial Owner and Relationship with Record Owner	Number of Shares Held	Percentage of Common Stock	Percentage of Voting Stock
Common	Philippine Telecommunications Investment Corporation ⁽¹⁾ Telecom Plaza Bldg. 316 Sen Gil. Puyat Avenue Makati City Major Stockholder	Philippine Corporation	Same as Record Owner	26,034,263 ⁽²⁾	12.05	7.11
Common	Metro Pacific Resources, Inc. ⁽³⁾ c/o Corporate Secretary 18 th Floor, Liberty Center, 104 H. V. Dela Costa Street Salcedo Village, Makati City Major Stockholder	Philippine Corporation	Same as Record Owner	21,556,676 ⁽²⁾	9.98	5.89
Common	NTT DOCOMO, INC. ⁽⁴⁾ 11-1 Nagata-Cho, 2-Chome Chiyoda Ku, Tokyo 100-6150, Japan Major Stockholder	Japanese Corporation	See Footnote 7	22,796,902 ⁽⁵⁾	10.55	6.23
Common	NTT Communications Corporation ⁽⁶⁾ Otemachi Place West Tower 33F 2-3-1 Otemachi, Chiyoda-ku Tokyo 100-8019, Japan Major Stockholder	Japanese Corporation	See Footnote 7	12,633,487	5.85	3.45
Common	JG Summit Group ⁽⁸⁾ 43/F Robinsons Equitable Tower ADB Avenue corner Poveda Road, Ortigas Center, Pasig City Major Stockholder	Philippine Corporation	See Footnote 8	24,342,455	11.27	6.65
Common	Social Security System ⁽⁹⁾ SSS Building East Avenue, Quezon City Major Stockholder	Philippine Corporation	See Footnote 9	11,157,534	5.16	3.05
Common	PCD Nominee Corporation ⁽¹⁰⁾ 29/F BDO Equitable Tower 8751 Ayala Ave. cor. Paseo de Roxas St., Makati City 1226 Major Stockholder	Philippine Corporation	See Footnote 9	78,888,144	36.51	21.55
Common	J.P. Morgan Hongkong Nominees Limited ⁽¹¹⁾ (various accounts) c/o HSBC Securities Services 7 th HSBC Centre 3058 5 th Ave. West BGC, Taguig City Major Stockholder	Hong Kong Corporation	See Footnote 10	15,801,619	7.31	4.32
Voting Preferred	BTF Holdings, Inc. ⁽¹²⁾ Ramon Cojuangco Building, Makati Avenue, Makati City	Philippine Corporation	Same as Record Owner	150,000,000	–	40.98

⁽¹⁾ Based on a resolution adopted by the Board of Directors of Philippine Telecommunications Investment Corporation, or PTIC, the Chairman of the Board of PTIC, Mr. Manuel V. Pangilinan, has the continuing authority to represent PTIC at any and all meetings of the stockholders of a corporation in which PTIC owns of record or beneficially any shares of stock or other voting security, and to sign and deliver, in favor of any person he may deem fit, a proxy or other power of attorney, with full power of delegation and substitution, authorizing his designated proxy or attorney-in-fact to vote any and all shares of stock and other voting securities owned of record or beneficially by PTIC at any and all meetings of the stockholders of the corporation issuing such shares of stock or voting securities.

⁽²⁾ In addition to the 26,034,263 and 21,556,676 common shares owned of record respectively by PTIC and Metro Pacific Resources, Inc., or MPRI, both of which are Philippine affiliates of First Pacific Company Limited, or First Pacific, 7,653,703 common shares representing approximately 3.54% of the outstanding common stock of PLDT are owned by a non-Philippine wholly-owned subsidiary of First Pacific and registered under the name of PCD Nominee Corporation. The common shares owned by PTIC, MPRI and the non-Philippine wholly-owned subsidiary of First Pacific (referred to herein as "First Pacific Group") collectively represents 25.57% of the outstanding common stock of PLDT as of February 29, 2020.

⁽³⁾ Based on a resolution adopted by the Board of Directors of MPRI, Mr. Manuel V. Pangilinan has been appointed as proxy or duly authorized representative of MPRI to represent and vote the PLDT shares of common stock of MPRI in the Annual Meeting.

⁽⁴⁾ Based on publicly available information, NTT DOCOMO, INC., ("NTT DOCOMO"), is a majority-owned and publicly traded subsidiary of Nippon Telegraph and Telephone Corporation ("NTT"). Based on a certification signed by a duly authorized officer of NTT DOCOMO, Mr. Keisuke Yoshizawa or Mr. Nobutaka Kurata is authorized to execute for and on behalf of NTT DOCOMO, endorsements, transfers and other matters relating to the PLDT shares of common stock held by NTT DOCOMO.

- ⁽⁵⁾ In addition to the 22,796,902 common shares owned on record by NTT DOCOMO, NTT DOCOMO also owns 8,533,253 ADSs whose underlying common shares represent approximately 3.95% of the outstanding common stock of PLDT. The common shares and the underlying common shares of the ADS owned by NTT DOCOMO collectively represents 14.50% of the outstanding common stock of PLDT as of February 29, 2020.
- ⁽⁶⁾ Based on publicly available information, NTT Communications Corporation (“NTT Communications”), is a wholly-owned subsidiary of NTT. Based on a certification signed by a duly authorized officer of NTT Communications, Mr. Shuji Inaba or Mr. Satoshi Watanabe is authorized to execute for and on behalf of NTT Communications, endorsements, transfers and other matters relating to the PLDT shares of common stock held by NTT Communications.
- ⁽⁷⁾ In publicly available reports filed by NTT Communications and NTT DOCOMO, it is stated that because of NTT’s ownership of all the outstanding capital stock of NTT Communications and a majority of the common stock of NTT DOCOMO, NTT, NTT Communications and NTT DOCOMO may be considered to constitute a “group” within the meaning of Rule 18.1.5.C of the Amended Implementing Rules and Regulations of The Securities Regulation Code. Therefore, each of them may be deemed to have beneficial ownership of the 43,963,642 shares in aggregate held by NTT Communications and NTT DOCOMO, which collectively represents 20.35% of the outstanding common stock of PLDT as of February 29, 2020.
- ⁽⁸⁾ The shareholders comprising the JG Summit Group are JG Summit Holdings, Inc. (“JGS”) which owns 24,255,732 shares and JG Digital Equity Ventures, Inc. (formerly Express Holdings, Inc.) which owns 86,723 shares or a total of 24,342,455, representing 11.27% of the outstanding common stock of PLDT as of February 29, 2020. Based on a certification signed by a duly authorized officer of JGS, under the By-Laws of JGS, each of the Chairman of JGS Mr. James L. Go and President of JGS Mr. Lance Y. Gokongwei, is authorized to vote the 24,255,732 common shares of PLDT owned by JGS and to appoint and/or sign proxies in behalf of JGS in connection with the Annual Meeting. Based on Section 2(d) of Article IV of the By-Laws of JG Digital Equity Ventures, Inc. (JGDEV), the Chairman, Mr. Lance Y. Gokongwei has the power to vote any and all shares of any corporation in which JGDEV owns shares and to appoint and/or sign proxies in behalf of JGDEV.
- ⁽⁹⁾ In addition to the 9,613,281 shares owned on record by the SSS, SSS also beneficially owned 1,544,253 shares of PLDT common stock held of record by PCD as at February 29, 2020. The total beneficial shareholdings of SSS is 11,157,534 shares of PLDT common stock representing 5.16% of the outstanding common stock of PLDT as at February 29, 2020. Based on a resolution adopted by the Board of Directors of the SSS, Mr. Manuel L. Alger, Jr., as Commissioner of the SSS, has been authorized to represent and vote the shares of PLDT common stock of SSS in the Annual Meeting of stockholders of PLDT.
- ⁽¹⁰⁾ PCD Nominee Corporation, or PCD, is the registered owner of shares held by participants in the Philippine Depository and Trust Co., or PDTC, a private company organized to implement an automated book entry system of handling securities transactions in the Philippines. Under the PDTC procedures, when an issuer of a PDTC-eligible issue will hold a stockholders’ meeting, the PDTC will execute a pro-forma proxy in favor of its participants for the total number of shares in their respective principal securities account as well as for the total number of shares in their client securities account. For the shares held in the principal securities account, the participant concerned is appointed as proxy with full voting rights and powers as registered owner of such shares. For the shares held in the client securities account, the participant concerned is appointed as proxy, with the obligation to constitute a sub-proxy in favor of its clients with full voting and other rights for the number of shares beneficially owned by such clients.
- Based on available information, none of the owners of the PLDT common shares registered under the name of PCD, owned more than 5% of PLDT’s outstanding common stock as of February 29, 2020, except for The Hongkong and Shanghai Banking Corporation Ltd. Clients Account and Deutsche Bank Manila Clients Account, which owned approximately 9.77% and 5.80%, respectively, of PLDT’s outstanding common stock as of such date. PLDT has no knowledge if any beneficial owner of the shares under The Hongkong and Shanghai Banking Corporation Ltd Clients Account and Deutsche Bank Manila Clients Account owned more than 5% of PLDT’s outstanding common stock as of February 29, 2020.
- This account also includes 7,653,703 PLDT common shares beneficially owned by a non-Philippine wholly-owned subsidiary of First Pacific and 7,046,979 PLDT common shares beneficially owned by JG Summit Holdings, Inc.
- ⁽¹¹⁾ J.P. Morgan Hong Kong Nominees Limited (formerly J.P. Morgan Asset Holdings (HK) Limited) holds shares as nominee of J.P. Morgan Chase Bank, successor depository under the Common Stock Deposit Agreement, dated October 14, 1994, as amended on February 10, 2003, between J.P. Morgan Chase Bank and the holders of ADRs, evidencing ADSs, representing shares of common stock of PLDT (the “Deposit Agreement”). Under the Deposit Agreement, if the depository does not receive voting instructions from a holder of ADRs, such holder will be deemed to have instructed the depository to provide a discretionary proxy to a person designated by PLDT for the purpose of exercising the voting rights pertaining to the shares of common stock underlying the ADS of such holder of ADRs, except that no discretionary proxy will be given with respect to any matter as to which substantial opposition exists or which materially and adversely affects the rights of the holders of such ADRs.
- This account also includes 8,533,253 PLDT common shares underlying ADS beneficially owned by NTT DOCOMO.
- ⁽¹²⁾ A wholly-owned company of the Board of Trustees for the Account of the Beneficial Trust Fund Created Pursuant to the Benefit Plan of PLDT Co. Based on a resolution adopted by the Board of Directors of BTF Holdings, Inc., the Chairman of the Board of PLDT has been appointed as proxy or duly authorized representative of BTF Holdings, Inc. to represent and vote the PLDT shares of voting preferred stock of BTF Holdings, Inc. in the Annual Meeting.

Except as stated above and in the related footnotes, the Board of Directors and Management of the Company have no knowledge of any other person who, as at February 29, 2020, was directly or indirectly the beneficial owner of, or who has voting power with respect to, shares comprising more than five percent of the Company’s outstanding Common Stock and Voting Preferred Stock as of February 29, 2020.

As at February 29, 2020, approximately 73.24% of the outstanding voting stock and 85.29% of the outstanding capital stock of PLDT were owned by Philippine persons.

As a result of their respective stockholdings, the FP Parties and/or NTT Communications and/or NTT DOCOMO and/or BTFHI are able to influence our actions and corporate governance, including (i) elections of our directors; and (ii) approval of major corporate actions, which require the vote of holders of common and voting preferred stocks.

Additionally, the FP Parties, NTT Communications, NTT DOCOMO and PLDT entered into a Cooperation Agreement, dated January 31, 2006, pursuant to which, among other things, certain rights of NTT Communications under the Stock Purchase and Strategic Investment Agreement dated September 28, 1999, or the Strategic Agreement, and the Shareholders Agreement dated March 24, 2000, or the Shareholders Agreement, were extended to NTT DOCOMO. As a result of the Cooperation Agreement, NTT Communications and NTT DOCOMO, in coordination with each other, have contractual rights relating to a number of major decisions and transactions that PLDT could make or enter into.

Specifically, PLDT may not take any of the following actions described without the approval of NTT DOCOMO and NTT Communications, acting in coordination with each other (however, NTT DOCOMO and NTT Communications may not withhold their consent to such actions in circumstances where PLDT proposes to invest in a business that competes with Nippon Telegraph and Telephone Corporation and its subsidiaries and where the Board of Directors has among other things, approved the transaction):

- capital expenditures in excess of US\$50 million;
- any investments, if the aggregate amount of all investments for the previous 12 months is greater than US\$25 million in the case of all investments to any existing investees and US\$100 million in the case of all investments to any new or existing investees, determined on a rolling monthly basis; and
- any investments in a specific investee, if the cumulative value of all investments made by us in that investee is greater than US\$10 million in the case of an existing investee and US\$50 million in the case of a new investee.

PLDT also may not issue common stock or stock that is convertible into common stock except where NTT Communications and NTT DOCOMO have first been offered the opportunity to purchase their pro rata portion of PLDT’s shares of common stock.

PLDT is also aware that each of NTT Communications and NTT DOCOMO has agreed (pursuant to the Shareholders Agreement in the case of NTT Communications and pursuant to the Cooperation Agreement in the case of NTT DOCOMO) to use its best efforts to procure that PLDT not take the following actions without the consent of First Pacific and certain of its affiliates, as well as other parties bound by the provisions of the Shareholders Agreement:

- new business activities other than those we currently engage in;
- merger or consolidation;
- winding up or liquidation of PLDT; and
- applying to a court to order a meeting of creditors or to sanction any compromise or arrangement between creditors and shareholders of PLDT.

As PLDT is not a party to the Shareholders Agreement, these contractual rights held by NTT Communications, NTT DOCOMO, First Pacific and certain of First Pacific's affiliates are not directly enforceable against PLDT.

Pursuant to amendments effected by the Cooperation Agreement to the Stock Purchase and Strategic Investment Agreement and the Shareholders Agreement, upon NTT Communications and NTT DOCOMO and their respective subsidiaries owning in the aggregate 20% or more of PLDT's shares of common stock and for as long as they continue to own in the aggregate at least 17.5% of PLDT's shares of common stock then outstanding, NTT DOCOMO has additional rights under the Stock Purchase and Strategic Investment Agreement and Shareholders Agreement, including that:

- NTT DOCOMO is entitled to nominate one additional NTT DOCOMO nominee to the board of directors of each of PLDT and Smart;
- PLDT must consult NTT DOCOMO no later than 30 days prior to the first submission to the board of PLDT or certain of its committees of any proposal of investment in an entity that would primarily engage in a business that would be in direct competition or substantially the same business opportunities, customer base, products or services with business carried on by NTT DOCOMO, or which NTT DOCOMO has announced publicly an intention to carry on;
- PLDT must procure that Smart does not cease to carry on its business, dispose of all of its assets, issue common shares, merge or consolidate, or effect winding up or liquidation without PLDT first consulting with NTT DOCOMO no later than 30 days prior to the first submission to the board of PLDT or Smart, or certain of its committees; and
- PLDT must first consult with NTT DOCOMO no later than 30 days prior to the first submission to the board of PLDT or certain of its committees for the approval of any transfer of Smart's common capital stock by any member of the PLDT Group to any person who is not a member of the PLDT Group.

Security Ownership of Directors and Executive Officers

The following are the number of PLDT common shares owned of record and/or beneficially by the directors/independent directors, CEO and other executive officers of PLDT as at February 29, 2020:

Name of Record and Address	Citizenship	Title of Class	Number of shares	Amount of Holdings	Percentage of Class
				(Based on par value)	
Manuel V. Pangilinan Chairman of the Board and President and CEO	Filipino	Common	267,611 ⁽¹⁾	Php1,338,055	0.123862
Manuel L. Argel, Jr. ⁽²⁾ Director	Filipino	Common	1	5	0.000000
Helen Y. Dee Director	Filipino	Common	25,080 ⁽³⁾	125,400	0.011608
Ray C. Espinosa Director	Filipino	Common	21,743 ⁽¹⁾	108,715	0.010064
James L. Go Director	Filipino	Common	776,154 ⁽¹⁾	3,880,770	0.359238
Shigeki Hayashi Director	Japanese	Common	1	5	0.000000
Junichi Igarashi Director	Japanese	Common	1	5	0.000000
Aurora C. Ignacio ⁽⁴⁾ Director	Filipino	Common	1	5	0.000000
Bernido H. Liu Independent Director	Filipino	Common	1	5	0.000000

Name of Record and Address	Citizenship	Title of Class	Number of shares	Amount of Holdings	Percentage of Class
Retired Supreme Court Chief Justice Artemio V. Panganiban Independent Director	Filipino	Common	1,771 ⁽¹⁾	8,855	0.000820
Ma. Lourdes C. Rausa-Chan Director Corporate Secretary and Chief Governance Officer	Filipino	Common	6,500 ⁽¹⁾	32,500	0.003008
Albert F. del Rosario Director	Filipino	Common	142,410 ⁽¹⁾	712,050	0.065914
Pedro E. Roxas Independent Director	Filipino	Common	231 ⁽⁵⁾	1,155	0.000107
Marife B. Zamora Director	Filipino	Common	5	25	0.000002
Alfredo S. Panlilio ⁽⁶⁾ Chief Revenue Officer	Filipino	Common	3,000	15,000	0.001389
Anabelle L. Chua Senior Vice President, Chief Financial Officer of PLDT and Risk Management Officer	Filipino	Common	20,578 ⁽¹⁾	102,890	0.009524
Gina Marina P. Ordoñez Senior Vice President Chief People Officer	Filipino	Common	3,234 ⁽⁷⁾	16,170	0.001497
Victorico P. Vargas Business Transformation Head	Filipino	Common	9,545 ⁽⁷⁾	47,725	0.004418
Marilyn A. Victorio-Aquino Senior Vice President, Chief Legal Counsel	Filipino	Common	—	—	—
Alejandro O. Caeg Senior Vice President, Consumer Business – Sales	Filipino	Common	6,165 ⁽⁷⁾	30,825	0.002853
Juan Victor I. Hernandez Senior Vice President, Enterprise Business	Filipino	Common	2,385 ⁽⁷⁾	11,925	0.001104
Menardo G. Jimenez, Jr. Senior Vice President, Consumer Business – Home	Filipino	Common	4,894 ⁽¹⁾	24,470	0.002265
June Cheryl A. Cabal-Revilla Senior Vice President, Financial Reporting and Controllersh Head and Chief Sustainability Officer	Filipino	Common	5,090 ⁽⁷⁾	25,450	0.002356
Leo I. Posadas First Vice President and Treasurer	Filipino	Common	2,185 ⁽¹⁾	10,925	0.001011

⁽¹⁾ Includes PLDT common shares that have been lodged with the Philippine Depositary and Trust Co., or PDTC.

⁽²⁾ Elected by the Board of Directors as representative director of Social Security System in a meeting held on January 28, 2020.

⁽³⁾ Includes 2,780 shares thru RCBC Trust for the account of Michelle Y. Dee-Santos and 245 shares under the name of Helen Y. Dee, both under PCD Nominee Corporation and 21,957 shares owned by Hydee Management Corporation. As chairperson and president of Hydee Management Corporation, Ms. Dee may exercise the voting rights in respect of the 21,957 shares of Hydee Management Corporation.

⁽⁴⁾ Resigned as representative director of Social Security System effective January 28, 2020.

⁽⁵⁾ Includes 210 shares which were bought by a Trust controlled by Mr. Pedro E. Roxas for his children.

⁽⁶⁾ Appointment as Chief Revenue Officer effective July 1, 2019 was approved by the board in a meeting held on May 9, 2019

⁽⁷⁾ Lodged with the PDTC.

⁽⁸⁾ Directors and executive officers as of February 29, 2020.

The aggregate number of shares of common stock directly and indirectly owned by directors and executive officers⁽⁸⁾ listed above, as at February 29, 2020, was 1,298,586, or approximately 0.601042% of PLDT's outstanding shares of common stock.

Change in Control

There has been no change in control in respect of PLDT since 1998. We are not aware of any existing, pending or potential transaction which may result in such a change in control.

Item 12. Certain Relationships and Related Party Transactions

Related Party Transactions

Parties are considered to be related if one party has the ability, directly and indirectly, to control the other party or exercise significant influence over the other party in making financial and operating decisions. Parties are also considered to be related if they are subject to common control. Related parties may be individuals or corporate entities. Transactions with related parties are on an arm's length basis, similar to transactions with third parties.

Settlement of outstanding balances of related party transactions at year-end are expected to be settled with cash. The PLDT Group has not recorded any impairment of receivables relating to amounts owed by related parties as at December 31, 2019 and 2018. This assessment is undertaken each financial year through examining the financial position of the related party and the market in which the related party operates.

For a detailed discussion of our material related party transactions, see *Note 25 – Related Party Transactions* to the accompanying audited consolidated financial statements in Item 7. "Financial Statements".

Except for the transactions discussed in Item 1. "Description of Business – Recent Developments" and *Note 25 – Related Party Transactions* to the accompanying audited consolidated financial statements in Item 7. "Financial Statements", there were no other material related party transactions during the last three financial years, nor are there any material transactions currently proposed between PLDT and any: (i) director, officer, direct or indirect owner of 10% or more of the outstanding shares in PLDT; (ii) close family member of such director, officer or owner; (iii) associates of PLDT; (iv) enterprises controlling, controlled by or under common control with PLDT; or (v) enterprises in which a substantial interest in the voting power is owned, directly or indirectly, by any director, officer or owner of 10% or more of the outstanding shares in PLDT or any close family member of such director, key officer or owner, or collectively, the Related Parties.

There was no outstanding indebtedness at any time during the last three financial years that was owed to PLDT and/or its subsidiaries by any Related Party.

PART IV – CORPORATE GOVERNANCE

Item 13. Corporate Governance: Structure, Policies and Processes

Our Corporate Governance is the framework by which we strive to create sustainable value for the Company, fulfill our commitments to our stakeholders and develop a strong corporate culture. It is grounded on the core governance principles: integrity, accountability, transparency and fairness, and embodied in the governance structure, processes and standards set forth in PLDT's Articles of Incorporation, By-Laws, Manual on Corporate Governance (CG Manual), Code of Business Conduct and Ethics (Code of Ethics) and Corporate Social Responsibility Statement.

The Company continuously seeks to raise the standards of its business conduct through its compliance to applicable governance rules and benchmarking with international best practices. PLDT complies with governance and sustainability standards of the Philippines as a public company listed in the Philippine Stock Exchange (PSE) and applicable rules and governance standards of the United States as a foreign private issuer with American Depositary Shares listed and traded in the New York Stock Exchange (NYSE). PLDT benchmarks with the governance standards of Hong Kong being an associated company of First Pacific Company Ltd., which is listed in the Hong Kong Stock Exchange.

Governance Structure

Board of Directors

Our Board of Directors, or Board, is composed of 13 members, with three independent directors, eight other non-executive directors and two executive directors. All the directors are qualified and competent members with diverse and complementing skills, expertise, experience and knowledge.

At least three of our directors, namely, Retired Supreme Court Chief Justice Artemio V. Panganiban, Mr. Pedro E. Roxas and Mr. Bernido H. Liu, are independent directors who are neither officers nor employees of PLDT or any of its subsidiaries, and who are free from any business or other relationship with PLDT or any of its subsidiaries which could, or could reasonably be perceived to, materially interfere with the exercise of independent judgment in carrying out their responsibilities as independent directors. On March 21, 2019, the Board appointed Retired Supreme Court Chief Justice Artemio V. Panganiban as PLDT's Lead Independent Director. The independence standards/criteria are provided in our By-Laws and CG Manual.

Advisory Board/Committee

Our Board is supported by an Advisory Board/Committee composed of Mr. Roberto R. Romulo, Mr. Benny S. Santoso, Mr. Orlando B. Vea, Mr. Christopher H. Young, and Mr. Oscar S. Reyes. The Advisory Board/Committee provides guidance and suggestions, as necessary, on matters deliberated upon during Board meetings.

The primary responsibility for ensuring good corporate governance in PLDT is vested in our Board. The Board has the authority and responsibility to exercise the corporate powers, conduct the business and control the properties of the Company. Directors are expected to perform their duties diligently and in good faith and devote sufficient time and attention for such purposes. The Board and the directors are bound to act in the best interest of the Company and for the common benefit of its stockholders and other stakeholders.

To ensure a high standard of governance for the Company, the Board performs the following functions and duties with the assistance of the Board Committees:

- *Corporate Governance.* The Board, with the assistance of the Governance and Nomination Committee, establishes the Company's corporate governance framework and policies and oversees their implementation.
- *Determination and review of Company's Vision, Mission and strategic objectives.* The Board, in coordination with Management, determines the Vision, Mission and strategic objectives of the Company and reviews the same annually in relation to corporate performance in its annual strategic planning session with Management.
- *Management oversight.* The Board exercises oversight on Management in its execution of the strategic direction and implementation of the policies set by the Board.
- *Corporate Social Responsibility and Stakeholder engagement.* The Board, with the assistance of the Governance and Nomination Committee, oversees the Company's stakeholder engagement and corporate social responsibility programs. It ensures that the Company has an investor relations program and programs for engagement and communication with sectors of the community in which the Company operates, including the Company's disclosure of material and reportable information regarding non-financial and sustainability issues, with focus on the management of economic, environmental, social and governance (EESG) issues of the business.
- *Financial reporting, internal control, internal audit and independent audit.* The Board, with the assistance of the Audit Committee, carries out its oversight responsibilities for the Company's financial reporting, internal control system, internal audit and independent audit mechanisms.
- *Enterprise risk management.* The Board, with the assistance of the Risk Committee, fulfills its oversight responsibilities for the Company's assessment and management of enterprise risks. It reviews and discusses with Management the Company's major risk exposures and the corresponding risk mitigation measures.
- *Technology.* The Board, with the assistance of the Technology Strategy Committee, reviews and approves the Company's technology strategy and roadmap and capital expenditures for network and technology.
- *Succession planning, professional development and executive compensation.* The Board, through its Executive Compensation Committee, reviews the criteria for employment, promotion and professional development plans for Senior Management; keeps track of their performance, and evaluates their potential for other critical roles and leadership paths. A succession planning process is facilitated within the PLDT Group referred to as the critical talent program. The Board is assisted by the Executive Compensation Committee in developing the compensation philosophy or policy consistent with the strategy, culture and control environment of the Company.
- *Selection process for directors and appointment of officers.* The Board, with the assistance of the Governance and Nomination Committee, implements a selection process to ensure that the Board has an effective and balanced mix of knowledge, expertise, experience and diversity in terms of, among others, age, gender and ethnicity, and reviews the qualifications of officers to be appointed.
- *Annual Board assessment.* The Board conducts an annual self-assessment to evaluate the performance of the Board as a whole, the Board Committees and the individual directors. Each Board Committee also conducts an annual self-assessment of its performance.

Board Committees

Audit Committee (AC). Our AC is composed of three members, all of whom are independent directors, and four advisors. The AC members are Retired Supreme Court Chief Justice Artemio V. Panganiban, Mr. Bernido H. Liu and Mr. Pedro E. Roxas, who is the chairman of this committee. The four AC advisors are Mr. Junichi Igarashi and Mr. James L. Go, who are non-independent members of our Board, Mr. Roberto R. Romulo, a member of our Advisory/Board Committee, and Ms. Corazon S. de la Paz-Bernardo, a former member of our Board of Directors. All of the members of our AC are financially literate and Ms. Corazon S. de la Paz-Bernardo has expertise in accounting and financial management. She was a former Chairman and Senior Partner of Joaquin Cunanan & Company, now Isla Lipana & Co., a member firm of Pricewaterhouse Coopers (PwC). The AC assists the Board in fulfilling its oversight responsibility for: (i) the integrity of the Company's accounting and financial reporting principles and policies, and system of internal controls, including the integrity of financial statements and the independent audit thereof; (ii) the Company's compliance with legal and regulatory requirements; and (iii) the Company's audit process and the performance of the internal audit organization and the external auditors, including the external auditors' qualifications and independence. For efficiency, the Board has

determined that in lieu of creating a distinct Related Party Transaction Committee, the AC's functions shall include the review of material related party transactions and significant unusual transactions, in accordance with the materiality threshold set in the Material Related Party Transactions Policy and the Guidelines on the Proper Handling of Related Party Transactions or by the Board. The purposes, duties and powers of the AC are set forth in the AC Charter.

Governance and Nomination Committee (GNC). Our GNC is composed of five voting members, all of whom are regular members of our Board of Directors, and two non-voting members. Three of the voting members are independent directors, namely, Retired Supreme Court Chief Justice Artemio V. Panganiban, Mr. Pedro E. Roxas and Mr. Bernido H. Liu, and two are non-independent directors, namely, Mr. Junichi Igarashi and Mr. Manuel V. Pangilinan, who is the chairman of this committee. The two non-voting members are Atty. Ma. Lourdes C. Rausa-Chan and effective March 21, 2019, Ms. Gina Marina P. Ordoñez. The GNC assists the Board in the performance of its functions to: (i) establish the Company's corporate governance framework, principles and policies and oversee their implementation and assist the Board in performing its oversight function on the Company's fulfillment of its environmental, social and governance responsibilities and corporate social responsibilities; (ii) develop and implement the Board's performance evaluation process; (iii) review and evaluate the qualifications of the persons nominated to the Board and to other positions requiring appointment by the Board; (iv) identify persons qualified to become members of the Board and/or the Board Committees; and (v) make an assessment of the effectiveness of the Company's nomination and selection process for the Board and Board Committees. The purposes, duties and powers of the GNC are set forth in the GNC Charter.

Executive Compensation Committee (ECC). Our ECC is composed of five voting members, all of whom are regular members of our Board of Directors, and one non-voting member. Three of the voting members are independent directors, namely, Retired Supreme Court Chief Justice Artemio V. Panganiban, Mr. Pedro E. Roxas and Mr. Bernido H. Liu, and two are non-independent directors, namely, Mr. Junichi Igarashi and Mr. Manuel V. Pangilinan, who is the chairman of this committee. The non-voting member, effective March 21, 2019, is Ms. Gina Marina P. Ordoñez. The ECC assists the Board in the performance of its functions to: (i) oversee the development of a compensation philosophy or policy consistent with the strategy, culture and control environment of PLDT; (ii) oversee the development and administration of PLDT's executive compensation programs, including long term incentive plans and equity-based plans for officers and executives; (iii) oversee the development and administration of the Company's performance management framework to monitor and assess the performance of Management; (iv) review the succession plan for officers, including the CEO, and (v) oversee the development and implementation of professional development programs for officers. The purposes, duties and powers of the ECC are set forth in the ECC Charter.

Risk Committee (RC). Our RC is composed of five voting members, all of whom are regular members of our Board of Directors. Three of the voting members are independent directors, namely, Mr. Pedro E. Roxas, Mr. Bernido H. Liu and Retired Supreme Court Chief Justice Artemio V. Panganiban, who is the chairman of this committee, and two are non-executive non-independent directors, namely, Mr. Junichi Igarashi and Mr. James L. Go. The RC assists the Board in the performance of its functions to: (i) oversee Management's adoption and implementation of a system for identifying, assessing, monitoring and managing key risk areas; (ii) review Management's reports on the Company's major risk exposures; and (iii) review Management's plans and actions to minimize, control or manage the impact of such risks. The purposes, duties and powers of the RC are set forth in the RC Charter.

Technology Strategy Committee (TSC). Our TSC is composed of five voting members and two non-voting members. The five voting members are non-independent directors Mr. Manuel V. Pangilinan, who serves as chairman, former Ambassador Albert F. del Rosario, Atty. Ray C. Espinosa, Mr. James L. Go and Mr. Junichi Igarashi, and the two non-voting members are Mr. Oscar S. Reyes and Mr. Orlando B. Vea, who are members of our Advisory Board/Committee. The TSC assists the Board in the performance of its functions to: (i) review and approve the strategic vision for the role of technology in PLDT's overall business strategy, including the technology strategy and roadmap of PLDT; (ii) fulfill its oversight responsibilities for PLDT's effective execution of its technology-related strategies; and (iii) ensure the optimized use and contribution of technology to PLDT's business and strategic objectives and growth targets. The purposes, duties and powers of the TSC are set forth in the TSC Charter.

President & CEO and Management. The President & CEO has general care, management and administration of the business operations of the Company. He ensures that the business and affairs of the Company are managed in a sound and prudent manner and that operational, financial and internal controls are adequate and effective to ensure reliability and integrity of financial and operational information, effectiveness and efficiency of operations, safeguarding of assets and compliance with laws, rules, regulations and contracts. He provides leadership for Management in developing and implementing business strategies, plans and budgets to the extent approved by the Board. In order to enable the members of the Board to properly fulfill their duties and responsibilities, the CEO provides the Board with a balanced and understandable account of the Company's performance, financial condition, results of operations and prospects on a regular basis. He directs Management to provide the Board/directors with adequate and timely information about the matters to be taken up in their Board meetings and, upon the request of any director or the Board, to make presentations on specific topics and respond to further inquiries in relation thereto during Board meetings. He ensures that the directors have independent access to Management. The President & CEO: (i) communicates and implements the Company's vision, mission, values and overall strategy and promotes the appropriate enhancement in the organization or its stakeholder engagement in relation to the same; and (ii) serves as the link between internal operations and external stakeholders. Management formulates, under the oversight of the Audit Committee, financial reporting and internal control systems, rules and procedures.

Corporate Secretary. The Corporate Secretary assists the Board in the conduct of its meetings, including the preparation of the schedule and agenda of Board meetings, and ensures that all Board procedures, rules and regulations are observed by the directors, and Management provides the Board with complete and accurate information necessary for judicious

decision making. The Corporate Secretary is responsible for the safekeeping and preservation of the integrity of the minutes of the meetings of the Board and Board Committees, as well as other official records of the Company, and contributes to the flow of information between the Board and Management, the Board and its Committees, and the Board and the Company's stakeholders, including stockholders.

Internal Audit Organization. The internal audit organization determines whether our structure of risk management, control and governance processes are adequate and functioning to ensure that, among others, significant financial, managerial, and operating information are accurate, reliable and timely and employees' actions are in compliance with policies, standards, procedures, and applicable laws and regulations.

It provides a systematic and disciplined approach in the evaluation and improvement of the effectiveness of such processes. Internal audit examinations cover, at the minimum, the evaluation of the adequacy and effectiveness of controls covering the Company's financial reporting, governance, operations and information systems, including the reliability and integrity of financial and operational information, effectiveness and efficiency of operations, protection of assets, and compliance with laws, rules, regulations and contracts. The Chief Audit Officer/Internal Audit Head oversees and is responsible for the internal audit activities of the Company, including any portion thereof that is outsourced to a third party service provider. He reports functionally to the AC and administratively to the President and CEO. The charter of the internal audit organization complies with the International Standards for the Professional Practice of Internal Auditing of the Institute of Internal Auditors.

External Auditor. The Company's external auditor is appointed by the AC which reviews its qualifications, performance and independence. To ensure objectivity in the performance of its duties, the external auditor is subject to the rules on rotation and change, every five years, general prohibitions on hiring of staff of the external auditor; and full and appropriate disclosure to, and prior approval by, the AC of all audit and non-audit services and related fees for such services. Approval of non-audit work by the external auditor is principally tested against the standard of whether such work will conflict with its role as an independent auditor or would compromise its objectivity or independence as such.

Chief Risk Management Officer (CRMO) and Group Enterprise Risk Management Department (GRMD). The GRMD, under the leadership of the Chief Risk Management Officer, implements an integrated risk management program with the goal of identifying, analysing and managing the PLDT Group's risks to an acceptable level, so as to enhance opportunities, reduce threats, and thus sustain competitive advantage. The implementation of the enterprise risk management (ERM) process ensures that critical risks are well understood and effectively managed across all functions and units within the PLDT Group. The GRMD sets guidelines for the identification and analysis of key risk exposures relating to economic, environmental, social and governance factors and the achievement of the organization's strategic objectives, evaluates and categorizes identified risks. It assists in the development of risk mitigation plans for the most important risks of the Company. It communicates and reports significant risk exposures, including business risks, control issues and risk mitigation plan to the Risk Committee. The ERM process used by the GRMD is based on the ISO 31000 standard on risk management. The GRMD Head supervises the entire ERM process and spearheads the development, implementation, maintenance and continuous improvement of ERM processes and documentation, and communicates the top risks and status of implementation of risk management strategies and action plans to the Risk Committee and the Board.

Chief Governance Officer. The Chief Governance Officer monitors compliance with the provisions and requirements of corporate governance laws, rules and regulations, reports violations and recommends the imposition of disciplinary actions for such violations, and the adoption of measures to prevent the repetition of such violations, subject to further review and approval by the Board. The Chief Governance Officer assists the Board and the GNC in the performance of their governance functions, including the implementation of corporate governance rules and policies, proper onboarding of new directors, and conduct of corporate governance trainings for directors and officers, and collaborates with other responsible departments of the Company to: (i) monitor, review, evaluate and ensure compliance with relevant laws and regulations; (ii) ensure the integrity and accuracy of documentary submissions to regulatory agencies; and (iii) address compliance issues. Under the supervision and direction of the Chief Governance Officer, the Corporate Governance Office assists in the implementation of the corporate governance policies adopted by the Board.

Chief Sustainability Officer. The Chief Sustainability Officer heads the Sustainability Office and assists the President and Chief Executive Officer and the Board in overseeing the Company's overall sustainability strategy and that the Company institutionalizes sustainability management towards the cultivation of a strong culture of corporate responsibility.

Policies and Practices

The Company promotes a culture of good corporate governance through the implementation of its CG Manual, Code of Ethics and related corporate governance policies.

CG Manual. Our CG Manual, which was approved and adopted by the Board on May 12, 2017 in accordance with the Code of Corporate Governance for Publicly-Listed Companies issued under SEC Memorandum Circular No. 19, Series of 2016 (the "CG Code for PLCs"), defines our corporate governance framework and structure. Together with PLDT's Articles of Incorporation and By-Laws, it assigns and delineates functions and responsibilities, and entrusts powers, authorities and resources for the execution of such functions and responsibilities. The CG Manual provides, among other matters, the composition and responsibilities of the Board, the Company's duties towards its shareholders in general, its minority shareholders and its other stakeholders, and the Company's obligation to comply with applicable disclosure rules. A copy of the CG Manual is posted at <http://pldt.com/docs/default-source/corporate-governance-files/cg-manual>

/pldt-manual-on-corporate-governance.pdf.

Code of Ethics. Our Code of Ethics defines the Company's corporate governance principles of integrity, accountability, transparency and fairness, which the Company shall observe in the conduct of its business. It sets the governance and ethical standards that shall govern and guide all business relationships of the Company, its directors, officers and employees. A copy of the Code of Ethics is posted at: <http://pldt.com/docs/default-source/policies/pldt-code-of-business-conduct-and-ethics.pdf>.

The implementation of the Code of Ethics is reinforced by enabling policies such as the *Conflict of Interest Policy, Supplier/Contractor Relations Policy, Expanded Whistleblowing Policy, Gifts, Entertainment and Sponsored Travel Policy, and Policy on Gift-Giving Activities* which, in conjunction with the Code of Ethics, embodies the Company's anti-corruption policy.

In 2019, PLDT adopted a Material Related Party Transactions (MRPT) Policy in accordance with the Company's Manual on Corporate Governance and in compliance with SEC Memorandum Circular No.10, Series of 2019 or the Rules on Material Related Party Transactions for Publicly-Listed Companies. A copy of the MRPT Policy is posted at <http://pldt.com/docs/default-source/corporate-governance-files/policies/material-related-party-transactions-policy.pdf>.

The Company's CG policies, including the Code of Ethics, are reviewed at least once every two years to ensure that they are appropriate for PLDT, benchmarked with global best practices, and compliant with applicable law and regulations.

PLDT's key subsidiaries have adopted corporate governance rules and policies similar in substance and form to the foregoing corporate governance policies and suited to their particular business environments and contexts, and appointed their respective corporate governance or compliance officers.

Training and Education. The Company provides orientation and continuous training for its Board, Management and employees. For its directors and officers, the Company conducts an Annual In-House Corporate Governance Enhancement Session that provides an opportunity for leadership to engage in discussion with international and local experts on relevant topics, including emerging trends and technologies, new laws, and best business practices. Updates on business and governance policies and requirements, and new laws applicable or relevant to the Company and its business are presented in Board meetings or furnished to directors. For employees, the Company conducts orientation and periodic training sessions on Company policies, including corporate governance policies; skills building; and wellness and development; supplemented with appropriate communication materials and feedback mechanisms.

Monitoring and Evaluation. PLDT monitors and evaluates the effectiveness of its corporate governance through the annual performance self-assessment conducted by the Board and the Board Committees, the periodic review of the effectiveness of the implementation of the Company's corporate governance policies, the annual compliance evaluation conducted by Management and other tools employed to monitor the implementation of the corporate governance policies.

(a) Evaluation system to determine compliance with the CG Code for PLCs and CG Manual

PLDT monitors and evaluates compliance with the CG Code for PLCs and CG Manual through a cross-functional evaluation system whereby the heads of the various business and support groups/units conduct an evaluation of their group/unit's compliance by the use of an evaluation questionnaire consisting of the governance standards set forth in the CG Code for PLCs and CG Manual which are applicable and relevant to their respective functions. The results of the evaluation are consolidated as input to the Company's Integrated Annual Corporate Governance Report (IACGR) submitted to the SEC and PSE.

(b) Measures undertaken to fully comply with adopted leading practices on good corporate governance

Based on the results of the evaluation, the Company undertakes appropriate measures to further improve its corporate governance standards. In 2019, these measures include: appointment of a lead independent director in compliance with the Recommendation of the CG Code for PLCs; adoption of a Material Related Party Transactions Policy in compliance with SEC Memorandum Circular No. 10, Series of 2019, and the CG Manual; and the appointment of a Chief Sustainability Officer and setting of the standard monitoring and reporting protocols that would be used and applied for its Sustainability Report in compliance with SEC Memorandum Circular No. 4, Series of 2019 or the Sustainability Reporting Guidelines. Please see page 113 for more details on the Company's corporate governance activities in 2019.

(c) Compliance with the CG Manual

In compliance with the respective memorandum circulars of the SEC and the PSE, PLDT filed its IACGR on May 29, 2019 and confirmed its compliance with its CG Manual that contains relevant provisions of the CG Code for PLCs and certain corporate governance standards under the US Securities Exchange Act and NYSE Listed Company Manual.

(d) Plans to further improve the corporate governance standards of the Company

For 2020, the Company aims to continuously improve its governance standards and practices in accordance with the Recommendations of the CG Code for PLCs, the mandate of the Revised Corporation Code, the results and feedback obtained from the Company's monitoring and evaluation system, and by benchmarking with recognized best practices.

Sustainability Commitment

The PLDT Group is dedicated to the service of the nation. This commitment to foster inclusive progress and development for all also makes it essential for the organization to place sustainability at the core of its business strategy. This development agenda is reflected in the PLDT Group's Seven Pillars of Sustainability: Awesome Customer Experience & Quality of Service; Growth-Driven Innovation; Responsible & Efficient Operations; Environmental Stewardship; Positive Community Impact; Excellence in Human Capital; and Good Governance & Ethical Business Practices.

As part of its sustainability journey, the PLDT Group has identified the material topics/issues most important to its stakeholders and those that impact their relationship with the Group, and these have been categorized under the Seven Pillars of Sustainability. The PLDT Group has also identified the standard monitoring and reporting protocols that would be used and applied for its Sustainability Report in compliance with the Sustainability Reporting Guidelines.

Details of the PLDT Group's sustainability roadmap and information are set out in the Sustainability Report. The 2018 Sustainability Report is available at http://pldt.com/docs/default-source/annual-reports/sustainability-report/pldt-2018-sustainability-report_final.pdf.

Corporate Social Responsibility

In fulfilling our commitments to our stakeholders, we are guided by our Code of Ethics and Corporate Social Responsibility Statement (CSR Statement). The CSR Statement is the articulation of our belief that helping to improve the overall well-being of the Filipino people is an integral part of our business. The CSR Statement enumerates the broad responsibilities that PLDT assumes as it operates and conducts its business. A copy of the CSR Statement is posted at <http://www.pldt.com/corporate-governance-in-pldt/our-stakeholders>. Pursuant to the CSR Statement, the PLDT Group's social programs leverage its communications and digital services and the volunteer spirit of its employees to implement projects in education, agri-livelihood, disaster preparedness, the environment, digital tourism and sports that aim to help Filipinos change their lives for the better. The Company's CSR programs and activities are reported in the Company's Sustainability Report released annually since 2016.

Stakeholder Engagement

Investors/Shareholders. PLDT respects, promotes and upholds shareholders rights such as: the right to vote; pre-emptive right; the right to inspect corporate books and records, including minutes of Board meetings and stock registries, subject to certain conditions; right to timely receive relevant information, whether in printed or digital form; right to dividends; and appraisal right. We explore and implement steps to reduce excessive or unnecessary costs that impede stockholders' participation in annual and special stockholders' meetings and acts with transparency and fairness in said meetings. We make timely disclosures of material information and transactions that could potentially affect the market price of the Company's shares.

PLDT regularly conducts analysts and investors' briefings to discuss financial and operating results for the second quarter and full year and teleconferences to discuss first and third quarter results. Our Investor Relations Center also conducts regular dialogues with our investors.

Customers. PLDT serves a broad range of customers from individuals, residential, micro, small and medium enterprise (SME) and large enterprise, including the public sector. We strive to satisfy our customers' requirements and expectations regarding innovative products and services, quality of service, pricing, application process, service provisioning process, repair and restoration service and billing process. We continuously engage with our customers through various touchpoints with the end in view of knowing and understanding their product and service needs, promptly addressing their concerns and identifying areas where we could further enhance customer experience.

Employees. PLDT respects the rights of its employees, among which are the right to self-organization, safe and healthy working conditions, professional development, and community-building social activities. We offer opportunities for leader-led, employee-owned, and digital-enabled people programs anchored on the mission to deliver best-in-class employee experience. We also provide adequate opportunity for career advancement on a performance and merit-based system. Compensation and incentives are likewise determined on the basis of performance and accomplishment. Dedicated staff, facilities, and digital/ social platforms are made available for the training, development, and engagement programs of the Company.

Suppliers. PLDT aspires to maintain mutually beneficial relationships only with like principled suppliers that uphold PLDT's core values of fairness, accountability, integrity and transparency in their own businesses. Suppliers are required to undergo an accreditation process before they engage in business with PLDT. Among the criteria for accreditation are financial capability, technical capability, compliance with applicable laws, including those pertaining to industrial relations, environment, health and safety, and intellectual property rights. The Company's purchases, as a general rule, are made on the basis of competitive bidding among accredited and qualified suppliers.

Creditors. PLDT protects the rights of its creditors by publicly disclosing all material information, such as earnings results and risk exposures relating to loan covenants. Our disclosure controls and procedures also include periodic reports to our creditors such as our latest certified Financial Statements, No Default Certification, and Certification on compliance with financial ratio limits. PLDT's credit has been rated at "investment grade" by the three major international credit-rating agencies.

Communities. In the spirit of service to Filipino communities, the PLDT Group continues to build on its corporate social responsibility programs by leveraging on its expertise, technological strength, and corporate culture. Serving the community is an integral part of making technology accessible to all. With their technology and services, PLDT and Smart are well-positioned to provide much needed assistance to communities. Their role and core competence is that of an ‘enabler’-- providing the technical skills, technologies and resources in key areas where PLDT and Smart have chosen to help develop communities: education, livelihood, disaster preparedness and response, environment and agriculture.

Regulators. PLDT operates within relevant legislative and regulatory frameworks and complies with the requirements thereunder which are applicable to it. We participate in public policy forums, conferences and hearings conducted by governmental and regulatory agencies relative to initiatives in the fields of Information and Communication Technology (ICT), corporate governance and labor-related matters. Our “Internet for All” advocacy and investments in network infrastructure and technologies to provide the widest coverage and superior quality of service at affordable prices are aligned with and support the Government’s objectives set out in the Public Telecommunications Policy Act.

Enterprise Risk Management

PLDT Group Top Risks. The GRMD, under the leadership of the Chief Risk Management Officer, promulgates and encourages the adoption of a standard risk evaluation process focused on the need to properly identify, analyse, evaluate, treat and monitor risks that may affect the achievement of business objectives. The ERM process being implemented is based on the International Standard of ISO 31000. A risk assessment exercise was undertaken by the Top Management Team to identify and prioritize the most important risks affecting the PLDT Group for 2019. The top risks, listed in no particular order of criticality, were: (i)customer experience issues and reputational risks.; (ii)delivery of transformation initiatives; (iii)operational inefficiencies; (iv)competitive situation and economic conditions; (v)rapid speed of disruptive innovations and new technologies; (vi) regulatory changes/scrutiny; (vii) privacy/identity management challenges and increase in information security issues; (viii) people risks; (ix) financial risks; and (x) regular occurrence of natural disasters. Treatment strategies have been developed, and mitigation initiatives have been put in place. Risk management activities are continuously monitored and reviewed to ensure that critical risks are appropriately addressed across the organization.

2019 Activities

In 2019, the Company (i) appointed a Lead Independent Director pursuant to the Recommendation of the Code of Corporate Governance for Publicly-Listed Companies; (ii) adopted a Material Related Party Transactions Policy in compliance with the Rules on Material Related Party Transactions for Publicly-Listed Companies; and (iii) appointed a Chief Sustainability Officer in line with international best practices.

Additionally, the Company completed various activities and programs including the following: (a) submitted the Integrated Annual Corporate Governance Report (I-ACGR) in accordance with SEC Memorandum Circular No. 15, Series of 2017; (b) reviewed the Policy on Gifts, Entertainment and Sponsored Travel; Policy on Gift-Giving Activities; Expanded Whistleblowing Policy; and the Supplier/Contractor Relations Policy and determined that the said policies remain to be compliant with applicable law, regulations and best practices and are appropriate for the Company; (c) conducted the Annual Corporate Governance Enhancement Session for PLDT’s Board and Management on the topics: (i) *5G Technology Strategy and Governance: Market Trends and New Business Applications, Risks and Challenges*; and (ii) *Cyber Security: Protecting Critical Business Infrastructure* and conducted CG orientation and refresher training programs on Company policies including corporate governance and skills building, (d) convened PLDT’s Annual Stockholders’ Meeting on June 11, 2019, with holders of 86.19% of total outstanding capital present or represented by proxy in the meeting; and (e) published the Company’s Annual Report, which also contains the CSR Report and ERM Report, and the Sustainability Report for 2018.

PART V – EXHIBITS AND SCHEDULES

Item 14. Exhibits and Reports on SEC Form 17-C

Exhibits

See Exhibit 1 – Sustainability Report.

Reports on SEC Form 17-C (Current Reports)

We reported the following items on SEC Form 17-C during the last two quarters of 2019:

Items Reported	Date Filed
1. Separation from service of Mr. Ariel G. Aznar, VP, effective July 1, 2019.	July 1, 2019
2. Analysts' briefing and teleconference to discuss the Company's Financial and Operating Results for the six months ended June 30, 2019.	July 26, 2019
3. Separation from service of Ms. Annette Yvette W. Tirol, FVP.	August 1, 2019
4. Cash dividend declaration on the Company's shares of Common Stock and Series IV Cumulative Non-Convertible Redeemable Preferred Stock.	August 8, 2019
5. Confirmation of SVP rank of the Chief Legal Counsel and Chief People Officer and appointment of new officers.	August 8, 2019
6. Press release regarding the Company's unaudited consolidated financial results for the six (6) months ended June 30, 2019.	August 8, 2019
7. Presentation materials	August 8, 2019
8. Separation from service of Mr. Ricardo Sison, FVP, and Mr. Luis Ignacio Lopa, VP.	September 2, 2019
9. Cash dividend declaration on the Company's Voting Preferred Stock payable on October 15, 2019.	September 24, 2019
10. Press release entitled "PLDT undertakes Consent Solicitation to amend Trust Indenture of Retail Bonds".	October 11, 2019
11. Teleconference to discuss the Company's Financial and Operating Results for the nine (9) months ended September 30, 2019.	October 25, 2019
12. Press release entitled "PLDT announces early closing of Consent Solicitation".	October 30, 2019
13. Press release regarding the Company's Financial and Operating Results for the nine (9) months ended September 30, 2019.	November 7, 2019
14. Confirmation of the appointment of officers and promotion to officer rank.	November 7, 2019
15. Cash dividend declaration on the Company's Series IV Cumulative Non-Convertible Redeemable Preferred Stock	November 7, 2019
16. Presentation materials	November 7, 2019
17. Appointment of Ms. June Cheryl A. Cabal-Revilla as Chief Sustainability Officer.	December 4, 2019
18. Cash dividend declaration on the Company's Voting Preferred Stock.	December 4, 2019
19. Separation from service of Mr. Jose Arnilo S. Castañeda and Mr. Gerardo Jose V. Castro	December 16, 2019



SIGNATURES

Pursuant to the requirements of Section 17 of the Securities Regulation Code and Section 141 of the Corporation Code of the Philippines, this annual report is signed on behalf of the registrant by the undersigned, thereunto duly authorized, in the City of Makati on March 31, 2020.

PLDT Inc.
Registrant

By:

MANUEL V. PANGILINAN

Principal Executive Officer and
Principal Operating Officer

MA. LOURDES C. RAUSA-CHAN

Corporate Secretary

ANABELLE LIM-CHUA

Principal Financial Officer and CFO

JUNE CHERYL A. CABAL-REVILLA

Principal Accounting Officer and Controller

PLDT INC.

SEC FORM 17-A

INDEX TO FINANCIAL STATEMENTS AND SUPPLEMENTARY SCHEDULES

	<u>Page</u>
FINANCIAL STATEMENTS	
Statement of Management’s Responsibility for Financial Statements	F
Report of Independent Auditors	F-1
Statement of Financial Position as at December 31, 2019 (With Comparative Figures as at December 31, 2018)	F-2
Income Statements for the year ended December 31, 2019 (With Comparative Figures for the Years Ended December 31, 2018 and 2017)	F-4
Statement of Comprehensive Income for the year ended December 31, 2019 (With Comparative Figures for the Years Ended December 31, 2018 and 2017)	F-5
Statement of Changes in Equity for the year ended December 31, 2019 (With Comparative Figures for the Years Ended December 31, 2018 and 2017)	F-6
Statement of Cash Flows for the year ended December 31, 2019 (With Comparative Figures for the Years Ended December 31, 2018 and 2017)	F-7
Notes to Consolidated Financial Statements	F-9
SUPPLEMENTARY SCHEDULES	
Report of Independent Auditors on Supplementary Schedules	S-1
A. Financial Assets	S-2
B. Amounts Receivable from Directors, Officers, Employees, Related Parties and Principal Stockholders (Other than Related Parties)	*
C. Amounts Receivable from Related Parties which are eliminated during the consolidation of Financial Statements	S-3
D. Interest-bearing Financial Liabilities	S-4
E. Indebtedness to Affiliates and Related Parties (Long-Term Loans from Related Companies)	S-7
F. Guarantees of Securities of Other Issuers	*
G. Capital Stock	S-8
H. Reconciliation of Retained Earnings Available for Dividend Declaration	S-9
I. Map of the Relationships of the Companies within the Group	S-10
J. Financial Soundness Indicators	S-12

* These schedules have been omitted because they are either not required, not applicable or the information required to be presented is included in PLDT’s consolidated financial statements or the notes to consolidated financial statements.



March 31, 2020

**STATEMENT OF MANAGEMENT'S RESPONSIBILITY
FOR CONSOLIDATED FINANCIAL STATEMENTS**

The management of PLDT Inc. and Subsidiaries (the PLDT Group) is responsible for the preparation and fair presentation of our consolidated financial statements, including the schedules attached therein, as at December 31, 2019 and 2018, and for each of the three years in the period ended December 31, 2019, in accordance with the prescribed financial reporting framework indicated therein, and for such internal control as management determines is necessary to enable the preparation of our consolidated financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the consolidated financial statements, management is responsible for assessing the PLDT Group's ability to continue as a going concern, disclosing, as applicable, matters related to going concern and using the going concern basis of accounting, unless management either intends to liquidate the Company or to cease operations, or has no realistic alternative but to do so.

The Board of Directors is responsible for overseeing the Company's financial reporting process.

The Board of Directors reviews and approves the consolidated financial statements, including the schedules attached therein, and submits the same to the stockholders or members.

SyCip Gorres Velayo & Co., the independent auditor appointed by the stockholders, has audited the PLDT Group's consolidated financial statements in accordance with Philippine Standards on Auditing, and in its report to the stockholders or members, has expressed its opinion on the fairness of presentation upon completion of such audit.

Manuel V. Pangilinan
Chairman of the Board
President and Chief Executive Officer

Anabelle Lim-Chua
Senior Vice President and Chief Financial Officer

June Cheryl A. Cabal-Revilla
Senior Vice President and Controller

INDEPENDENT AUDITOR'S REPORT

The Stockholders and Board of Directors
PLDT Inc.
Ramon Cojuangco Building
Makati Avenue, Makati City

Opinion

We have audited the consolidated financial statements of PLDT Inc. and its subsidiaries (the PLDT Group), which comprise the consolidated statements of financial position as at December 31, 2019 and 2018, and the consolidated income statements, consolidated statements of comprehensive income, consolidated statements of changes in equity and consolidated statements of cash flows for each of the three years in the period ended December 31, 2019, and notes to the consolidated financial statements, including a summary of significant accounting policies.

In our opinion, the accompanying consolidated financial statements present fairly, in all material respects, the consolidated financial position of the PLDT Group as at December 31, 2019 and 2018, and its consolidated financial performance and its consolidated cash flows for each of the three years in the period ended December 31, 2019 in accordance with Philippine Financial Reporting Standards (PFRSs).

Basis for Opinion

We conducted our audits in accordance with Philippine Standards on Auditing (PSAs). Our responsibilities under those standards are further described in the *Auditor's Responsibilities for the Audit of the Consolidated Financial Statements* section of our report. We are independent of the PLDT Group in accordance with the Code of Ethics for Professional Accountants in the Philippines (Code of Ethics) together with the ethical requirements that are relevant to our audit of the consolidated financial statements in the Philippines, and we have fulfilled our other ethical responsibilities in accordance with these requirements and the Code of Ethics. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

Key Audit Matters

Key audit matters are those matters that, in our professional judgment, were of most significance in our audit of the consolidated financial statements of the current period. These matters were addressed in the context of our audit of the consolidated financial statements, and in forming our opinion thereon, and we do not provide a separate opinion on these matters. For each matter below, our description of how our audit addressed the matter is provided in that context.

We have fulfilled the responsibilities described in the *Auditor's Responsibilities for the Audit of the Consolidated Financial Statements* section of our report, including in relation to these matters. Accordingly, our audit included the performance of procedures designed to respond to our assessment of the risks of material misstatement of the consolidated financial statements. The results of our audit procedures, including the procedures performed to address the matters below, provide the basis for our audit opinion on the accompanying consolidated financial statements.



Revenue recognition

At December 31, 2019, the Group recognized revenues amounting to Php169,187 million as disclosed in Notes 3, 4 and 5 to the consolidated financial statements. The Group derives revenues from wireless and fixed line telecommunications services, which includes bundled offers such as telecommunications services and handsets provided to a large number of subscribers.

Auditing management's revenue recognition process over bundled offers was complex due to the complexity of the arrangements involving multiple deliverables and elements which required the identification of separate performance obligations, allocation of transaction prices to the performance obligations using amounts that reflect their estimated standalone selling prices and the subsequent recognition of revenue either over time or at a point in time upon the satisfaction of the performance obligations, that are judgmental in nature. In addition, auditing the information technology (IT) systems used to capture accurate and complete information to recognize substantial amounts of the wireless and fixed line service revenues was especially challenging due to the significant volume of data and transactions processed through various systems and the heavy reliance on automated processes and controls over the capture, measurement and recording of transactions.

Audit Response

We obtained an understanding of the PLDT Group's revenue recognition process, involving our IT professionals to assist us in evaluating the design and testing of the effectiveness of controls around the capture, measurement and recording of wireless and fixed line revenues. For example, we evaluated the design and tested the operating effectiveness of controls around access rights, system development, program changes and IT dependent business controls to establish that changes to the system were appropriately authorized, developed, and implemented including those over: set-up of customer accounts, pricing data, segregation of duties and the linkage to usage data that drives revenue recognition.

To test revenue recognition, among other procedures, we compared the customer billing data to the details in the billing systems for wireless and fixed line postpaid revenues on a sample basis. We also tested the recognition of revenue based on actual usage and inspected the reconciliation of the ending balance of unearned income for wireless prepaid revenues between the subledger and the general ledger. In addition, we obtained a sample of contracts and (a) assessed whether performance obligations within the contracts with customers have been identified (b) tested the allocation of the transaction price to the performance obligations (c) evaluated management's estimate and underlying assumptions on the standalone selling price for each performance obligation included within the sample of contracts to available published market prices and (d) assessed the PLDT Group's timing of revenue recognition based on when the performance occurs and control of the related goods or services is transferred to the customer. We also assessed the adequacy of the Group's disclosures in respect to the accounting policies on revenue recognition.

Valuation of pension assets

At December 31, 2019, the Group has pension assets amounting to Php16,808 million that are netted against accrued pension benefit obligations. As explained in Notes 3 and 26 to the consolidated financial statements, the Company updates the estimates used to measure the unquoted investments of Php10,815 million within the plan assets every year-end to reflect the actual return on plan assets.



Auditing the valuation of the pension assets was complex due to the significant and judgmental nature of the assumptions used in the discounted cash flow model to measure the fair value of the significant unquoted equity investments included in the plan assets. These significant assumptions included revenue growth rate, direct costs, capital expenditure, discount rate and terminal growth rate as inputs.

Audit Response

We obtained an understanding of the process, assessed the design and tested controls that address the risks of material misstatement relating to the valuation of the plan assets. For example, we tested controls over management's review of the plan asset calculations, including the significant assumptions used in the discounted cash flow model.

To test the valuation of the pension assets, our audit procedures included, among others, evaluating the methodology, the significant assumptions discussed above and the underlying data used by the PLDT Group. We compared the significant assumptions discussed above to historical data, the business plans of the underlying entities, the industry and market outlook and other relevant external data. In addition, we involved our internal specialist to assist us in assessing management's discounted cash flow valuation model and in testing the parameters used in determining the discount rate and long-term growth rate against market data. We also performed sensitivity analyses over the significant assumptions to evaluate the changes in the value of the unquoted investments that would result from changes in the assumptions.

Recoverability of goodwill and indefinite-lived intangible assets

At December 31, 2019, the Group's goodwill attributable to the Wireless and Fixed Line cash-generating units (CGUs) and indefinite-lived intangible assets for the Wireless CGU were Php61,379 million and Php4,505 million, respectively. As discussed in Notes 3 and 15 to the consolidated financial statements, goodwill and indefinite-lived intangible assets are tested for impairment at least annually at the corresponding CGUs respectively.

Auditing management's annual goodwill and indefinite-lived intangible assets impairment test was complex due to the significant judgement required to determine the fair value of the CGUs and sensitivity of the fair value estimate to the significant assumptions, such as revenue growth rate, capital expenditures, discount rate and the long-term growth rate. These assumptions were based on management's expectation about future market conditions which includes inherent uncertainty.

Audit Response

We obtained an understanding, evaluated the design and tested the operating effectiveness of controls over the Group's goodwill and intangible assets impairment review process, including controls over management's review of the significant assumptions described above.

To test the estimated recoverable value of the Group's reporting units, we performed audit procedures that included, among others, assessing methodologies and testing the significant assumptions discussed above and the underlying data used by the Group in its analysis. We compared the significant assumptions used by management to current industry and economic trends and evaluated whether changes to the Group's business model, product mix and other factors would affect the significant assumptions. In addition, we involved our internal specialist to assist us in assessing management's discounted cash flow valuation model and in testing the parameters used in determining the discount rate and long-term growth rate against market data. We assessed whether there were any potential sources of contrary information,



including historical forecast accuracy, and performed sensitivity analyses over the significant assumptions to evaluate the changes in the recoverable value that would result from changes in the assumptions.

Estimating useful lives of property and equipment

At December 31, 2019, the Group's property and equipment was Php232,134 million. As explained in Notes 3 and 9 to the consolidated financial statements, the Group reviews its estimates of useful lives annually or as and when needed if expectations differ from previous estimates due to changes in expectation of physical wear and tear, technical or commercial obsolescence and legal or other limitations on the continuing use of the assets.

Auditing the Group's estimated useful lives of property and equipment was complex and required significant judgment because the determination of the estimated useful lives considers a number of factors and assumptions including the collective assessment of industry practice, internal technical evaluation and experience with similar assets.

Audit Response

We obtained an understanding, evaluated the design and tested the operating effectiveness of internal controls over the Group's process of estimating the useful lives of property and equipment. For example, we tested controls over management's assessment which includes consideration for industry data and practice, market outlook and other relevant data. To test whether the estimated useful life of property and equipment used by management was reasonable, our audit procedures included, among others, obtaining an understanding of the Group's technology roadmap plan and strategy related to asset replacement and assessing the reasonableness by considering external sources such as telecommunication technology growth, changes in market demand and current economic and market outlooks. We assessed whether there were any potential sources of contrary information by performing benchmarking analysis on the estimated useful lives of property and equipment against other public companies within the telecommunication industry. We also performed physical inspections of property and equipment.

Other Information

Management is responsible for the other information. The other information comprises the SEC Form 17-A for the year ended December 31, 2019, but does not include the consolidated financial statements and our auditor's report thereon, which we obtained prior to the date of this auditor's report, and the SEC Form 20-IS (Definitive Information Statement) and the Annual Report for the year ended December 31, 2019, which are expected to be made available to us after that date.

Our opinion on the consolidated financial statements does not cover the other information and we do not and will not express any form of assurance conclusion thereon.

In connection with our audits of the consolidated financial statements, our responsibility is to read the other information identified above and, in doing so, consider whether the other information is materially inconsistent with the consolidated financial statements or our knowledge obtained in the audits, or otherwise appears to be materially misstated.

If, based on the work we have performed on the other information that we obtained prior to the date of this auditor's report, we conclude that there is a material misstatement of this other information, we are required to report that fact. We have nothing to report in this regard.



Responsibilities of Management and Those Charged with Governance for the Consolidated Financial Statements

Management is responsible for the preparation and fair presentation of the consolidated financial statements in accordance with PFRSs, and for such internal control as management determines is necessary to enable the preparation of consolidated financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the consolidated financial statements, management is responsible for assessing the PLDT Group's ability to continue as a going concern, disclosing, as applicable, matters related to going concern and using the going concern basis of accounting unless management either intends to liquidate the PLDT Group or to cease operations, or has no realistic alternative but to do so.

Those charged with governance are responsible for overseeing the PLDT Group's financial reporting process.

Auditor's Responsibilities for the Audit of the Consolidated Financial Statements

Our objectives are to obtain reasonable assurance about whether the consolidated financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinion. Reasonable assurance is a high level of assurance, but is not a guarantee that an audit conducted in accordance with PSAs will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of these consolidated financial statements.

As part of an audit in accordance with PSAs, we exercise professional judgment and maintain professional skepticism throughout the audit. We also:

- Identify and assess the risks of material misstatement of the consolidated financial statements, whether due to fraud or error, design and perform audit procedures responsive to those risks, and obtain audit evidence that is sufficient and appropriate to provide a basis for our opinion. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the PLDT Group's internal control.
- Evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by management.
- Conclude on the appropriateness of management's use of the going concern basis of accounting and, based on the audit evidence obtained, whether a material uncertainty exists related to events or conditions that may cast significant doubt on the PLDT Group's ability to continue as a going concern. If we conclude that a material uncertainty exists, we are required to draw attention in our auditor's report to the related disclosures in the consolidated financial statements or, if such disclosures are inadequate, to modify our opinion. Our conclusions are based on the audit evidence obtained up to the date of our auditor's report. However, future events or conditions may cause the PLDT Group to cease to continue as a going concern.



- Evaluate the overall presentation, structure and content of the consolidated financial statements, including the disclosures, and whether the consolidated financial statements represent the underlying transactions and events in a manner that achieves fair presentation.
- Obtain sufficient appropriate audit evidence regarding the financial information of the entities or business activities within the PLDT Group to express an opinion on the consolidated financial statements. We are responsible for the direction, supervision and performance of the audit. We remain solely responsible for our audit opinion.

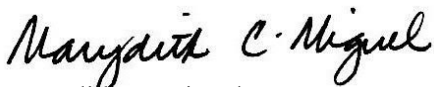
We communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit and significant audit findings, including any significant deficiencies in internal control that we identify during our audit.

We also provide those charged with governance with a statement that we have complied with relevant ethical requirements regarding independence, and to communicate with them all relationships and other matters that may reasonably be thought to bear on our independence, and where applicable, related safeguards.

From the matters communicated with those charged with governance, we determine those matters that were of most significance in the audit of the consolidated financial statements of the current period and are therefore the key audit matters. We describe these matters in our auditor's report unless law or regulation precludes public disclosure about the matter or when, in extremely rare circumstances, we determine that a matter should not be communicated in our report because the adverse consequences of doing so would reasonably be expected to outweigh the public interest benefits of such communication.

The engagement partner on the audit resulting in this independent auditor's report is Marydith C. Miguel.

SYCIP GORRES VELAYO & CO.



Marydith C. Miguel

Partner

CPA Certificate No. 65556

SEC Accreditation No. 0087-AR-5 (Group A),
January 10, 2019, valid until January 9, 2022

Tax Identification No. 102-092-270

BIR Accreditation No. 08-001998-55-2018,
February 26, 2018, valid until February 25, 2021

PTR No. 8125270, January 7, 2020, Makati City

March 31, 2020





PLDT INC. AND SUBSIDIARIES

CONSOLIDATED FINANCIAL STATEMENTS

**AS AT DECEMBER 31, 2019 AND 2018
AND FOR THE YEARS ENDED DECEMBER 31, 2019, 2018 AND 2017**

AND

INDEPENDENT AUDITOR'S REPORT

PLDT INC. AND SUBSIDIARIES

CONSOLIDATED STATEMENTS OF FINANCIAL POSITION

As at December 31, 2019 and 2018

(in million pesos)

	2019	2018
ASSETS		
Noncurrent Assets		
Property and equipment (Notes 9 and 22)	232,134	195,964
Right-of-use assets (Note 10)	15,890	—
Investments in associates and joint ventures (Note 11)	53,863	55,427
Financial assets at fair value through profit or loss (Note 12)	3,369	4,763
Debt instruments at amortized cost – net of current portion (Note 13)	—	150
Investment properties (Notes 6 and 14)	778	777
Goodwill and intangible assets (Note 15)	67,825	68,583
Deferred income tax assets – net (Note 7)	23,623	27,697
Derivative financial assets – net of current portion (Note 28)	1	140
Prepayments – net of current portion (Notes 19 and 25)	48,933	23,338
Financial assets at fair value through other comprehensive income – net of current portion (Notes 6, 11 and 25)	162	2,749
Contract assets – net of current portion (Note 5)	750	1,083
Other financial assets – net of current portion (Note 28)	1,986	2,275
Other non-financial assets – net of current portion	136	230
Total Noncurrent Assets	449,450	383,176
Current Assets		
Cash and cash equivalents (Note 16)	24,369	51,654
Short-term investments (Note 28)	314	1,165
Trade and other receivables (Note 17)	22,436	24,056
Inventories and supplies (Note 18)	3,412	2,878
Current portion of contract assets (Note 5)	1,997	2,185
Current portion of derivative financial assets (Note 28)	41	183
Current portion of debt instruments at amortized cost (Note 13)	150	—
Current portion of prepayments (Note 19)	11,298	8,380
Current portion of financial assets at fair value through other comprehensive income (Notes 6, 11 and 25)	2,757	1,604
Current portion of other financial assets (Notes 20 and 28)	8,086	7,008
Current portion of other non-financial assets	717	461
Total Current Assets	75,577	99,574
TOTAL ASSETS	525,027	482,750
EQUITY AND LIABILITIES		
Equity		
Non-voting serial preferred stock (Note 20)	360	360
Voting preferred stock (Note 20)	150	150
Common stock (Note 20)	1,093	1,093
Treasury stock (Note 20)	(6,505)	(6,505)
Treasury shares under employee benefit trust (Note 26)	(394)	(854)
Capital in excess of par value (Note 20)	130,312	130,526
Other equity reserves (Note 26)	276	697
Retained earnings (Note 20)	18,063	12,081
Other comprehensive loss (Note 6)	(31,368)	(25,190)
Total Equity Attributable to Equity Holders of PLDT (Note 28)	111,987	112,358
Noncontrolling interests (Note 6)	4,303	4,308
TOTAL EQUITY	116,290	116,666

See accompanying Notes to Consolidated Financial Statements.

PLDT INC. AND SUBSIDIARIES

CONSOLIDATED STATEMENTS OF FINANCIAL POSITION (continued)

As at December 31, 2019 and 2018

(in million pesos)

	2019	2018
Noncurrent Liabilities		
Interest-bearing financial liabilities – net of current portion (Notes 21 and 28)	172,834	155,835
Lease liabilities – net of current portion (Note 10)	13,100	—
Deferred income tax liabilities (Note 7)	2,583	2,981
Derivative financial liabilities – net of current portion (Note 28)	25	—
Customers’ deposits (Note 28)	2,205	2,194
Pension and other employee benefits (Note 26)	8,985	7,182
Deferred credits and other noncurrent liabilities (Note 22)	4,557	5,284
Total Noncurrent Liabilities	204,289	173,476
Current Liabilities		
Accounts payable (Note 23)	77,845	74,610
Accrued expenses and other current liabilities (Notes 24 and 27)	100,815	95,724
Current portion of interest-bearing financial liabilities (Notes 21 and 28)	19,722	20,441
Current portion of lease liabilities (Note 10)	3,215	—
Dividends payable (Note 20)	1,584	1,533
Current portion of derivative financial liabilities (Note 28)	88	80
Income tax payable	1,179	220
Total Current Liabilities	204,448	192,608
TOTAL LIABILITIES	408,737	366,084
TOTAL EQUITY AND LIABILITIES	525,027	482,750

See accompanying Notes to Consolidated Financial Statements.

PLDT INC. AND SUBSIDIARIES

CONSOLIDATED INCOME STATEMENTS

For the Years Ended December 31, 2019, 2018 and 2017

(in million pesos, except earnings per common share amounts which are in pesos)

	2019	2018	2017
REVENUES			
Service revenues (Note 5)*	161,355	152,369	150,172
Non-service revenues (Note 5)	7,832	10,545	8,761
	169,187	162,914	158,933
EXPENSES			
Selling, general and administrative expenses (Note 5)	68,230	73,916	68,990
Depreciation and amortization (Notes 9 and 10)	39,656	47,240	51,915
Cost of sales and services (Note 5)	13,429	14,427	13,633
Asset impairment (Note 5)	4,833	8,065	8,258
Interconnection costs*	3,638	5,493	6,626
	129,786	149,141	149,422
	39,401	13,773	9,511
OTHER INCOME (EXPENSES) – NET (Note 5)	(7,065)	9,042	5,058
INCOME BEFORE INCOME TAX	32,336	22,815	14,569
PROVISION FOR INCOME TAX (Note 7)	9,550	3,842	1,103
NET INCOME	22,786	18,973	13,466
ATTRIBUTABLE TO:			
Equity holders of PLDT (Note 8)	22,521	18,916	13,371
Noncontrolling interests	265	57	95
	22,786	18,973	13,466
Earnings Per Share Attributable to Common Equity Holders of PLDT (Note 8)			
Basic	103.97	87.28	61.61
Diluted	103.97	87.28	61.61

For the years ended December 31, 2019 and 2018, the total service and non-service revenues pertains to revenue from contracts with customers.

** Certain amounts in 2018 and 2017 were adjusted to reflect the effects of matters discussed in Note 5 – Income and Expenses – Adjustments.*

See accompanying Notes to Consolidated Financial Statements.

PLDT INC. AND SUBSIDIARIES

CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME

For the Years Ended December 31, 2019, 2018 and 2017

(in million pesos)

	2019	2018	2017
NET INCOME	22,786	18,973	13,466
OTHER COMPREHENSIVE INCOME (LOSS) – NET OF TAX			
(Note 6)			
Fair value changes of financial assets at fair value through other comprehensive income (loss) (Note 25)	127	(29)	—
Foreign currency translation differences of subsidiaries	23	117	(18)
Net transactions on cash flow hedges:	(256)	(271)	(376)
Net fair value losses on cash flow hedges (Note 28)	(330)	(286)	(411)
Income tax related to fair value adjustments charged directly to equity (Note 7)	74	15	35
Net gains on available-for-sale financial investments:	—	—	3,364
Unrealized gains from changes in fair value adjustments recognized during the year (Note 12)	—	—	2,826
Impairment recognized in profit or loss	—	—	540
Income tax related to fair value adjustments charged directly to equity (Note 7)	—	—	(2)
Share in the other comprehensive income of associates and joint ventures accounted for using the equity method (Note 11)	—	—	112
Net other comprehensive income (loss) to be reclassified to profit or loss in subsequent years	(106)	(183)	3,082
Revaluation increment on investment properties:	(2)	(2)	1
Depreciation of revaluation increment in investment properties transferred to property and equipment (Note 9)	(3)	(2)	(2)
Income tax related to revaluation increment charged directly to equity (Note 7)	1	—	(1)
Fair value adjustment to property and equipment transferred to investment properties during the year	—	—	4
Actuarial losses on defined benefit obligations:	(6,074)	(1,222)	(1,091)
Remeasurement in actuarial losses on defined benefit obligations (Note 26)	(8,672)	(1,788)	(1,566)
Income tax related to remeasurement adjustments (Note 7)	2,598	566	475
Share in the other comprehensive income of associates and joint ventures accounted for using the equity method (Note 11)	—	—	194
Net other comprehensive loss not to be reclassified to profit or loss in subsequent years	(6,076)	(1,224)	(896)
Total Other Comprehensive Income (Loss) – Net of Tax	(6,182)	(1,407)	2,186
TOTAL COMPREHENSIVE INCOME	16,604	17,566	15,652
ATTRIBUTABLE TO:			
Equity holders of PLDT	16,343	17,504	15,550
Noncontrolling interests	261	62	102
	16,604	17,566	15,652

See accompanying Notes to Consolidated Financial Statements.

PLDT INC. AND SUBSIDIARIES
CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY
For the Years Ended December 31, 2019, 2018 and 2017
(in million pesos)

	Preferred Stock	Common Stock	Treasury Stock	Treasury Shares under Employee Benefit Trust	Capital in Excess of Par Value	Other Equity Reserves	Retained Earnings	Other Comprehensive (Loss)	Total Equity Attributable to Equity Holders of PLDT	Noncontrolling Interests	Total Equity
Balances as at January 1, 2019 (as previously stated)	510	1,093	(6,505)	(854)	130,526	697	12,081	(25,190)	112,358	4,308	116,666
Effect of adoption of PFRS 16 (Note 2)	—	—	—	—	—	—	(924)	—	(924)	—	(924)
Balances as at January 1, 2019 (as restated)	510	1,093	(6,505)	(854)	130,526	697	11,157	(25,190)	111,434	4,308	115,742
Treasury shares under employee benefit trust (Note 26)	—	—	—	460	(130)	—	—	—	330	—	330
Other equity reserves (Note 26)	—	—	—	—	—	(421)	—	—	(421)	—	(421)
Cash dividends (Note 20)	—	—	—	—	—	—	(15,615)	—	(15,615)	(15)	(15,630)
Total comprehensive income (loss):	—	—	—	—	—	—	22,521	(6,178)	16,343	261	16,604
Net income (Note 8)	—	—	—	—	—	—	22,521	—	22,521	265	22,786
Other comprehensive loss (Note 6)	—	—	—	—	—	—	—	(6,178)	(6,178)	(4)	(6,182)
Distribution charges on perpetual notes (Note 20)	—	—	—	—	—	—	—	—	—	(236)	(236)
Acquisition and dilution of noncontrolling interests	—	—	—	—	(84)	—	—	—	(84)	(15)	(99)
Balances as at December 31, 2019	510	1,093	(6,505)	(394)	130,312	276	18,063	(31,368)	111,987	4,303	116,290
Balances as at January 1, 2018 (as previously stated)	510	1,093	(6,505)	(940)	130,374	827	634	(19,151)	106,842	4,341	111,183
Effect of adoption of PFRS 9 (Note 2)	—	—	—	—	—	—	4,101	(4,627)	(526)	—	(526)
Effect of adoption of PFRS 15 (Note 2)	—	—	—	—	—	—	2,553	—	2,553	—	2,553
Balances as at January 1, 2018 (as restated)	510	1,093	(6,505)	(940)	130,374	827	7,288	(23,778)	108,869	4,341	113,210
Treasury shares under employee benefit trust (Note 26)	—	—	—	86	—	—	—	—	86	—	86
Other equity reserves (Note 26)	—	—	—	—	—	(130)	—	—	(130)	—	(130)
Cash dividends (Note 20)	—	—	—	—	—	—	(13,887)	—	(13,887)	(15)	(13,902)
Total comprehensive income (loss):	—	—	—	—	—	—	18,916	(1,412)	17,504	62	17,566
Net income (Note 8)	—	—	—	—	—	—	18,916	—	18,916	57	18,973
Other comprehensive income (loss) (Note 6)	—	—	—	—	—	—	—	(1,412)	(1,412)	5	(1,407)
Distribution charges on perpetual notes (Note 20)	—	—	—	—	—	—	(236)	—	(236)	—	(236)
Acquisition and dilution of noncontrolling interests	—	—	—	—	152	—	—	—	152	(80)	72
Balances as at December 31, 2018	510	1,093	(6,505)	(854)	130,526	697	12,081	(25,190)	112,358	4,308	116,666
Balances as at January 1, 2017	510	1,093	(6,505)	—	130,488	—	3,483	(20,894)	108,175	362	108,537
Treasury shares under employee benefit trust (Note 26)	—	—	—	(940)	—	—	—	—	(940)	—	(940)
Other equity reserves (Note 26)	—	—	—	—	—	827	—	—	827	—	827
Cash dividends (Note 20)	—	—	—	—	—	—	(16,479)	—	(16,479)	(66)	(16,545)
Total comprehensive income:	—	—	—	—	—	—	13,807	1,743	15,550	102	15,652
Net income (Note 8)	—	—	—	—	—	—	13,371	—	13,371	95	13,466
Other comprehensive income (Note 6)	—	—	—	—	—	—	436	1,743	2,179	7	2,186
Perpetual notes (Note 20)	—	—	—	—	—	—	—	—	—	4,165	4,165
Distribution charges on perpetual notes (Note 20)	—	—	—	—	—	—	(177)	—	(177)	—	(177)
Acquisition and dilution of noncontrolling interests	—	—	—	—	(114)	—	—	—	(114)	(222)	(336)
Balances as at December 31, 2017	510	1,093	(6,505)	(940)	130,374	827	634	(19,151)	106,842	4,341	111,183

See accompanying Notes to Consolidated Financial Statements.

PLDT INC. AND SUBSIDIARIES

CONSOLIDATED STATEMENTS OF CASH FLOWS
For the Years Ended December 31, 2019, 2018 and 2017
(in million pesos)

	2019	2018	2017
CASH FLOWS FROM OPERATING ACTIVITIES			
Income before income tax	32,336	22,815	14,569
Adjustments for:			
Depreciation and amortization (Notes 9 and 10)*	39,656	47,240	51,915
Interest on loans and other related items – net (Note 5)	7,275	6,783	7,014
Asset impairment (Note 5)	4,833	8,065	8,258
Equity share in net losses (earnings) of associates and joint ventures (Notes 5 and 11)	1,535	87	(2,906)
Accretion on lease liabilities (Notes 5 and 10)	1,061	—	—
Pension benefit costs (Notes 5 and 26)	1,018	1,855	1,607
Amortization of intangible assets (Notes 5 and 15)	758	892	835
Incentive plan (Notes 5 and 26)	638	208	827
Losses (gains) on derivative financial instruments – net (Notes 5 and 28)	284	(1,086)	(533)
Accretion on financial liabilities (Notes 5 and 21)	122	145	219
Losses (gains) on disposal of property and equipment (Note 9)	88	(12)	159
Impairment of investments (Note 11)	34	172	2,562
Foreign exchange losses (gains) – net (Notes 5 and 9)	(424)	771	411
Interest income (Note 5)	(1,745)	(1,943)	(1,412)
Gains on disposal of investments in subsidiaries – net (Note 11)	—	(144)	—
Gains on deconsolidation of subsidiary (Notes 5 and 11)	—	(12,054)	—
Gains on disposal of investment property (Note 14)	—	—	(80)
Gains on disposal of investments in associates – net (Note 11)	—	—	(6,512)
Others	696	(1,076)	(2,443)
Operating income before changes in assets and liabilities	88,165	72,718	74,490
Decrease (increase) in:			
Prepayments	(28,898)	(4,318)	(212)
Other financial and non-financial assets	(198)	—	162
Trade and other receivables	(1,560)	(12,175)	(10,674)
Inventories and supplies	12	26	(542)
Contract assets	337	390	—
Increase (decrease) in:			
Customers' deposits	12	(250)	13
Pension and other employee benefits	(7,965)	(5,733)	(5,841)
Other noncurrent liabilities	(1,559)	(11)	38
Accounts payable	18,768	7,729	4,622
Accrued expenses and other current liabilities	4,375	5,184	(1,392)
Net cash flows generated from operations	71,489	63,560	60,664
Income taxes paid	(2,097)	(2,444)	(4,550)
Net cash flows from operating activities	69,392	61,116	56,114

* For 2019, this includes the depreciation or amortization of right-of-use assets.
See accompanying Notes to Consolidated Financial Statements.

PLDT INC. AND SUBSIDIARIES

CONSOLIDATED STATEMENTS OF CASH FLOWS (continued)
For the Years Ended December 31, 2019, 2018 and 2017
(in million pesos)

	2019	2018	2017
CASH FLOWS USED IN INVESTING ACTIVITIES			
Interest received	1,723	1,115	1,217
Proceeds from:			
Collection of notes receivable	1,771	11,707	2,001
Maturity of short-term investments	1,415	6,102	20,254
Disposal of financial assets at fair value through profit or loss (Note 12)	1,023	11,643	—
Disposal of property and equipment (Note 9)	224	345	484
Disposal of investment properties (Note 14)	11	—	290
Disposal of investments in associates and joint ventures (Note 11)	—	1,710	14,884
Redemption of investment in debt securities	—	105	456
Disposal of investments available-for-sale	—	—	1,000
Dividends received (Note 11)	—	—	833
Payments for:			
Acquisition of investments in associates and joint ventures (Note 11)	(20)	(111)	(5,633)
Acquisition of investments in subsidiaries – net of cash acquired	(80)	(2,814)	(266)
Purchase of short-term investments	(572)	(5,992)	(18,424)
Interest capitalized to property and equipment (Notes 5 and 9)	(1,455)	(1,524)	(816)
Purchase of property and equipment (Note 9)	(88,246)	(47,247)	(36,616)
Acquisition of intangible assets (Note 15)	—	(21)	(137)
Purchase of investments available-for-sale	—	—	(76)
Net additions to right-of-use assets (Note 10)	(145)	—	—
Decrease (increase) in other financial and non-financial assets	35	(72)	(511)
Net cash flows used in investing activities	(84,316)	(25,054)	(21,060)
CASH FLOWS USED IN FINANCING ACTIVITIES			
Proceeds from:			
Availments of long-term debt (Notes 21 and 29)	37,500	20,500	26,255
Derivative financial instruments (Notes 28 and 29)	—	886	218
Issuance of perpetual notes (Note 20)	—	—	4,165
Payments for:			
Derivative financial instruments (Notes 28 and 29)	(50)	—	—
Debt issuance costs (Notes 21 and 29)	(195)	(38)	(153)
Distribution charges on perpetual notes (Note 20)	(236)	(236)	(177)
Obligations under lease liabilities (Notes 10 and 29)	(5,399)	—	—
Interest – net of capitalized portion (Notes 5, 21 and 29)	(7,143)	(6,614)	(7,076)
Cash dividends (Notes 20 and 29)	(15,592)	(13,928)	(16,617)
Long-term debt (Notes 21 and 29)	(20,494)	(18,740)	(39,199)
Long-term financing for capital expenditures (Note 29)	—	—	(7,735)
Decrease (increase) in treasury shares under employee benefit trust	(4)	26	—
Net cash flows used in financing activities	(11,613)	(18,144)	(40,319)
NET EFFECT OF FOREIGN EXCHANGE RATE CHANGES ON CASH AND CASH EQUIVALENTS	(748)	831	(552)
NET INCREASE (DECREASE) IN CASH AND CASH EQUIVALENTS	(27,285)	18,749	(5,817)
CASH AND CASH EQUIVALENTS AT BEGINNING OF THE YEAR (Note 16)	51,654	32,905	38,722
CASH AND CASH EQUIVALENTS AT END OF THE YEAR (Note 16)	24,369	51,654	32,905

See accompanying Notes to Consolidated Financial Statements.

PLDT INC. AND SUBSIDIARIES
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

1. Corporate Information

PLDT Inc. (formerly Philippine Long Distance Telephone Company), which we refer to as PLDT or the Parent Company, was incorporated under the old Corporation Law of the Philippines (Act 1459, as amended) on November 28, 1928, following the merger of four telephone companies under common U.S. ownership. Under its amended Articles of Incorporation, PLDT's corporate term is currently limited through 2028. In 1967, effective control of PLDT was sold by the General Telephone and Electronics Corporation, then a major shareholder since PLDT's incorporation, to a group of Filipino businessmen. In 1981, in furtherance of the then existing policy of the Philippine government to integrate the Philippine telecommunications industry, PLDT purchased substantially all of the assets and liabilities of the Republic Telephone Company, which at that time was the second largest telephone company in the Philippines. In 1998, certain subsidiaries of First Pacific Company Limited, or First Pacific, and its Philippine affiliates (collectively the First Pacific Group and its Philippine affiliates), acquired a significant interest in PLDT. On March 24, 2000, NTT Communications Corporation, or NTT Communications, through its wholly-owned subsidiary NTT Communications Capital (UK) Ltd., became PLDT's strategic partner with approximately 15% economic and voting interest in the issued and outstanding common stock of PLDT at that time. Simultaneous with NTT Communications' investment in PLDT, the latter acquired 100% of Smart Communications, Inc., or Smart. On March 14, 2006, NTT DOCOMO, Inc., or NTT DOCOMO, acquired from NTT Communications approximately 7% of PLDT's then outstanding common shares held by NTT Communications with NTT Communications retaining ownership of approximately 7% of PLDT's common shares. Since March 14, 2006, NTT DOCOMO has made additional purchases of shares of PLDT, and together with NTT Communications, beneficially owned approximately 20% of PLDT's outstanding common stock as at December 31, 2019. NTT Communications and NTT DOCOMO are subsidiaries of NTT Holding Company. On February 28, 2007, Metro Pacific Asset Holdings, Inc., a Philippine affiliate of First Pacific, completed the acquisition of an approximately 46% interest in Philippine Telecommunications Investment Corporation, or PTIC, a shareholder of PLDT. This investment in PTIC represented an attributable interest of approximately 6% of the then outstanding common shares of PLDT and thereby raised First Pacific Group's and its Philippine affiliates' beneficial ownership to approximately 28% of PLDT's outstanding common stock as at that date. Since then, First Pacific Group's beneficial ownership interest in PLDT decreased by approximately 2%, mainly due to the holders of Exchangeable Notes, which were issued in 2005 by a subsidiary of First Pacific and exchangeable into PLDT shares owned by First Pacific Group, who fully exchanged their notes. First Pacific Group and its Philippine affiliates had beneficial ownership of approximately 26% in PLDT's outstanding common stock as at December 31, 2019. On October 26, 2011, PLDT completed the acquisition of a controlling interest in Digital Telecommunications Phils., Inc., or Digitel, from JG Summit Holdings, Inc., or JGSHI, and its affiliates, or JG Summit Group. As payment for the assets acquired from JGSHI, PLDT issued approximately 27.7 million common shares. In November 2011, JGSHI sold 5.81 million and 4.56 million PLDT shares to a Philippine affiliate of First Pacific and NTT DOCOMO, respectively, pursuant to separate option agreements that JGSHI had entered into with a Philippine affiliate of First Pacific and NTT DOCOMO, respectively. As at December 31, 2019, the JG Summit Group beneficially owned approximately 8% of PLDT's outstanding common shares.

On October 16, 2012, BTF Holdings, Inc., or BTFHI, a wholly-owned company of the Board of Trustees for the Account of the Beneficial Trust Fund, or PLDT Beneficial Trust Fund, created pursuant to PLDT's Benefit Plan, subscribed to 150 million newly issued shares of Voting Preferred Stock of PLDT, or Voting Preferred Shares, at a subscription price of Php1.00 per share for a total subscription price of Php150 million pursuant to a subscription agreement between BTFHI and PLDT dated October 15, 2012. As a result of the issuance of Voting Preferred Shares, the voting power of the NTT Group (NTT DOCOMO and NTT Communications), First Pacific Group and its Philippine affiliates, and JG Summit Group was reduced to 12%, 15% and 5%, respectively, as at December 31, 2019. See *Note 20 – Equity – Preferred Stock – Voting Preferred Stock* and *Note 27 – Provisions and Contingencies – In the Matter of the Wilson Gamboa Case and Jose M. Roy III Petition*.

The common shares of PLDT are listed and traded on the Philippine Stock Exchange, Inc., or PSE. On October 19, 1994, an American Depositary Receipt, or ADR, facility was established, pursuant to which Citibank N.A., as the depository, issued American Depositary Shares, or ADSs, with each ADS representing one PLDT common share with a par value of Php5.00 per share. Effective February 10, 2003, PLDT appointed JP Morgan Chase Bank as successor depository for PLDT's ADR facility. The ADSs are listed on the New York Stock Exchange, or NYSE, in the United States and are traded on the NYSE under the symbol "PHI". There were approximately 26.9 million ADSs outstanding as at December 31, 2019.

PLDT and our Philippine-based fixed line and wireless subsidiaries operate under the jurisdiction of the Philippine National Telecommunications Commission, or NTC, which jurisdiction extends, among other things, to approving major services offered and certain rates charged to customers.

We are the largest and most diversified telecommunications company in the Philippines which delivers data and multi-media services nationwide. We have organized our business into business units based on our products and services and have three reportable operating segments which serve as the bases for management's decision to allocate resources and evaluate operating performance. Our principal activities are discussed in *Note 4 – Operating Segment Information*.

Our registered office address is Ramon Cojuangco Building, Makati Avenue, Makati City, Philippines. Information on our structure is provided in *Note 2 – Summary of Significant Accounting Policies – Basis of Consolidation*. Information on other related party relationships of the PLDT Group is provided in *Note 25 – Related Party Transactions*.

Our consolidated financial statements as at December 31, 2019 and 2018, and for the years ended December 31, 2019, 2018 and 2017 were approved and authorized for issuance by the Audit Committee on March 31, 2020, exercising the authority delegated to it by the Board of Directors on March 5, 2020.

2. Summary of Significant Accounting Policies

Basis of Preparation

Our consolidated financial statements have been prepared in accordance with Philippine Financial Reporting Standards, or PFRSs, as issued by the Philippine Financial Reporting Standards Council, or FRSC.

Our consolidated financial statements have been prepared under the historical cost basis, except for financial instruments at fair value through profit or loss, or FVPL, financial instruments at fair value through other comprehensive income, or FVOCI, and investment properties that are measured at fair values.

Our consolidated financial statements are presented in Philippine Peso, PLDT's functional currency, and all values are rounded to the nearest million, except when otherwise indicated.

Our consolidated financial statements provide comparative information in respect of the previous period.

Basis of Consolidation

Our consolidated financial statements include the financial statements of PLDT and the following subsidiaries (collectively, the “PLDT Group”) as at December 31, 2019 and 2018:

Name of Subsidiary	Place of Incorporation	Principal Business Activity	2019		2018	
			Percentage of Ownership		Direct	Indirect
			Direct	Indirect	Direct	Indirect
Wireless						
Smart:	Philippines	Cellular mobile services	100.0	—	100.0	—
Smart Broadband, Inc., or SBI, and Subsidiary	Philippines	Internet broadband distribution services	—	100.0	—	100.0
Primeworld Digital Systems, Inc., or PDSI	Philippines	Internet broadband distribution services	—	100.0	—	100.0
I-Contacts Corporation	Philippines	Operations support servicing business	—	100.0	—	100.0
Smart Money Holdings Corporation, or SMHC ^(a)	Cayman Islands	Investment company	—	100.0	—	100.0
Far East Capital Limited, or FECL, and Subsidiary, or FECL Group ^(a)	Cayman Islands	Cost effective offshore financing and risk management activities for Smart	—	100.0	—	100.0
PH Communications Holdings Corporation, or PHC	Philippines	Investment company	—	100.0	—	100.0
Connectivity Unlimited Resource Enterprise, or CURE	Philippines	Cellular mobile services	—	100.0	—	100.0
Francom Holdings, Inc., or FHI:	Philippines	Investment company	—	100.0	—	100.0
Chikka Holdings Limited, or Chikka, and Subsidiaries, or Chikka Group ^(a)	British Virgin Islands	Content provider, mobile applications development and services	—	100.0	—	100.0
Wifun, Inc., or Wifun	Philippines	Software developer and selling of WiFi access equipment	—	100.0	—	100.0
Telesat, Inc. ^(a)	Philippines	Satellite communications services	100.0	—	100.0	—
ACeS Philippines Cellular Satellite Corporation, or ACeS Philippines	Philippines	Satellite information and messaging services	88.5	11.5	88.5	11.5
Digitel Mobile Philippines, Inc., or DMPI, (a wholly-owned subsidiary of Digitel)	Philippines	Cellular mobile services	—	99.6	—	99.6
Fixed Line						
PLDT Clark Telecom, Inc., or ClarkTel	Philippines	Telecommunications services	100.0	—	100.0	—
PLDT Subic Telecom, Inc., or SubicTel	Philippines	Telecommunications services	100.0	—	100.0	—
PLDT Global Corporation, or PLDT Global, and Subsidiaries	British Virgin Islands	Telecommunications services	100.0	—	100.0	—
Smart-NTT Multimedia, Inc. ^(a)	Philippines	Data and network services	100.0	—	100.0	—
PLDT-Philcom, Inc., or Philcom, and Subsidiaries, or Philcom Group	Philippines	Telecommunications services	100.0	—	100.0	—
Talas Data Intelligence, Inc., or Talas	Philippines	Business infrastructure and solutions; intelligent data processing and implementation services and data analytics insight generation	100.0	—	100.0	—
ePLDT, Inc., or ePLDT:	Philippines	Information and communications infrastructure for internet-based services, e-commerce, customer relationship management and IT related services	100.0	—	100.0	—
IP Converge Data Services, Inc., or IPCDSI, and Subsidiary, or IPCDSI Group	Philippines	Information and communications infrastructure for internet-based services, e-commerce, customer relationship management and IT related services	—	100.0	—	100.0
Curo Teknika, Inc., or Curo	Philippines	Managed IT outsourcing	—	100.0	—	100.0
ABM Global Solutions, Inc., or AGS, and Subsidiaries, or AGS Group	Philippines	Internet-based purchasing, IT consulting and professional services	—	100.0	—	100.0
ePDS, Inc., or ePDS	Philippines	Bills printing and other related value-added services, or VAS	—	100.0	—	95.0
netGames, Inc. ^(a)	Philippines	Gaming support services	—	57.5	—	57.5
MVP Rewards Loyalty Solutions, Inc., or MRSL ^(b)	Philippines	Full-services customer rewards and loyalty programs	—	100.0	—	100.0
Digitel:	Philippines	Telecommunications services	99.6	—	99.6	—
Digitel Information Technology Services, Inc. ^(a)	Philippines	Internet services	—	99.6	—	99.6
PLDT-Maratel, Inc., or Maratel	Philippines	Telecommunications services	98.0	—	98.0	—
Bonifacio Communications Corporation, or BCC	Philippines	Telecommunications, infrastructure and related VAS	75.0	—	75.0	—
Pacific Global One Aviation Company, Inc., or PGI	Philippines	Air transportation business	65.0	—	65.0	—
Pilipinas Global Network Limited, or PGNL, and Subsidiaries	British Virgin Islands	Internal distributor of Filipino channels and content	64.6	—	64.6	—

Name of Subsidiary	Place of Incorporation	Principal Business Activity	2019		2018	
			Direct	Indirect	Direct	Indirect
Others						
PLDT Global Investments Holdings, Inc., or PGIH	Philippines	Investment company	100.0	—	100.0	—
PLDT Digital Investments Pte. Ltd., or PLDT Digital, and Subsidiaries	Singapore	Investment company	100.0	—	100.0	—
Mabuhay Investments Corporation, or MIC ^(a)	Philippines	Investment company	67.0	—	67.0	—
PLDT Global Investments Corporation, or PGIC	British Virgin Islands	Investment company	—	100.0	—	100.0
PLDT Communications and Energy Ventures, Inc., or PCEV	Philippines	Investment company	—	99.9	—	99.9

^(a) Ceased commercial operations.

^(b) On September 14, 2018, MRSI was incorporated and ePLDT made an initial investment of Php50 million.

Subsidiaries are fully consolidated from the date of acquisition, being the date on which PLDT obtains control, and continue to be consolidated until the date that such control ceases. We control an investee when we are exposed, or have rights, to variable returns from our involvement with the investee and when we have the ability to affect those returns through our power over the investee.

The financial statements of our subsidiaries are prepared for the same reporting period as PLDT. We prepare our consolidated financial statements using uniform accounting policies for like transactions and other events with similar circumstances.

Profit or loss and each component of other comprehensive income are attributed to the equity holders of PLDT and to the noncontrolling interests, even if this results in the noncontrolling interests having a deficit balance.

Noncontrolling interests share in losses even if the losses exceed the noncontrolling equity interest in the subsidiary.

A change in the ownership interest of a subsidiary, without loss of control, is accounted for as an equity transaction and impact is presented as part of other equity reserves.

If PLDT loses control over a subsidiary, it: (a) derecognizes the assets (including goodwill) and liabilities of the subsidiary; (b) derecognizes the carrying amount of any noncontrolling interest; (c) derecognizes the cumulative translation differences recorded in equity; (d) recognizes the fair value of the consideration received; (e) recognizes the fair value of any investment retained; (f) recognizes any surplus or deficit in profit or loss; and (g) reclassifies the Parent Company's share of components previously recognized in other comprehensive income to profit or loss or retained earnings, as appropriate.

Divestment of CURE

On October 26, 2011, PLDT received the Order issued by the NTC approving the application jointly filed by PLDT and Digitel for the sale and transfer of approximately 51.6% of the outstanding common stock of Digitel to PLDT. The approval of the application was subject to conditions which included the divestment by PLDT of CURE, in accordance with the Divestment Plan, as follows:

- CURE is obligated to sell its *Red Mobile* business to Smart consisting primarily of its subscriber base, brand and fixed assets; and
- Smart is obligated to sell all of its rights and interests in CURE whose remaining assets will consist of its congressional franchise, 10 Megahertz, or MHz, of 3G frequency in the 2100 band and related permits.

In compliance with the commitments in the divestment plan, CURE completed the sale and transfer of its *Red Mobile* business to Smart on June 30, 2012 for a total consideration of Php18 million through a series of transactions, which included: (a) the sale of CURE's *Red Mobile* trademark to Smart; (b) the transfer of CURE's existing *Red Mobile* subscriber base to Smart; and (c) the sale of CURE's fixed assets to Smart at net book value.

In a letter dated July 26, 2012, Smart informed the NTC that it has complied with the terms and conditions of the divestment plan as CURE had rearranged its assets, such that, except for assets necessary to pay off obligations due after June 30, 2012 and certain tax assets, CURE's only remaining assets as at June 30, 2012 were its congressional franchise, the 10 MHz of 3G frequency in the 2100 band and related permits.

In a letter dated September 10, 2012, Smart informed the NTC that the minimum Cost Recovery Amount, or CRA, to enable PLDT to recover its investment in CURE includes, among others, the total cost of equity investments in CURE, advances from Smart for operating requirements, advances from stockholders and associated funding costs. In a letter dated January 21, 2013, the NTC referred the computation of the CRA to the Commissioners of the NTC.

In a letter dated March 5, 2018, PLDT informed the NTC that it is waiving its right to recover any and all cost related to the 10MHz of 3G radio frequency previously assigned to CURE. Accordingly, CURE will not claim any cost associated with it in the event of subsequent assignment by the NTC to another qualified telecommunication company. With the foregoing, PLDT is deemed to have fully complied with its obligation to divest from CURE as a condition to the sale and transfer of Digital shares to PLDT.

In 2018, Smart recognized full impairment of its receivable from CURE, due to uncertainty of collectability, and its investments in PHC and FHI, which holds the 97% and 3% interest in CURE, respectively. These transactions were eliminated in our consolidated financial statements.

Extension of Smart's Congressional Franchise

On April 21, 2017, R.A. No. 10926, which effectively extended Smart's franchise until 2042, was signed into law by the President of the Republic of the Philippines. The law was published in a newspaper of general circulation on May 4, 2017 and took effect on May 19, 2017.

Decrease in Authorized Capital Stock and Amendment of the Articles of Incorporation of MIC

On May 30, 2017, the Board of Directors of MIC approved the (a) reduction of MIC's authorized capital stock from Php2,028 million divided into 20 million shares to Php1,602 million by decreasing the par value per share from Php100.00 to Php79.00, or the Decrease in Capital, and (b) the corresponding amendment to the Seventh Article of the Articles of Incorporation of MIC, or the Amendment of Articles. On the same date, the Decrease in Capital and Amendment of Articles were approved by the stockholders representing at least two thirds of the outstanding shares of MIC. The application for approval of the Decrease in Capital and Amendment of Articles was filed with the Philippine Securities and Exchange Commission, or Philippine SEC, on July 11, 2017 and was approved on December 18, 2017.

Transfer of SBI's Home Broadband Subscription Assets to PLDT

On September 26, 2017, the Board of Directors of PLDT and SBI, a subsidiary providing wireless broadband services, approved the sale and transfer of SBI's trademark and subscribers, and all of SBI's assets, rights and obligations directly or indirectly connected to its HOME Ultera and HOMEBRO Wimax businesses to PLDT. The transfer was effective January 1, 2018. Subscription assets and trademark are amortized over two years and 10 years, respectively, using the straight-line method of accounting.

SBI's businesses are currently being managed by PLDT pursuant to the Operations Maintenance and Management Agreement between PLDT and SBI effective October 1, 2012. Subsequent to the transfer, SBI will continue to provide broadband services to its existing Canopy subscribers using a portion of Smart's network. The transfer is in accordance with the said agreement and in order to achieve the expected benefits, as follows:

- Seamless upgrades of PLDT products;
- Flexibility for business in cross-selling of PLDT products; and
- Enhanced customer experience.

On December 18, 2017, PLDT settled the partial consideration to SBI amounting to Php1,294 million. The remaining balance of Php1,152 million was fully paid on July 31, 2018.

This transaction was eliminated in our consolidated financial statements.

Transfer of iCommerce Pte. Ltd., or iCommerce, to PLDT Online

On December 14, 2017, Voyager Innovations Holdings Pte. Ltd., or VIH, and PLDT Online entered into a Sale and Purchase Agreement whereby VIH sold all of its 10 thousand ordinary shares in iCommerce to PLDT Online for a total purchase price of SG\$1.00. On the same date, VIH assigned its loans receivables from iCommerce to PLDT Online amounting to US\$8.6 million. In consideration, a total of US\$8.9 million, inclusive of interest, was fully paid by PLDT Online to VIH on November 30, 2017.

ePLDT's Additional Investment in ePDS

On March 5, 2018 and August 7, 2018, the Board of Directors of ePLDT approved the additional investment in ePDS amounting to Php134 million and Php66 million, respectively, thereby increasing its equity interest in ePDS from 67% to 95%. On November 7, 2019, ePLDT acquired the 5% minority interest in ePDS for a consideration of Php20 million, thereby increasing its equity interest in ePDS from 95% to 100%. This transaction was eliminated in our consolidated financial statements.

Expiration of Digitel's Legislative Franchise

On February 17, 1994, the Philippine Congress granted a legislative franchise to Digitel under R.A. No. 7678 to install, operate and maintain telecommunications systems throughout the Philippines for public domestic and international telecommunications, and for other purposes. R.A. No. 7678 expired on February 17, 2019 and was not renewed due to the migration of all of its subscribers to PLDT in January 2019. Our management is currently assessing the business direction of Digitel moving forward. PLDT has committed to provide financial support to discharge its liabilities as the need arises.

Decrease in PCEV's Authorized Capital Stock and Par Value of Common Stock

On May 10, 2019 and June 25, 2019, PCEV's Board of Directors and stockholders, respectively, approved the following resolutions and amendments to the articles of incorporation of PCEV: (a) decrease in the par value of common stock; and (b) decrease in the authorized capital stock as follows:

	Prior to Amendments			After Amendments		
	Authorized Capital (Php)	Number of Shares	Par Value (Php)	Authorized Capital (Php)	Number of Shares	Par Value (Php)
	(in millions)			(in millions)		
Common Stock	12,060	1	21,000	4,996	1	8,700
Class I Preferred Stock	67	33	2	67	33	2
Class II Preferred Stock	50	50	1	50	50	1
Total Authorized Capital Stock	12,177	84		5,113	84	

The decrease in PCEV's authorized capital was approved by the Philippine SEC on December 19, 2019. Consequently, the partial return of capital representing their proportionate share in the decrease in par value amounting to Php6,825 million and Php4 million were paid to Smart and PCEV's minority shareholders, respectively. This transaction was eliminated in our consolidated financial statements.

Expiration of Philcom’s Legislative Franchise

Effective September 15, 2019, Philcom ceased to operate as a telecommunications service provider, pursuant to the expiration of its legislative franchise, R.A. 7783. In order to facilitate continued customer service, arrangements have been made between Philcom and PLDT where PLDT would make its services available to the affected Philcom subscribers on voluntary basis. The NTC interposed no objection to the transfer of Philcom’s subscribers to PLDT, subject to certain conditions. Consequently, Philcom and PLDT executed a Deed of Assignment on August 15, 2019 and September 13, 2019 wherein all property and equipment of Philcom, accounts receivable, inventories and subscribers were transferred to PLDT for a total consideration of Php1,760 million and Php319 million, respectively, after complying with the conditions imposed by NTC. PLDT has committed to provide financial support to discharge its liabilities as the need arises. This transaction was eliminated in our consolidated financial statements.

Expiration of SubicTel’s Franchise

Effective January 23, 2020, SubicTel ceased to operate as a telecommunications service provider, pursuant to the expiration of its franchise issued by the Subic Bay Metropolitan Authority, or SBMA. In order to facilitate continued customer service, arrangements have been made between SubicTel and PLDT where PLDT would make its services available to the affected SubicTel subscribers on voluntary basis. The NTC interposed no objection to the transfer of SubicTel’s subscribers to PLDT, subject to certain conditions. Likewise, the SBMA Board approved the issuance of Certificate of Registration to PLDT to operate within SBMA. On September 24, 2019, the PLDT Board of Directors approved the acquisition of the assets and subscribers of SubicTel for a total consideration of Php675 million. PLDT has committed to provide financial support to discharge its liabilities as the need arises. This transaction was eliminated in our consolidated financial statements.

Expiration of Maratel’s Legislative Franchise

Effective April 2020, Maratel will cease to operate as a telecommunications service provider, following the expiration of its legislative franchise, R.A. 7970. In order to ensure continued customer service, Maratel will assign its assets and subscribers, or the “Maratel Subscribers”, to PLDT who undertakes to offer its services to Maratel Subscribers subject to conditions as may be imposed by the NTC. The NTC, has yet to respond to Maratel’s notice to transfer its subscribers to PLDT. On November 7, 2019, the PLDT Board of Directors approved the acquisition of the assets and Maratel Subscribers for a total consideration of Php442 million. PLDT has committed to provide financial support to discharge its liabilities as the need arises. This transaction was eliminated in our consolidated financial statements.

Corona Virus, or COVID-19, Outbreak

In a move to contain the COVID-19 outbreak, on March 12, 2020, the Office of the President of the Philippines issued a Memorandum directive to impose stringent social distancing measures in the National Capital Region effective March 15, 2020. On March 16, 2020, Presidential Proclamation No. 929 was issued, declaring a State of Calamity throughout the Philippines for a period of six months and imposed an Enhanced Community Quarantine throughout the island of Luzon until April 12, 2020, unless earlier lifted or extended as circumstances may warrant. On March 25, 2020, Republic Act No. 11469, otherwise known as the “Bayanihan to Heal as One Act” was signed into law declaring a state of national emergency over the entire country, and the President is authorized to exercise certain powers necessary to address the COVID-19 pandemic. These measures have caused disruption to businesses and economic activities, and its impacts on businesses continue to evolve.

We consider the events surrounding the outbreak as non-adjusting subsequent events which do not impact our financial position and performance as at and for the year ended December 31, 2019. However, the outbreak could have a material impact on our 2020 financial results and even the periods thereafter. Considering the evolving nature of the outbreak, we cannot determine at this time the impact to our financial position, performance and cash flows. We will continue to monitor the situation.

New and Amended Standards and Interpretations

The accounting policies adopted are consistent with those of the previous financial year, except that we have adopted the following new and amended standards and interpretations starting January 1, 2019. Except for the adoption of PFRS 16, *Leases*, the adoption of these new and amended standards and interpretations did not have significant impact on our financial position or performance.

1. Amendments to PFRS 9, *Financial Instruments, Prepayment Features with Negative Compensation*
2. Amendments to Philippine Accounting Standard, or PAS, 19, *Employee Benefits, Plan Amendment, Curtailment or Settlement*
3. Amendments to PAS 28, *Investments in Associates and Joint Ventures, Long-term Interests in Associates and Joint Ventures*
4. Annual Improvements to PFRSs 2015-2017 Cycle
 - Amendments to PFRS 3, *Business Combinations*, and PFRS 11, *Joint Arrangements, Previously Held Interest in a Joint Operation*
 - Amendments to PAS 12, *Income Taxes, Income Tax Consequences of Payments on Financial Instruments Classified as Equity*
 - Amendments to PAS 23, *Borrowing Costs, Borrowing Costs Eligible for Capitalization*
5. Philippine Interpretation to International Financial Reporting Interpretations Committee, or IFRIC, 23, *Uncertainty over Income Tax Treatments*

This Interpretation addresses the accounting for income taxes when tax treatments involve uncertainty that affects the application of PAS 12, *Income Taxes*. It does not apply to taxes or levies outside the scope of PAS 12, nor does it specifically include requirements relating to interest and penalties associated with uncertain tax treatments. The Interpretation specifically addresses the following:

- Whether an entity considers uncertain tax treatments separately;
- The assumptions an entity makes about the examination of tax treatments by taxation authorities;
- How an entity determines taxable profit (tax loss), tax bases, unused tax losses, unused tax credits and tax rates; and
- How an entity considers changes in facts and circumstances.

The entity is required to determine whether to consider each uncertain tax treatment separately or together with one or more other uncertain tax treatments and uses the approach that better predicts the resolution of the uncertainty. The entity shall assume that the taxation authority will examine amounts that it has a right to examine and have full knowledge of all related information when making those examination. If an entity concludes that it is not probable that the taxation authority will accept an uncertain tax treatment, it shall reflect the effect of the uncertainty for each uncertain tax treatment using the method the entity expects to better predict the resolution of the uncertainty.

6. PFRS 16, *Leases*

PFRS 16 supersedes PAS 17, *Leases*, Philippine Interpretation to IFRIC 4, *Determining whether an Arrangement contains a Lease*, Philippine Interpretation to SIC-15, *Operating Leases-Incentives* and Philippine Interpretation to SIC-27, *Evaluating the Substance of Transactions Involving the Legal Form of a Lease*. The standard sets out the principles for the recognition, measurement, presentation and disclosure of leases and requires lessees to recognize most leases on our consolidated statement of financial position. The standard includes two recognition exemptions for lessees – leases of ‘low-value’ assets (e.g., personal computers) and short-term leases (i.e., leases with a lease term of 12 months or less). At the commencement date of a lease, a lessee will recognize a liability to make lease payments (i.e., the lease liability) and an asset representing the right to use the underlying asset during the lease term (i.e., the right-of-use, or ROU, asset). Lessees will be required to separately recognize the interest expense on the lease liability and the depreciation expense on the ROU asset.

Lessees will be also required to remeasure the lease liability upon the occurrence of certain events (e.g., a change in the lease term, a change in future lease payments resulting from a change in an index or rate used to determine those payments). The lessee will generally recognize the amount of the remeasurement of the lease liability as an adjustment to the ROU asset.

Lessor accounting under PFRS 16 is substantially unchanged from today’s accounting under PAS 17. Lessors will continue to classify all leases using the same classification principle as in PAS 17 and distinguish between two types of leases: operating and finance leases. Therefore, PFRS 16 did not have an impact for leases where we are the lessor.

PFRS 16 also requires lessees and lessors to make more extensive disclosures than under PAS 17. A lessee can choose to apply the standard using either a full retrospective or a modified retrospective approach. The standard’s transition provisions permit certain reliefs.

We applied the modified retrospective approach upon adoption of PFRS 16 on January 1, 2019 and applied the standard to contracts that were previously identified as leases applying PAS 17 and Philippine Interpretation to IFRIC 4. We, therefore did not apply the standard to contracts that were not previously identified as containing a lease applying PAS 17 and Philippine Interpretation to IFRIC 4.

We elected to use the exemptions provided by the standard on lease contracts for which the lease term ends within 12 months as at the date of initial application, and lease contracts for which the underlying asset is of low value.

Our cash flows from operating activities have increased and cash flows from financing cash flows decreased as repayment of the principal portion of the lease liabilities were classified as cash flows from financing activities. In addition, our total assets and total liabilities have increased due to the recognition of ROU asset and lease liability. The accounting for operating leases where we act as the lessee will significantly change due to the adoption of PFRS 16.

The effect of adoption of PFRS 16 as at January 1, 2019 is as follows:

	Increase (Decrease) (in million pesos)
Assets:	
Right-of-use assets (Note 10)	14,226
Property and equipment (Notes 9 and 10)	(245)
Deferred income tax assets – net (Note 7)	172
Current portion of prepayments	(471)
Total Assets	13,682
Liabilities:	
Lease liabilities – net of current portion (Note 10)	12,386
Deferred credits and other noncurrent liabilities	(50)
Accrued expenses and other current liabilities	(577)
Current portion of lease liabilities (Note 10)	2,847
Total Liabilities	14,606
Net impact on equity:	
Retained earnings	(924)
Noncontrolling interests	—

Set out below are the amounts by which each financial statements line item is affected for the year ended December 31, 2019 as a result of the adoption of PFRS 16. The adoption of PFRS 16 did not have a material impact on other comprehensive income or on our investing cash flows. The first column shows amounts prepared under PFRS 16 and the second column shows what the amounts would have been had PFRS 16 not been adopted.

Consolidated income statement for the year ended December 31, 2019

	PFRS 16	PAS 17	Increase (Decrease)
			(in million pesos)
Expenses:			
Rent (Note 5)	1,290	6,571	(5,281)
Depreciation (Notes 3 and 10)	4,393	—	4,393
Financing costs – net (Notes 5 and 10)	1,061	—	1,061
Net impact on profit for the year	6,744	6,571	173
Tax effect	(2,023)	(1,971)	(52)
Net impact on profit for the year – net of tax	4,721	4,600	121
Attributable to:			
Equity holders of PLDT	(4,721)	(4,600)	(121)
Noncontrolling interests	—	—	—

Consolidated statement of financial position as at December 31, 2019

	PFRS 16	PAS 17	Increase (Decrease)
		(in million pesos)	
Assets:			
Right-of-use assets (Note 10)	15,890	—	15,890
Deferred income tax assets – net (Note 7)	23,623	23,228	395
Prepayments – net of current portion (Note 19)	48,933	49,394	(461)
Current portion of prepayments (Note 19)	11,298	11,308	(10)
Total Assets	99,744	83,930	15,814
Liabilities:			
Lease liabilities – net of current portion (Notes 3 and 10)	13,100	—	13,100
Deferred credits and other noncurrent liabilities (Note 22)	4,557	4,607	(50)
Accrued expenses and other current liabilities (Note 24)	100,815	100,221	594
Current portion of lease liabilities (Notes 3 and 10)	3,215	—	3,215
Total Liabilities	121,687	104,828	16,859
Net impact on equity:			
Retained earnings	(21,943)	(20,898)	(1,045)
Noncontrolling interests	—	—	—

Consolidated statement of cash flows for the year ended December 31, 2019

	(in million pesos)
Net cash flows from operating activities (PAS 17):	
Operating lease payments	(6,460)
Net cash flows from financing activities (PFRS 16):	
Payment of principal portion of lease liabilities (Note 10)	(5,399)

Upon adoption of PFRS 16, we applied a single recognition and measurement approach for all leases, except for short-term leases and leases of ‘low-value’ assets. See Section *Leases* for the accounting policy beginning January 1, 2019.

- Leases previously classified as finance leases

We did not change the initial carrying amounts of recognized assets and liabilities at the date of initial application for leases previously classified as finance leases (i.e., the ROU assets and lease liabilities equal the lease assets and liabilities recognized under PAS 17). The requirements of PFRS 16 was applied to these leases beginning January 1, 2019.

- Leases previously accounted for as operating leases

We recognized ROU assets and lease liabilities for those leases previously classified as operating leases, except for short-term leases and leases of ‘low-value’ assets. The ROU assets were recognized based on the carrying amount as if the standard had always been applied, apart from the use of incremental borrowing rate at the date of initial application. Lease liabilities were recognized based on the present value of the remaining lease payments, discounted using the incremental borrowing rate at the date of initial application.

We also applied the available practical expedients wherein we:

- Applied the short-term leases exemptions to leases with lease term that ends within 12 months at the date of initial application;
- Excluded the initial direct costs from the measurement of the ROU asset at the date of initial application;

- Used hindsight in determining the lease term where the contract contained options to extend or terminate the leases; and
- Elected not to separate non-lease components from lease components and accounted them as single lease component.

Based on the foregoing, as at January 1, 2019:

- Property and equipment of Php245 million, representing ARO asset were reclassified to ROU assets.
- ROU assets of Php14,226 million were recognized and presented separately in our consolidated statement of financial position. This includes lease assets recognized previously under finance leases of Php300 thousand that were reclassified from property and equipment.
- Deferred income tax assets – net decreased by Php172 million because of the deferred tax impact of the changes in assets and liabilities.
- Prepayments of Php471 million and accrued expenses and other current liabilities of Php577 million related to previous operating leases arising from straight-lining under PAS 17 were derecognized.
- Lease liabilities of Php15,233 million were recognized and presented separately in our consolidated statement of financial position.
- Deferred credits and other noncurrent liabilities of Php50 million were recognized for the interest portion of the lease liability.
- The net effect of these adjustments had been adjusted to retained earnings of Php924 million and noncontrolling interest of nil.

The lease liabilities as at January 1, 2019 can be reconciled to the operating lease commitments as at December 31, 2018 follows:

	(in million pesos)
Operating lease commitments as at December 31, 2018	22,674
Incremental borrowing rate as at January 1, 2019	7%-9%
Discounted operating lease commitments as at January 1, 2019	10,571
Less: Commitments relating to short-term leases	(49)
Commitments relating to service contracts	(304)
Add: Payments in optional extension periods not recognized as at December 31, 2018	4,994
Prepayments and accrued expenses (PAS 17)	21
Lease liabilities as at January 1, 2019	15,233

Due to the adoption of PFRS 16, our operating profit in 2019 improved, while our interest expense increased. This is due to the change in the accounting for rent expense related to leases that were classified as operating leases under PAS 17.

Summary of Significant Accounting Policies

The following is the summary of significant accounting policies we applied in preparing our consolidated financial statements:

Business Combinations and Goodwill

Business combinations are accounted for using the acquisition method. The cost of an acquisition is measured as the aggregate of the consideration transferred, measured at acquisition date fair value, and the amount of any noncontrolling interest in the acquiree. For each business combination, we elect whether to measure the components of the noncontrolling interest in the acquiree either at fair value or at the proportionate share of the acquiree's identifiable net assets. Acquisition-related costs are expensed as incurred and included in selling, general and administrative expenses.

When we acquire a business, we assess the financial assets and liabilities assumed for appropriate classification and designation in accordance with the contractual terms, economic circumstances and pertinent conditions as at the acquisition date. This includes the separation of embedded derivatives in host contracts by the acquiree.

If the business combination is achieved in stages, the previously held equity interest is remeasured at its acquisition date fair value and any resulting gain or loss is recognized in profit or loss. The fair value of previously held equity interest is then included in the amount of total consideration transferred.

Any contingent consideration to be transferred by the acquirer will be recognized at fair value at the acquisition date. Contingent consideration that is classified as equity is not remeasured and subsequent settlement is accounted for within equity. Contingent consideration classified as an asset or liability that is a financial instrument within the scope of PFRS 9 is measured at fair value with the changes in fair value recognized in profit or loss. In accordance with PFRS 9, other contingent consideration that is not within the scope of PFRS 9 is measured at fair value at each reporting date with changes in fair value recognized in profit or loss.

Goodwill is initially measured at cost, being the excess of the aggregate of the consideration transferred and the amount recognized for noncontrolling interests and any previous interest held, over the net identifiable assets acquired and liabilities assumed. If the fair value of the net assets acquired is in excess of the aggregate consideration transferred, we reassess whether we correctly identified all of the assets acquired and all of the liabilities assumed and review the procedures used to measure the amounts to be recognized at the acquisition date. If the reassessment still results in an excess of the fair value of net assets acquired over the aggregate consideration transferred, then the gain on a bargain purchase is recognized in profit or loss.

If the initial accounting for a business combination is incomplete by the end of the reporting period in which the combination occurs, we report in our consolidated financial statements provisional amounts for the items for which the accounting is incomplete. During the measurement period, which is no longer than one year from the acquisition date, the provisional amounts recognized at acquisition date are retrospectively adjusted to reflect new information obtained about facts and circumstances that existed as of the acquisition date and, if known, would have affected the measurement of the amounts recognized as of that date. During the measurement period, we also recognize additional assets or liabilities if new information is obtained about facts and circumstances that existed as of the acquisition date and, if known, would have resulted in the recognition of those assets and liabilities as of that date.

After initial recognition, goodwill is measured at cost less any accumulated impairment losses. For the purpose of impairment testing, goodwill acquired in a business combination is, from the acquisition date, allocated to each of our cash-generating units, or CGUs, that are expected to benefit from the combination, irrespective of whether other assets or liabilities of the acquiree are assigned to those units.

Where goodwill acquired in a business combination has yet to be allocated to identifiable CGUs because the initial accounting is incomplete, such provisional goodwill is not tested for impairment unless indicators of impairment exist and we can reliably allocate the carrying amount of goodwill to a CGU or group of CGUs that are expected to benefit from the synergies of the business combination.

Where goodwill has been allocated to a CGU and part of the operation within that unit is disposed of, the goodwill associated with the operation disposed of is included in the carrying amount of the operation when determining the gain or loss on disposal of the operation. Goodwill disposed of in this circumstance is measured based on the relative values of the disposed operation and the portion of the CGU retained.

Investments in Associates

An associate is an entity in which we have significant influence. Significant influence is the power to participate in the financial and operating policy decisions of the investee but has no control nor joint control over those policies. The existence of significant influence is presumed to exist when we hold 20% or more, but less than 50% of the voting power of another entity. Significant influence is also exemplified when we have one or more of the following: (a) a representation on the board of directors or the equivalent governing body of the investee; (b) participation in policy-making processes, including participation in decisions about dividends or other distributions; (c) material transactions with the investee; (d) interchange of managerial personnel with the investee; or (e) provision of essential technical information.

Investments in associates are accounted for using the equity method of accounting and are initially recognized at cost. The cost of the investments includes directly attributable transaction costs. The details of our investments in associates are disclosed in *Note 11 – Investments in Associates and Joint Ventures – Investments in Associates*.

Under the equity method, an investment in an associate is carried at cost plus post acquisition changes in our share of net assets of the associate. Goodwill relating to an associate is included in the carrying amount of the investment and is not amortized nor individually tested for impairment. Our consolidated income statements reflect our share in the financial performance of our associates. Where there has been a change recognized directly in the equity of the associate, we recognize our share in such change and disclose this, when applicable, in our consolidated statement of comprehensive income and consolidated statement of changes in equity. Unrealized gains and losses resulting from our transactions with and among our associates are eliminated to the extent of our interests in those associates.

Our share in the profits or losses of our associates is included under “Other income (expenses)” in our consolidated income statement. This is the profit or loss attributable to equity holders of the associate and therefore is profit or loss after tax and net of noncontrolling interest in the subsidiaries of the associate.

When our share of losses exceeds our interest in an associate, the carrying amount of the investment, including any long-term interests that form part thereof, is reduced to zero, and the recognition of further losses is discontinued except to the extent that we have an obligation or have made payments on behalf of the investee.

Our reporting dates and that of our associates are identical and our associates’ accounting policies conform to those used by us for like transactions and events in similar circumstances. When necessary, adjustments are made to bring such accounting policies in line with our policies.

After application of the equity method, we determine whether it is necessary to recognize an additional impairment loss on our investments in associates. We determine at the end of each reporting period whether there is any objective evidence that our investment in associate is impaired. If this is the case, we calculate the amount of impairment as the difference between the recoverable amount of our investment in the associate and its carrying value and recognize the amount in our consolidated income statements.

Upon loss of significant influence over the associate, we measure and recognize any retained investment at its fair value. Any difference between the carrying amounts of our investment in the associate upon loss of significant influence and the fair value of the remaining investment and proceeds from disposal is recognized in our consolidated financial statements.

Joint Arrangements

Joint arrangements are arrangements with respect to which we have joint control, established by contracts requiring unanimous consent from the parties sharing control for decisions about the activities that significantly affect the arrangements’ returns. They are classified and accounted for as follows:

- Joint operation – when we have rights to the assets, and obligations for the liabilities, relating to an arrangement, we account for each of our assets, liabilities and transactions, including our share of those held or incurred jointly, in relation to the joint operation in accordance with the PFRS applicable to the particular assets, liabilities and transactions.

- Joint venture – when we have rights only to the net assets of the arrangements, we account for our interest using the equity method, the same as our accounting for investments in associates.

The financial statements of the joint venture are prepared for the same reporting period as our consolidated financial statements. Where necessary, adjustments are made to bring the accounting policies of the joint venture in line with our policies. The details of our investments in joint ventures are disclosed in *Note 11 – Investments in Associates and Joint Ventures – Investments in Joint Ventures*.

Adjustments are made in our consolidated financial statements to eliminate our share of unrealized gains and losses on transactions between us and our joint venture. Our investment in the joint venture is carried at equity method until the date on which we cease to have joint control over the joint venture.

Upon loss of joint control over the joint venture, we measure and recognize our retained investment at fair value. Any difference between the carrying amount of the former joint venture upon loss of joint control and the fair value of the remaining investment and proceeds from disposal is recognized in profit or loss. When the remaining investment constitutes significant influence, it is accounted for as an investment in an associate with no remeasurement.

Current Versus Noncurrent Classifications

We present assets and liabilities in our consolidated statements of financial position based on current or noncurrent classification.

An asset is current when it is:

- Expected to be realized or intended to be sold or consumed in the normal operating cycle;
- Held primarily for the purpose of trading;
- Expected to be realized within twelve months after the reporting period; or
- Cash or cash equivalent unless restricted from being exchanged or used to settle a liability for at least twelve months after the reporting period.

All other assets are classified as noncurrent.

A liability is current when:

- It is expected to be settled in the normal operating cycle;
- It is held primarily for the purpose of trading;
- It is due to be settled within twelve months after the reporting period; or
- There is no unconditional right to defer the settlement of the liability for at least twelve months after the period.

The terms of the liquidity that could, at the option of the counterparty, result in its settlement by the issue of equity instruments do not affect its classification.

All other liabilities are classified as noncurrent.

Deferred income tax assets and liabilities are classified as noncurrent assets and liabilities, respectively.

Foreign Currency Transactions and Translations

Our consolidated financial statements are presented in Philippine Peso, which is also the Parent Company's functional currency. The Philippine Peso is the currency of the primary economic environment in which we operate. This is also the currency that mainly influences the revenue from and cost of rendering products and services. Each entity in our Group determines its own functional currency and items included in the separate financial statements of each entity are measured using that functional currency.

The functional and presentation currency of the entities under PLDT Group (except for the subsidiaries discussed below) is the Philippine Peso.

Transactions in foreign currencies are initially recorded by entities under our Group at the respective functional currency rates prevailing at the date of the transaction. Monetary assets and liabilities denominated in foreign currencies are retranslated at the functional currency closing rate of exchange prevailing at the end of the reporting period. All differences arising on settlement or translation of monetary items are recognized in our consolidated income statement except for foreign exchange differences that qualify as capitalizable borrowing costs for qualifying assets. Non-monetary items that are measured in terms of historical cost in a foreign currency are translated using the exchange rates as at the dates of the initial transactions. Non-monetary items measured at fair value in a foreign currency are translated using the exchange rates at the date when the fair value was determined. The gain or loss arising from transactions of non-monetary items measured at fair value is treated in line with the recognition of this gain or loss on the change in fair value of the items (i.e., translation differences on items whose fair value gain or loss is recognized in other comprehensive income or profit or loss are also recognized in other comprehensive income or profit or loss, respectively).

The functional currency of SMHC, FECL Group, PLDT Global and certain of its subsidiaries, PGNL and certain of its subsidiaries, Chikka and certain of its subsidiaries and PGIC is the U.S. Dollar; the functional currency of iCommerce Investments Pte. Ltd., or iCommerce, Chikka Pte. Ltd., or CPL, and ABM Global Solutions Pte. Ltd., or AGSPL, is the Singaporean Dollar; and the functional currency of PT Advance Business Microsystems Global Solutions, or AGS Indonesia, is the Indonesian Rupiah. As at the reporting date, the assets and liabilities of these subsidiaries are translated into Philippine Peso at the rate of exchange prevailing at the end of the reporting period, and income and expenses of these subsidiaries are translated monthly using the weighted average exchange rate for the month. The exchange differences arising on translation are recognized as a separate component of other comprehensive income as cumulative translation adjustments. Upon disposal of these subsidiaries, the amount of deferred cumulative translation adjustments recognized in other comprehensive income relating to subsidiaries is recognized in our consolidated income statement.

When there is a change in an entity's functional currency, the entity applies the translation procedures applicable to the new functional currency prospectively from the date of the change. The entity translates all assets and liabilities into the new functional currency using the exchange rate at the date of the change. The resulting translated amounts for non-monetary items are treated as the new historical cost. Exchange differences arising from the translation of a foreign operation previously recognized in other comprehensive income are not reclassified from equity to profit or loss until the disposal of the operation.

Foreign exchange gains or losses of the Parent Company and our Philippine-based subsidiaries are treated as taxable income or deductible expenses in the period such exchange gains or losses are realized.

Any goodwill arising on the acquisition of a foreign operation and any fair value adjustments to the carrying amounts of assets and liabilities arising on the acquisition are treated as assets and liabilities of the foreign operation and translated at the closing rate as at reporting date.

Financial Instruments – Beginning January 1, 2018

Financial Instruments – Initial recognition and subsequent measurement

Classification of financial assets

Financial assets are classified in their entirety based on the contractual cash flows characteristics of the financial assets and our business model for managing the financial assets. We classify our financial assets into the following measurement categories:

- Financial assets measured at amortized cost;
- Financial assets measured at FVPL;
- Financial assets measured at FVOCI, where cumulative gains or losses previously recognized are reclassified to profit or loss; and
- Financial assets measured at FVOCI, where cumulative gains or losses previously recognized are not reclassified to profit or loss.

Contractual cash flows characteristics

In order for us to identify the measurement of our debt financial assets, a solely payments of principal and interest, or SPPI, test needs to be initially performed in order to determine whether the contractual terms of the financial asset gives rise on specified dates to cash flows that are solely payments of principal and interest on the principal amount outstanding. Once a debt financial asset passed the SPPI test, business model assessment, which identifies our objective of holding the financial assets – hold to collect or hold to collect and sell, will be performed. Otherwise, if the debt financial asset failed the test, such will be measured at FVPL.

In making the assessment, we determine whether the contractual cash flows are consistent with a basic lending arrangement, i.e., interest includes consideration only for the time value of money, credit risk and other basic lending risks and costs associated with holding the financial asset for a particular period of time. In addition, interest can include a profit margin that is consistent with a basic lending arrangement. The assessment as to whether the cash flows meet the SPPI test is made in the currency in which the financial asset is denominated. Any other contractual terms that introduce exposure to risks or volatility in the contractual cash flows that is unrelated to a basic lending arrangement, such as exposure to changes in equity prices or commodity prices, do not give rise to contractual cash flows that are solely payments of principal and interest on the principal amount outstanding.

Business model

Our business model is determined at a level that reflects how groups of financial assets are managed together to achieve a particular business objective. Our business model does not depend on management's intentions for an individual instrument.

Our business model refers to how we manage our financial assets in order to generate cash flows. Our business model determines whether cash flows will result from collecting contractual cash flows, collecting contractual cash flows and selling financial assets or neither.

Financial assets at amortized cost

A financial asset is measured at amortized cost if: (i) it is held within a business model whose objective is to hold financial assets in order to collect contractual cash flows; and (ii) the contractual terms of the financial asset give rise on specified dates to cash flows that are solely payments of principal and interest on the principal amount outstanding. These financial assets are initially recognized at fair value plus directly attributable transaction costs and subsequently measured at amortized cost using the effective interest rate, or EIR, method, less any impairment in value. Amortized cost is calculated by taking into account any discount or premium on acquisition and fees and costs that are an integral part of the EIR. The amortization is included in 'Interest income' in our consolidated income statements and is calculated by applying the EIR to the gross carrying amount of the financial asset, except for (i) purchased or originated credit-impaired financial assets and (ii) financial assets that have subsequently become credit-impaired, where, in both cases, the EIR is applied to the amortized cost of the financial asset. Losses arising from impairment are recognized in 'Asset impairment' in our consolidated income statements.

Our financial assets at amortized cost include debt instruments at amortized cost, cash and cash equivalents, short-term investments, trade and other receivables, and portions of other financial assets as at December 31, 2019 and 2018. See *Note 13 – Debt Instruments at Amortized Cost*, *Note 16 – Cash and Cash Equivalents*, *Note 17 – Trade and Other Receivables* and *Note 28 – Financial Assets and Liabilities*.

Financial assets at FVOCI (debt instruments)

A financial asset is measured at FVOCI if: (i) it is held within a business model whose objective is achieved by both collecting contractual cash flows and selling financial assets; and (ii) its contractual terms give rise on specified dates to cash flows that are solely payments of principal and interest on the principal amount outstanding. These financial assets are initially recognized at fair value plus directly attributable transaction costs and subsequently measured at fair value. Gains and losses arising from changes in fair value are included in other comprehensive income within a separate component of equity. Impairment losses or reversals, interest income and foreign exchange gains and losses are recognized in profit and loss until the financial asset is derecognized. Upon derecognition, the cumulative gain or loss previously recognized in other comprehensive income is reclassified from equity to profit or loss. This reflects the gain or loss that would have been recognized in profit or loss upon derecognition if the financial asset had been measured at amortized cost. Impairment is measured based on the ECL model.

Our financial assets at FVOCI include receivables from MPIC as at December 31, 2019 and 2018. See *Note 25 – Related Party Transactions* and *Note 28 – Financial Assets and Liabilities*.

Financial assets at FVPL

Financial assets at FVPL are measured at fair value. Included in this classification are derivative financial assets, equity investments held for trading and debt instruments with contractual terms that do not represent solely payments of principal and interest. Financial assets held at FVPL are initially recognized at fair value, with transaction costs recognized in our consolidated income statements as incurred. Subsequently, they are measured at fair value and any gains or losses are recognized in our consolidated income statements.

Additionally, even if the asset meets the amortized cost or the FVOCI criteria, we may choose at initial recognition to designate the financial asset at FVPL if doing so eliminates or significantly reduces a measurement or recognition inconsistency (an accounting mismatch) that would otherwise arise from measuring financial assets on a different basis.

Trading gains or losses are calculated based on the results arising from trading activities of the PLDT Group, including all gains and losses from changes in fair value for financial assets and financial liabilities at FVPL, and the gains or losses from disposal of financial investments.

Our financial assets at FVPL include derivative financial assets and equity investments as at December 31, 2019 and 2018. See *Note 12 – Financial Assets at FVPL* and *Note 28 – Financial Assets and Liabilities*.

Classification of financial liabilities

Financial liabilities are measured at amortized cost, except for the following:

- Financial liabilities measured at FVPL;
- Financial liabilities that arise when a transfer of a financial asset does not qualify for derecognition or when we retain continuing involvement;
- Financial guarantee contracts;
- Commitments to provide a loan at a below-market interest rate; and
- Contingent consideration recognized by an acquirer in accordance with PFRS 3.

A financial liability may be designated at FVPL if it eliminates or significantly reduces a measurement or recognition inconsistency (an accounting mismatch) or:

- If a host contract contains one or more embedded derivatives; or
- If a group of financial liabilities or financial assets and liabilities is managed and its performance evaluated on a fair value basis in accordance with a documented risk management or investment strategy.

Where a financial liability is designated at FVPL, the movement in fair value attributable to changes in our own credit quality is calculated by determining the changes in credit spreads above observable market interest rates and is presented separately in other comprehensive income.

Our financial liabilities at FVPL include forward foreign exchange contracts, long-term principal only-currency swaps, interest rate swaps and liability from redemption of preferred stock as at December 31, 2019 and 2018. See *Note 28 – Financial Assets and Liabilities*.

Our other financial liabilities include interest-bearing financial liabilities, lease liabilities, customers' deposits, dividends payable, certain accounts payable and certain accrued expenses and other current liabilities and certain deferred credits and other noncurrent liabilities, (except for statutory payables) as at December 31, 2019 and 2018. See *Note 21 – Interest-bearing Financial Liabilities* and *Note 28 – Financial Assets and Liabilities*.

Reclassifications of financial instruments

We reclassify our financial assets when, and only when, there is a change in the business model for managing the financial assets. Reclassifications shall be applied prospectively and any previously recognized gains, losses or interest shall not be restated. We do not reclassify our financial liabilities.

We do not reclassify our financial assets when:

- A financial asset that was previously a designated and effective hedging instrument in a cash flow hedge or net investment hedge no longer qualifies as such;
- A financial asset becomes a designated and effective hedging instrument in a cash flow hedge or net investment hedge; and
- There is a change in measurement on credit exposures measured at FVPL.

Impairment of Financial Assets – Beginning January 1, 2018

We recognize ECL for the following financial assets that are not measured at FVPL.

- Debt instruments that are measured at amortized cost and FVOCI.

No ECL is recognized on equity investments.

ECLs are measured in a way that reflects the following:

- An unbiased and probability-weighted amount that is determined by evaluating a range of possible outcomes;
- The time value of money; and
- Reasonable and supportable information that is available without undue cost or effort at the reporting date about past events, current conditions and forecasts of future economic conditions.

Financial assets migrate through the following three stages based on the change in credit quality since initial recognition:

Stage 1: 12-month ECL – not credit impaired

For credit exposures where there have not been significant increases in credit risk since initial recognition and that are not credit-impaired upon origination, the portion of lifetime ECLs that represent the ECLs that result from default events that are possible within the 12-months after the reporting date are recognized.

Stage 2: Lifetime ECL – not credit-impaired

For credit exposures where there have been significant increases in credit risk since initial recognition on an individual or collective basis but are not credit-impaired, lifetime ECLs representing the ECLs that result from all possible default events over the expected life of the financial asset are recognized.

Stage 3: Lifetime ECL – credit-impaired

Financial assets are credit-impaired when one or more events that have a detrimental impact on the estimated future cash flows of those financial assets have occurred. For these credit exposures, lifetime ECLs are recognized and interest revenue is calculated by applying the credit-adjusted EIR to the amortized cost of the financial asset.

Loss allowances

Loss allowances are recognized based on 12-month ECL for debt instruments that are assessed to have low credit risk at the reporting date. A financial asset is considered to have low credit risk if:

- The financial instrument has a low risk of default;
- The counterparty has a strong capacity to meet its contractual cash flow obligations in the near term; and
- Adverse changes in economic and business conditions in the longer term may, but will not necessarily, reduce the ability of the counterparty to fulfill its contractual cash flow obligations.

We consider a debt instruments to have low credit risk when its credit risk rating is equivalent to the globally understood definition of 'investment grade', or when the exposure is less than 30 days past due.

The loss allowances recognized in the period is impacted by a variety of factors, as described below:

- Transfers between Stage 1 and Stage 2 and 3 due to the financial instruments experiencing significant increases (or decreases) of credit risk or becoming credit-impaired in the period, and the consequent “step up” (or “step down”) between 12-month and lifetime ECL;
- Additional allowances for new financial instruments recognized during the period, as well as releases for financial instruments derecognized in the period;
- Impact on the measurement of ECL due to changes in probability of defaults, or PDs, loss given defaults, or LGDs, and exposure at defaults, or EADs, in the period, arising from regular refreshing of inputs to models;
- Impacts on the measurement of ECL due to changes made to models and assumptions;
- Unwinding of discount within ECL due to passage of time, as ECL is measured on a present value basis; and
- Financial assets derecognized during the period and write-offs of allowances related to assets that were written off during the period.

Write-off policy

We write-off a financial asset measured at amortized cost, in whole or in part, when the asset is considered uncollectible, it has exhausted all practical recovery efforts and has concluded that it has no reasonable expectations of recovering the financial asset in its entirety or a portion thereof. We write-off an account when all of the following conditions are met:

- The asset is in past due for over 90 days, or is already an item-in-litigation with any of the following:
 - a. No properties of the counterparty could be attached
 - b. The whereabouts of the client cannot be located
 - c. It would be more expensive for the Group to follow-up and collect the amount, hence we have ceased enforcement activity, and
 - d. Collections can no longer be made due to insolvency or bankruptcy of the counterparty;
- Expanded credit arrangement is no longer possible;
- Filing of legal case is not possible; and
- The account has been classified as ‘Loss’.

Simplified approach

The simplified approach, where changes in credit risk are not tracked and loss allowances are measured at amounts equal to lifetime ECL, is applied to ‘Trade and other receivables’ and ‘Contract assets’. We have established a provision matrix for billed trade receivables and a vintage analysis for contract assets and unbilled trade receivables that is based on historical credit loss experience, adjusted for forward-looking factors specific to the debtors and the economic environment.

Impairment of Financial Assets – Prior to January 1, 2018

We assess at the end of each reporting period whether there is any objective evidence that a financial asset or a group of financial assets is impaired. A financial asset or a group of financial assets is deemed to be impaired if, and only if, there is objective evidence of impairment as a result of one or more events that have occurred after the initial recognition of the asset (an incurred “loss event”) and that loss event has an impact on the estimated future cash flows of the financial asset or the group of financial assets that can be reliably estimated. Evidence of impairment may include indications that the debtor or a group of debtors is experiencing significant financial difficulty, default or delinquency in interest or principal payments, the probability that the debtor will enter bankruptcy or other financial reorganization and where observable data indicate that there is a measurable decrease in the estimated future cash flows, such as changes in arrears or economic conditions that correlate with defaults.

Impairment of Trade and Other Receivables – Prior to January 1, 2018

Individual impairment

Retail subscribers

We recognize impairment losses for the whole amount of receivables from permanently disconnected wireless and fixed line subscribers. Subscribers are permanently disconnected after a series of collection steps following nonpayment by postpaid subscribers. Such permanent disconnection usually occurs within a predetermined period from the last statement date.

We also recognize impairment losses for accounts with extended credit arrangements or promissory notes.

Corporate subscribers

Receivables from corporate subscribers are provided with impairment losses when they are specifically identified as impaired. Full allowance is generally provided for the whole amount of receivables from corporate accounts based on aging of individual account balances. In making this assessment, we take into account normal payment cycle, payment history and status of the account.

Foreign administrations and domestic carriers

For receivables from foreign administration and domestic carriers, impairment losses are recognized when they are specifically identified as impaired regardless of the age of balances. Full allowance is generally provided after quarterly review of the status of settlement with the carriers. In making this assessment, we take into account normal payment cycle, counterparty carrier’s payment history and industry-observed settlement periods.

Dealers, agents and others

Similar to carrier accounts, we recognize impairment losses for the full amount of receivables from dealers, agents and other parties based on our specific assessment of individual balances based on age and payment habits, as applicable.

Collective impairment

Postpaid wireless and fixed line subscribers

We estimate impairment losses for temporarily disconnected accounts for both wireless and fixed line subscribers based on the historical trend of temporarily disconnected accounts which eventually become permanently disconnected. Temporary disconnection is initiated after a series of collection activities is implemented, including the sending of a collection letter, call-out reminders and collection messages via text messaging. Temporary disconnection generally happens 90 days after the due date of the unpaid balance. If the account is not settled within 60 days from temporary disconnection, the account is permanently disconnected.

We recognize impairment losses on our postpaid wireless and fixed line subscribers through net flow-rate methodology which is derived from account-level monitoring of subscriber accounts between different age brackets, from current to 120 days past due. The criterion adopted for making the allowance for doubtful accounts takes into consideration the calculation of the actual percentage of losses incurred on each range of accounts receivable.

Other subscribers

Receivables that have been assessed individually and found not to be impaired are then assessed collectively based on similar credit risk characteristics to determine whether provision should be made due to incurred loss events for which there is objective evidence but whose effects are not yet evident in the individual impairment assessment. Retail subscribers are provided with collective impairment based on a certain percentage derived from historical data/statistics.

See *Note 3 – Management’s Use of Accounting Judgments, Estimates and Assumptions – Estimating Allowance for Doubtful Accounts*, *Note 17 – Trade and Other Receivables* and *Note 28 – Financial Assets and Liabilities – Impairment Assessments* for further disclosures relating to impairment of financial assets.

Financial assets at amortized cost

For financial assets at amortized cost, we first assess whether objective evidence of impairment exists individually for financial assets that are individually significant, or collectively for financial assets that are not individually significant. If we determine that no objective evidence of impairment exists for an individually assessed financial asset, whether significant or not, we include the asset in a group of financial assets with similar credit risk characteristics and collectively assess them for impairment. Assets that are individually assessed for impairment and for which an impairment loss is, or continues to be, recognized are not included in a collective assessment of impairment.

If there is objective evidence that an impairment loss has been incurred, the amount of the loss is measured as the difference between the asset’s carrying amount and the present value of estimated future cash flows (excluding future ECL that have not yet been incurred). The present value of the estimated future cash flows is discounted at the financial asset’s original EIR. If a financial asset has a variable interest rate, the discount rate for measuring any impairment loss is the current EIR.

The carrying amount of the asset is reduced through the use of an allowance account and the amount of the loss is recognized under “Asset impairment” in our consolidated income statement. Interest income continues to be accrued on the reduced carrying amount based on the original EIR of the asset. The financial asset together with the associated allowance are written-off when there is no realistic prospect of future recovery and all collateral has been realized or has been transferred to us. If, in a subsequent year, the amount of the estimated impairment loss increases or decreases because of an event occurring after the impairment was recognized, the previously recognized impairment loss is increased or reduced by adjusting the allowance account. Any subsequent reversal of an impairment loss is recognized in our consolidated income statement, to the extent that the carrying value of the asset does not exceed its original amortized cost at the reversal date. If a write-off is later recovered, the recovery is recognized in profit or loss.

Available-for-sale financial investments

For available-for-sale financial investments, we assess at each reporting date whether there is objective evidence that an investment or a group of investments is impaired.

In the case of equity investments classified as available-for-sale financial investments, objective evidence would include a significant or prolonged decline in the fair value of the investment below its cost. The determination of what is “significant” or “prolonged” requires judgment. We treat “significant” generally as decline of 20% or more below the original cost of investment, and “prolonged” as greater than 12 months assessed against the period in which the fair value has been below its original cost. When a decline in the fair value of an available-for-sale financial investment has been recognized in other comprehensive income and there is objective evidence that the asset is impaired, the cumulative loss that had been recognized in other comprehensive income is reclassified to profit or loss as a reclassification adjustment even though the financial asset has not been derecognized. The amount of the cumulative loss that is reclassified from other comprehensive income to profit or loss is the difference between the acquisition cost (net of any principal repayment and amortization) and the current fair value, less any impairment loss on that financial asset previously recognized in profit or loss. If available-for-sale equity security is impaired, any further decline in the fair value at subsequent reporting date is recognized as impairment. Therefore, at each reporting period, for an equity security that was determined to be impaired, additional impairments are recognized for the difference between fair value and the original cost, less any previously recognized impairment. Impairment losses on equity investments are not reversed in profit or loss. Subsequent increases in the fair value after impairment are recognized in other comprehensive income.

In the case of debt instruments classified as available-for-sale financial investments, impairment is assessed based on the same criteria as financial assets carried at amortized cost. However, the amount recorded for impairment is the cumulative loss measured as the difference between the amortized cost and the current fair value, less any impairment loss on that investment previously recognized in our consolidated income statement. Future interest income continues to be accrued based on the reduced carrying amount of the asset, using the rate of interest used to discount future cash flows for the purpose of measuring impairment loss. Such accrual is recorded as part of “Other income (expense) – Interest income” in our consolidated income statement. If, in a subsequent year, the fair value of a debt instrument increases and the increase can be objectively related to an event occurring after the impairment loss was recognized in our consolidated income statement, the impairment loss is reversed in profit or loss.

Derecognition of Financial Assets and Liabilities

Financial assets

A financial asset (or where applicable as part of a financial asset or part of a group of similar financial assets) is primarily derecognized when: (1) the right to receive cash flows from the asset has expired; or (2) we have transferred the right to receive cash flows from the asset or have assumed an obligation to pay the received cash flows in full without material delay to a third party under a “pass-through” arrangement; and either: (a) we have transferred substantially all the risks and rewards of the asset; or (b) we have neither transferred nor retained substantially all the risks and rewards of the asset, but have transferred control of the asset.

When we have transferred the right to receive cash flows from an asset or have entered into a “pass-through” arrangement and have neither transferred nor retained substantially all the risks and rewards of the asset nor transferred control of the asset, a new asset is recognized to the extent of our continuing involvement in the asset.

Continuing involvement that takes the form of a guarantee over the transferred asset is measured at the lower of the original carrying amount of the asset and the maximum amount of consideration that we could be required to repay.

When continuing involvement takes the form of a written and/or purchased option (including a cash-settled option or similar provision) on the transferred asset, the extent of our continuing involvement is the amount of the transferred asset that we may repurchase, except that in the case of a written put option (including a cash-settled option or similar provision) on an asset measured at fair value, the extent of our continuing involvement is limited to the lower of the fair value of the transferred asset and the option exercise price.

Financial liabilities

A financial liability is derecognized when the obligation under the liability is discharged or cancelled or has expired.

When an existing financial liability is replaced by another from the same lender on substantially different terms, or the terms of an existing liability are substantially modified, such an exchange or modification is treated as a derecognition of the original liability and the recognition of a new liability, and the difference in the carrying amount of a financial liability extinguished or transferred to another party and the consideration paid, including any non-cash assets transferred or liabilities assumed, is recognized in consolidated income statement.

The financial liability is also derecognized when equity instruments are issued to extinguish all or part of the financial liability. The equity instruments issued are recognized at fair value if it can be reliably measured, otherwise, it is recognized at the fair value of the financial liability extinguished. Any difference between the fair value of the equity instruments issued and the carrying value of the financial liability extinguished is recognized in consolidated income statement.

Derivative Financial Instruments and Hedge Accounting

Initial recognition and subsequent measurement

We use derivative financial instruments, such as long-term currency swaps, foreign currency options, forward currency contracts and interest rate swaps to hedge our risks associated with foreign currency fluctuations and interest rates. Such derivative financial instruments are initially recognized at fair value on the date on which a derivative contract is entered into and are subsequently remeasured at fair value. Derivatives are carried as financial assets when the fair value is positive and as financial liabilities when the fair value is negative.

The fair value of forward currency contracts is calculated by reference to current forward exchange rates for contracts with similar maturity profiles. The fair value of long-term currency swaps, foreign currency options, forward currency contracts and interest rate swap contracts is determined using applicable valuation techniques. See *Note 28 – Financial Assets and Liabilities*.

Any gains or losses arising from changes in fair value on derivatives during the period that do not qualify for hedge accounting are taken directly to the “Other income (expense) – net – Gains (losses) on derivative financial instruments – net” in our consolidated income statements.

For the purpose of hedge accounting, hedges are classified as: (1) fair value hedges when hedging the exposure to changes in the fair value of a recognized financial asset or liability or an unrecognized firm commitment (except for foreign currency risk); or (2) cash flow hedges when hedging exposure to variability in cash flows that is either attributable to a particular risk associated with a recognized financial asset or liability, a highly probable forecast transaction or the foreign currency risk in an unrecognized firm commitment; or (3) hedges of a net investment in a foreign operation.

At the inception of a hedge relationship, we formally designate and document the hedge relationship to which we wish to apply hedge accounting and the risk management objective and strategy for undertaking the hedge. The documentation includes identification of the hedging instrument, the hedged item or transaction, the nature of the risk being hedged and how we will assess the hedging instrument's effectiveness in offsetting the exposure to changes in the hedged item's fair value or cash flows attributable to the hedged risk. Such hedges are expected to be highly effective in achieving offsetting changes in fair value or cash flows and are assessed on an on-going basis to determine that they actually have been highly effective throughout the financial reporting periods for which they are designated. In a situation when that hedged item is a forecast transaction, we assess whether the transaction is highly probable and presents an exposure to variations in cash flows that could ultimately affect our consolidated income statements.

Hedges which meet the criteria for hedge accounting are accounted for as follows:

Fair value hedges

The change in the fair value of a hedging instrument is recognized in our consolidated income statements as financing cost. The change in the fair value of the hedged item attributable to the risk hedged is recorded as part of the carrying value of the hedged item and is also recognized in our consolidated income statements.

For fair value hedges relating to items carried at amortized cost, any adjustment to carrying value is amortized through profit or loss over the remaining term of the hedge using the EIR method. EIR amortization may begin as soon as adjustment exists and no later than when the hedged item ceases to be adjusted for changes in its fair value attributable to the risk being hedged.

If the hedged item is derecognized, the unamortized fair value is recognized immediately in our consolidated income statements.

When an unrecognized firm commitment is designated as a hedged item, the subsequent cumulative change in the fair value of the firm commitment attributable to the hedged risk is recognized as an asset or liability with a corresponding gain or loss recognized in our consolidated income statements.

Cash flow hedges

The effective portion of the gain or loss on the hedging instrument is recognized in other comprehensive income, while any ineffective portion is recognized immediately in our consolidated income statements. See *Note 28 – Financial Assets and Liabilities* for more details.

Amounts taken to other comprehensive income are transferred to our consolidated income statement when the hedged transaction affects our consolidated income statement, such as when the hedged financial income or financial expense is recognized or when a forecast transaction occurs. Where the hedged item is the cost of a non-financial asset or non-financial liability, the amounts taken to other comprehensive income are transferred to the initial carrying amount of the non-financial asset or liability.

If the forecast transaction or firm commitment is no longer expected to occur, amounts previously recognized in other comprehensive income are transferred to our consolidated income statement. If the hedging instrument expires or is sold, terminated or exercised without replacement or rollover, or if its designation as a hedge is revoked, amounts previously recognized in other comprehensive income remain in other comprehensive income until the forecast transaction or firm commitment occurs.

We use an interest rate swap agreement to hedge our interest rate exposure and a long-term principal only-currency swap agreement to hedge our foreign exchange exposure on certain outstanding loan balances. See *Note 28 – Financial Assets and Liabilities*.

Current versus noncurrent classification

Derivative instruments that are not designated as effective hedging instruments are classified as current or noncurrent or separated into a current and noncurrent portion based on an assessment of the facts and circumstances (i.e., the underlying contracted cash flows).

Where we expect to hold a derivative as an economic hedge (and does not apply hedge accounting) for a period beyond 12 months after the reporting date, the derivative is classified as noncurrent (or separated into current and noncurrent portions) consistent with the classification of the underlying item.

Embedded derivatives that are not closely related to the host contract are classified consistent with the cash flows of the host contract.

Derivative instruments that are designated as effective hedging instruments are classified consistently with the classification of the underlying hedged item. The derivative instrument is separated into a current portion and a noncurrent portion only if a reliable allocation can be made.

We recognize transfers into and transfers out of fair value hierarchy levels as at the date of the event or change in circumstances that caused the transfer.

Property and Equipment

Property and equipment, except for land, is stated at cost less accumulated depreciation and amortization and any accumulated impairment losses. Land is stated at cost less any impairment in value. The initial cost of property and equipment comprises its purchase price, including import duties and non-refundable purchase taxes and any directly attributable costs of bringing the property and equipment to its working condition and location for its intended use. Such cost includes the cost of replacing component parts of the property and equipment when the cost is incurred, if the recognition criteria are met. When significant parts of property and equipment are required to be replaced at intervals, we recognize such parts as individual assets with specific useful lives and depreciate them accordingly. Likewise, when a major inspection is performed, its cost is recognized in the carrying amount of the property and equipment as a replacement if the recognition criteria are satisfied. All other repairs and maintenance costs are recognized as expense as incurred. The present value of the expected cost for the decommissioning of the asset after use is included in the cost of the asset if the recognition criteria for a provision are met.

Depreciation and amortization commence once the property and equipment are available for their intended use and are calculated on a straight-line basis over the estimated useful lives of the assets. The estimated useful lives used in depreciating our property and equipment are disclosed in *Note 9 – Property and Equipment*.

The residual values, estimated useful lives, and methods of depreciation and amortization are reviewed at least at each financial year-end and adjusted prospectively, if appropriate.

An item of property and equipment and any significant part initially recognized are derecognized upon disposal or when no future economic benefits are expected from its use or disposal. Any gain or loss arising on derecognition of the asset (calculated as the difference between the net disposal proceeds and the carrying amount of the asset) is included in consolidated income statement when the asset is derecognized.

Property under construction is stated at cost less any impairment in value. This includes cost of construction, plant and equipment, capitalizable borrowing costs and other direct costs associated to construction. Property under construction is not depreciated until such time that the relevant assets are completed and available for its intended use.

Property under construction is transferred to the related property and equipment when the construction or installation and related activities necessary to prepare the property and equipment for their intended use have been completed, and the property and equipment are ready for operational use.

Borrowing Costs

Borrowing costs are capitalized if they are directly attributable to the acquisition, construction or production of a qualifying asset. Qualifying assets are assets that necessarily take a substantial period of time to get ready for their intended use or sale. Capitalization of borrowing costs commences when the activities to prepare the asset for its intended use or sale are in progress and the expenditures and borrowing costs are incurred. Borrowing costs are capitalized until the assets are substantially completed for their intended use or sale.

All other borrowing costs are expensed as incurred. Borrowing costs consist of interest and other costs that an entity incurs in connection with the borrowing of funds.

Asset Retirement Obligations

We are legally required under various lease agreements to dismantle the installation in leased sites and restore such sites to their original condition at the end of the lease contract term. We recognize the liability measured at the present value of the estimated costs of these obligations and capitalize such costs as part of the balance of the related item of property and equipment. The amount of asset retirement obligations is accreted and such accretion is recognized as interest expense. See *Note 9 – Property and Equipment* and *Note 22 – Deferred Credits and Other Noncurrent Liabilities*.

Investment Properties

Investment properties are initially measured at cost, including transaction costs. Subsequent to initial recognition, investment properties are stated at fair value, which reflects market conditions at the reporting date. Gains or losses arising from changes in the fair values of investment properties are included in our consolidated income statement in the period in which they arise, including the corresponding tax effect. Fair values are determined based on an amount evaluation performed by a Philippine SEC accredited external independent valuer applying a valuation model recommended by the International Valuation Standards Committee.

Investment properties are derecognized when they are disposed of or when they are permanently withdrawn from use and no future economic benefit is expected from their disposal. Any gain or loss on the retirement or disposal of an investment property is recognized in our consolidated income statement in the year of retirement or disposal.

Transfers are made to or from investment property only when there is a change in use. For a transfer from investment property to owner-occupied property, the deemed cost for subsequent accounting is the fair value at the date of change in use. If owner-occupied property becomes an investment property, we account for such property in accordance with the policy stated under property and equipment up to the date of change in use. The difference between the carrying amount of the owner-occupied property and its fair value at the date of change is accounted for as revaluation increment recognized in other comprehensive income. On subsequent disposal of the investment property, the revaluation increment recognized in other comprehensive income is transferred to retained earnings.

No assets held under operating lease have been classified as investment properties.

Intangible Assets

Intangible assets acquired separately are measured at cost on initial recognition. The cost of intangible assets acquired from business combinations is initially recognized at fair value on the date of acquisition. Following initial recognition, intangible assets are carried at cost less any accumulated amortization and accumulated impairment losses. The useful lives of intangible assets are assessed at the individual asset level as either finite or indefinite.

Intangible assets with finite lives are amortized over the economic useful life using the straight-line method and assessed for impairment whenever there is an indication that the intangible assets may be impaired. At the minimum, the amortization period and the amortization method for an intangible asset with a finite useful life are reviewed at each financial year-end. Changes in the expected useful life or the expected pattern of consumption of future economic benefits embodied in the asset are accounted for by changing the amortization period or method, as appropriate, and treated as changes in accounting estimates. The amortization expense on intangible assets with finite lives is recognized in our consolidated income statements.

Intangible assets with indefinite useful lives are not amortized but are tested for impairment annually either individually or at the CGU level. The useful life of an intangible asset with an indefinite life is reviewed annually to determine whether the indefinite life assessment continues to be supportable. If not, the change in the useful life assessment from indefinite to finite is made on a prospective basis.

The estimated useful lives used in amortizing our intangible assets are disclosed in *Note 15 – Goodwill and Intangible Assets*.

Gains or losses arising from derecognition of an intangible asset are measured as the difference between the net disposal proceeds and the carrying amount of the asset and are recognized in our consolidated income statements when the asset is derecognized.

Internally generated intangibles are not capitalized, and the related expenditures are charged against operations in the period in which the expenditures are incurred.

Inventories and Supplies

Inventories and supplies, which include cellular and landline phone units, materials, spare parts, terminal units and accessories, are valued at the lower of cost and net realizable value.

Costs incurred in bringing inventories and supplies to its present location and condition are accounted for using the weighted average cost method. Net realizable value is determined by either estimating the selling price in the ordinary course of business, less the estimated cost to sell or determining the prevailing replacement costs.

Impairment of Non-Financial Assets

We assess at each reporting period whether there is an indication that an asset may be impaired. If any indication exists, or when the annual impairment testing for an asset is required, we make an estimate of the asset's recoverable amount. An asset's recoverable amount is the higher of an asset's or CGU's fair value less costs of disposal and its value in use, or VIU. The recoverable amount is determined for an individual asset, unless the asset does not generate cash inflows that are largely independent from those of other assets or groups of assets. When the carrying amount of an asset or CGU exceeds its recoverable amount, the asset is considered impaired and is written down to its recoverable amount.

In assessing the VIU, the estimated future cash flows are discounted to their present value using a pre-tax discount rate that reflects current market assessments of the time value of money and the risks specific to the asset. In determining the fair value less costs of disposal, recent market transactions are taken into account. If no such transactions can be identified, an appropriate valuation model is used. Impairment losses are recognized in our consolidated income statements.

For assets, excluding goodwill, an assessment is made at each reporting date to determine whether there is an indication that previously recognized impairment losses no longer exist or have decreased. If such indication exists, we make an estimate of the recoverable amount. A previously recognized impairment loss is reversed only if there has been a change in the assumptions used to determine the asset's recoverable amount since the last impairment loss was recognized. If this is the case, the carrying amount of the asset is increased to its recoverable amount. The increased amount cannot exceed the carrying amount that would have been determined, net of depreciation and amortization, had no impairment loss been recognized for the asset in prior years. Such reversal is recognized in our consolidated income statements. After such reversal, the depreciation and amortization charges are adjusted in future years to allocate the asset's revised carrying amount, less any residual value, on a systematic basis over its remaining economic useful life.

The following assets have specific characteristics for impairment testing:

Property and equipment, ROU assets, and intangible assets with definite useful lives

For property and equipment and ROU assets, we assess for impairment on the basis of impairment indicators such as evidence of internal obsolescence or physical damage. For intangible assets with definite useful lives, we assess for impairment whenever there is an indication that the intangible assets may be impaired. See *Note 3 – Management's Use of Accounting Judgments, Estimates and Assumptions – Impairment of non-financial assets*, *Note 9 – Property and Equipment*, *Note 10 – Leases* and *Note 15 – Goodwill and Intangible Assets* for further disclosures relating to impairment of non-financial assets.

Investments in associates and joint ventures

We determine at the end of each reporting period whether there is any objective evidence that our investments in associates and joint ventures are impaired. If this is the case, the amount of impairment is calculated as the difference between the recoverable amount of the investments in associates and joint ventures, and its carrying amount. The amount of impairment loss is recognized in our consolidated income statements. See *Note 11 – Investments in Associates and Joint Ventures* for further disclosures relating to impairment of non-financial assets.

Goodwill

Goodwill is tested for impairment annually as at December 31 and when circumstances indicate that the carrying value may be impaired. Impairment is determined for goodwill by assessing the recoverable amount of each CGU, or group of CGUs, to which the goodwill relates. When the recoverable amount of the CGU, or group of CGUs, is less than the carrying amount of the CGU, or group of CGUs, to which goodwill has been allocated, an impairment loss is recognized. Impairment losses relating to goodwill cannot be reversed in future periods.

See *Note 3 – Management's Use of Accounting Judgments, Estimates and Assumptions – Impairment of non-financial assets* and *Note 15 – Goodwill and Intangible Assets – Impairment testing of goodwill and intangible assets with indefinite useful life* for further disclosures relating to impairment of non-financial assets.

Intangible asset with indefinite useful life

Intangible asset with indefinite useful life is not amortized but is tested for impairment annually either individually or at the CGU level, as appropriate. We calculate the amount of impairment as being the difference between the recoverable amount of the intangible asset or the CGU, and its carrying amount and recognize the amount of impairment in our consolidated income statements. Impairment losses relating to intangible assets can be reversed in future periods.

See *Note 3 – Management's Use of Accounting Judgments, Estimates and Assumptions – Impairment of non-financial assets* and *Note 15 – Goodwill and Intangible Assets – Impairment testing of goodwill and intangible assets with indefinite useful life* for further disclosures relating to impairment of non-financial assets.

Investment in Debt Securities

Investment in debt securities consists of time deposits and government securities which are carried at amortized cost using the EIR method. Interest earned from these securities is recognized under “Other income (expenses) – net – Interest income” in our consolidated income statements.

Cash and Cash Equivalents

Cash includes cash on hand and in banks. Cash equivalents, which include temporary cash investments, are short-term, highly liquid investments that are readily convertible to known amounts of cash with original maturities of three months or less from the date of acquisition, and for which there is an insignificant risk of change in value.

Short-term Investments

Short-term investments are money market placements, which are highly liquid with maturities of more than three months but less than one year from the date of acquisition.

Fair Value Measurement

We measure financial instruments such as derivatives, financial assets at FVPL, financial assets at FVOCI and non-financial assets such as investment properties, at fair value at each reporting date. The fair values of financial instruments measured at amortized cost are disclosed in *Note 28 – Financial Assets and Liabilities*. The fair values of investment properties are disclosed in *Note 14 – Investment Properties*.

Fair value is the estimated price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. The fair value measurement is based on the presumption that the transaction to sell the asset or transfer the liability takes place either: (i) in the principal market for the asset or liability; or (ii) in the absence of a principal market, in the most advantageous market for the asset or liability.

The principal or the most advantageous market must be accessible to us.

The fair value of an asset or a liability is measured using the assumptions that market participants would use when pricing the asset or liability, assuming that market participants act in their economic best interest.

A fair value measurement of a non-financial asset takes into account a market participant’s ability to generate economic benefits by using the asset in its highest and best use or by selling it to another market participant that would use the asset in its highest and best use.

We use valuation techniques that are appropriate in the circumstances and for which sufficient data are available to measure fair value, maximizing the use of relevant observable inputs and minimizing the use of unobservable inputs.

All assets and liabilities for which fair value is measured or disclosed in our consolidated financial statements are categorized within the fair value hierarchy, described as follows, based on the lowest level input that is significant to the fair value measurement as a whole: (i) Level 1 - Quoted (unadjusted) market prices in active markets for identical assets or liabilities; (ii) Level 2 - Valuation techniques for which the lowest level input that is significant to the fair value measurement is directly or indirectly observable; and (iii) Level 3 - Valuation techniques for which the lowest level input that is significant to the fair value measurement is unobservable.

For assets and liabilities that are recognized in our consolidated financial statements on a recurring basis, we determine whether transfers have occurred between levels in the hierarchy by re-assessing categorization (based on the lowest level input that is significant to the fair value measurement as a whole) at the end of each reporting period.

We determine the policies and procedures for both recurring fair value measurement, such as investment properties and unquoted FVPL financial assets, and for non-recurring measurement, such as assets held for distribution in discontinued operation.

External valuers are involved for valuation of significant assets, such as certain short-term investments and investment properties. Involvement of external valuers is decided upon annually. Selection criteria include market knowledge, reputation, independence and whether professional standards are maintained. At each reporting date, we analyze the movements in the values of assets and liabilities which are required to be re-measured or re-assessed as per our accounting policies. For this analysis, we verify the major inputs applied in the latest valuation by agreeing the information in the valuation computation to contracts and other relevant documents.

We, in conjunction with our external valuers, also compare the changes in the fair value of each asset and liability with relevant external sources to determine whether the change is reasonable. This includes a discussion of the major assumptions used in the valuations. For the purpose of fair value disclosures, we have determined classes of assets and liabilities on the basis of the nature, characteristics and risks of the asset or liability and the level of the fair value hierarchy as explained above.

Revenue – Beginning January 1, 2018

Revenue from contracts with customers

Revenue is recognized to depict the transfer of promised goods or services to customers in an amount that reflects the consideration which we expect to be entitled to in exchange for those goods or services. PFRS 15 prescribes a five-step model to be followed in the recognition of revenue, wherein we take into consideration the performance obligations which we need to perform in the agreements we have entered into with our customers. Revenue is measured by allocating the transaction price, which includes variable considerations, to each performance obligation on a relative stand-alone selling price basis, taking into account contractually defined terms of payment and excluding value-added tax, or VAT, or overseas communication tax, or OCT, where applicable. Transaction prices are adjusted for the effects of a significant component if we expect, at contract inception, that the period between the transfer of the promised goods or services to the customer and when the customer pays for that good or service will be more than one year.

When allocating the total contract transaction price to identified performance obligations, a portion of the total transaction price may relate to service performance obligations which were not satisfied or are partially satisfied as of end of the reporting period. In determining the transaction price allocated, we do not include nonrecurring charges and estimates for usage, nor do we consider arrangements with an original expected duration of one year or less.

Remaining performance obligations are associated with our wireless and fixed line subscription contracts. As at December 31, 2019, excluding the performance obligations for contracts with original expected duration of less than one year, the aggregate amount of the transaction price allocated to remaining performance obligations was Php22,864 million, of which we expect to recognize approximately 68% in 2020 and 32% in 2021 and onwards. As at December 31, 2018, excluding the performance obligations for contracts with original expected duration of less than one year, the aggregate amount of the transaction price allocated to remaining performance obligations was Php30,753 million, of which we expect to recognize approximately 63% in 2019 and 37% in 2020 and onwards.

When determining our performance obligations, we assess our revenue arrangements against specific criteria to determine if we are acting as principal or agent. We consider both the legal form and the substance of our agreement, to determine each party's respective roles in the agreement. We are a principal and record revenue on a gross basis if we control the promised goods or services before transferring them or rendering those to the customer. However, if our role is only to arrange for another entity to provide the goods or services, then we are an agent and will need to record revenue at the net amount that we retain for our agency services.

The disclosures of significant accounting judgments, estimates and assumptions relating to revenue from contracts with customers are provided in *Note 3 – Management’s Use of Accounting Judgments, Estimates and Assumptions – Identifying performance obligations*.

Our revenues are principally derived from providing the following telecommunications services: cellular voice and data services in the wireless business; and local exchange, international and national long distance, data and other network, and information and communications services in the fixed line business.

Services may be rendered separately or bundled with goods or other services. The specific recognition criteria are as follows:

i. Single Performance Obligation (POB) Contracts

Postpaid service arrangements include fixed monthly charges (including excess of consumable fixed monthly service fees) generated from cellular voice, short messaging services, or SMS, and data services through the postpaid plans of Smart, Sun Cellular and Infinity brands, from local exchange services primarily through landline and related services, and from fixed line and other network services primarily through broadband and leased line services, which we recognize on a straight-line basis over the customer’s subscription period. Services provided to postpaid subscribers are billed throughout the month according to the billing cycles of subscribers. Services availed by subscribers in addition to these fixed fee arrangements are charged separately at their stand-alone selling prices and recognized as the additional service is provided or as availed by the subscribers.

Our prepaid service revenues arise from the usage of airtime load from channels and prepaid cards provided by Smart, Sun Cellular, TNT, SmartBro and Sun Broadband brands. Proceeds from over-the-air reloading channels and prepaid cards are initially recognized as contract liability and realized upon actual usage of the airtime value for voice, SMS, mobile data and other VAS, prepaid unlimited and bucket-priced SMS and call subscriptions, net of bonus credits from load packages purchased, such as free additional call minutes, SMS, data allocation or airtime load, or upon expiration, whichever comes earlier.

We also consider recognizing revenue from the expected breakage or expiry of airtime load in proportion to the pattern of rights exercised by the customer if it expects to be entitled to that breakage amount. If we do not expect to be entitled to a breakage amount based on historical experience with the customers, then we recognize the expected breakage amount as revenue when the likelihood of the prepaid customer exercising its remaining rights becomes remote.

Interconnection fees and charges arising from the actual usage of airtime value or subscriptions are recorded as incurred.

Revenue from international and national long-distance calls carried via our network is generally based on rates which vary with distance and type of service (direct dial or operator-assisted, paid or collect, etc.). Revenue from both wireless and fixed line long distance calls is recognized as the service is provided. In general, non-refundable upfront fees, such as activation fees, that do not relate to the transfer of a promised good or service, are deferred and recognized as revenue throughout the estimated average length of the customer relationship, and the related incremental costs incurred are similarly deferred and recognized as expense over the same period, if such costs generate or enhance resources of the entity and are expected to be recovered.

Installation fees for voice services are considered as a single performance obligation together with monthly service fees, recognized over the customer subscription period since the subscriber cannot benefit from the installation services on its own or together with other resources that are readily available to the subscriber. Installation fees for data services are also not capable of being distinct from the sale of modem since the subscriber obtains benefit from the combined output of the installation services and the device, and is recognized upon delivery of the modem and performance of modem installation. The related incremental costs are recognized in the same manner in our consolidated income statements, if such costs are expected to be recovered.

ii. Bundled Contracts

In revenue arrangements, which involve bundled sales of mobile devices and accessories (non-service component), and telecommunication services (service component), the total transaction price is allocated based on the relative stand-alone selling prices of each distinct performance obligation. Stand-alone selling price is the price at which we sell the good or service separately to a customer. However, if goods or services are not currently offered separately, we use the adjusted market or cost-plus margin method to determine the stand-alone selling price to be used in the transaction price allocation. We adjust the transaction price for the effects of the time value of money if the timing of the payment and delivery of goods or services do not coincide, effects of which are considered as containing a significant financing component.

Revenues from the sale of non-service component are recognized at the point in time when the goods are delivered while revenues from telecommunication services component are recognized over on a straight-line basis over the contract period when the services are provided to subscribers.

Significant Financing Component

The non-service component included in contracts with customers have significant financing component considering the period between the time of the transfer of control over the mobile device and the customer's payment of the price of the mobile device, which is more than one year.

The transaction price for such contracts is determined by discounting the amount of promised consideration using the appropriate discount rate. We concluded that there is a significant financing component for those contracts where the customer elects to pay in arrears considering the length of time between the transfer of mobile device to the customer and the customer's payment, as well as the prevailing interest rates in the market adjusted with customer credit spread.

Customer Loyalty Program

We operate customer engagement and loyalty programs which allows customers to accumulate points when postpaid customers pay their bills on time and in full, purchase products or services, and load or top-up for prepaid customers once registered to the program. Customers may avail of the "MVP Rewards Card" for free, powered by PayMaya, which allows for instant conversion of points into the PayMaya wallet of the customer that can be used for all purchases transacted using the "MVP Rewards Card". The new customer loyalty program is not treated as separate performance obligation but as a reduction of revenue when earned, which is booked under loyalty expense.

iii. International and Domestic Long Distance Contracts

Interconnection revenues for call termination, call transit and network usages are recognized in the period in which the traffic occurs. Revenues related to local, long distance, network-to-network, roaming and international call connection services are recognized when the call is placed, or connection is provided, and the equivalent amounts charged to us by other carriers are recorded under interconnection costs in our consolidated income statements. Inbound revenue and outbound charges are based on agreed transit and termination rates with other foreign and local carriers.

Variable consideration

We assessed that a variable consideration exists in certain interconnection agreements where there is a monthly aggregation period and the rates applied for the total monthly traffic will depend on the total traffic for the month. We also consider whether contracts with carriers contain volume commitment or tiering arrangement whereby the rate being charged will change upon meeting certain volume of traffic. We estimate the amount of variable consideration to which we are entitled and include in the transaction price some or all of an amount of variable consideration estimated arising from these agreements, unless the impact is not material.

iv. Others

Revenues from VAS include streaming and downloading of games, music, video contents, loan services, messaging services, applications and other digital services which are only arranged for by us on behalf of third-party content providers. The amount of revenue recognized is net of content provider's share in revenue. Revenue is recognized upon service availability. We act as an agent for certain VAS arrangements.

Revenue from server hosting, co-location services and customer support services are recognized at point in time as the services are performed.

Contract balances

Contract assets

A contract asset is initially recognized for revenue earned from installation services because the receipt of consideration is conditional on successful completion of the installation. Upon completion of the installation and acceptance by the customer, the amount recognized as contract assets is reclassified to trade receivables when billed. Contract assets are subject to impairment assessment. Refer to accounting policies on impairment of financial assets in section *Financial instruments – initial recognition and subsequent measurement*.

Trade receivables

A receivable is recognized if an amount of consideration that is unconditional is due from the customer (i.e., only the passage of time is required before payment of the consideration is due). Refer to accounting policies of financial assets in section *Financial instruments – initial recognition and subsequent measurement*.

Contract liabilities and unearned revenues

A contract liability is the obligation to transfer goods or services to a customer for which we have received consideration (or an amount of consideration is due) from the customer. If a customer pays consideration before we transfer goods or services to the customer, a contract liability is recognized when the payment is made or the payment is due (whichever is earlier). Contract liabilities and unearned revenues are recognized as revenue when we perform under the contract.

Incremental costs to obtain contracts

We often give commissions and incentives to sales agent for meeting certain volume of new connections and corresponding value of plans contracted. These costs are incremental costs to obtain as we would have not incurred these if the contract had not been obtained. These are capitalized as an asset if these are expected to be recovered. Any capitalized incremental costs to obtain would be amortized and recognized as expense over customer subscription period.

Interest income

Interest income is recognized as it accrues on a time proportion basis taking into account the principal amount outstanding and the EIR.

Dividend income

Revenue is recognized when our right to receive the payment is identified.

Revenue – Prior to January 1, 2018

Revenue Recognition

Revenue is recognized to the extent that it is probable that the economic benefits will flow to us and the revenue can be reliably measured, regardless of when the payment is received. Revenue is measured at the fair value of the consideration received or receivable, taking into account contractually defined terms of payment and excluding value-added tax, or VAT, or overseas communication tax, or OCT, where applicable. When deciding the most appropriate basis for presenting revenue and cost of revenue, we assess our revenue arrangements against specific criteria to determine if we are acting as principal or agent. We consider both the legal form and the substance of our agreement, to determine each party's respective roles in the agreement. We are acting as a principal when we have the significant risks and rewards associated with the rendering of telecommunication services. When our role in a transaction is that of principal, revenue is presented on a gross basis, otherwise, revenue is presented on a net basis.

Service revenues

Our revenues are principally derived from providing the following telecommunications services: cellular voice and data services in the wireless business; and local exchange, international and national long distance, data and other network, and information and communications services in the fixed line business. When determining the amount of revenue to be recognized in any period, the overriding principle followed is to match the revenue with the provision of service. Services may be rendered separately or bundled with goods or other services. The specific recognition criteria are as follows:

Subscribers

We provide telephone, cellular and data communication services under prepaid and postpaid payment arrangements as follows:

Postpaid service arrangements include fixed monthly charges (including excess of consumable fixed monthly service fees) generated from postpaid cellular voice, short messaging services, or SMS, and data services through the postpaid plans of *Smart* and *Sun*, from cellular and local exchange services primarily through wireless, landline and related services, and from data and other network services primarily through broadband and leased line services, which we recognize on a straight-line basis over the customer's subscription period. Services provided to postpaid subscribers are billed throughout the month according to the billing cycles of subscribers. Services availed by subscribers in addition to these fixed fee arrangements are charged separately and recognized as the additional service is provided or as availed by the subscribers.

Our prepaid service revenues arise from the usage of airtime load from channels and prepaid cards provided by *Smart*, *TNT*, *SmartBro* and *Sun Broadband* brands. Proceeds from over-the-air reloading channels and prepaid cards are initially recognized as unearned revenue and realized upon actual usage of the airtime value (i.e., the pre-loaded airtime value of subscriber identification module, or SIM, cards and subsequent top-ups) for voice, SMS, multimedia messaging services, or MMS, content downloading (inclusive of browsing), infotext services and prepaid unlimited and bucket-priced SMS and call subscriptions, net of free SMS allocation and bonus credits (load package purchased, i.e., free additional SMS or minute calls or Peso credits), or upon expiration of the usage period, whichever comes earlier. Interconnection fees and charges arising from the actual usage of airtime value or subscriptions are recorded as incurred.

Revenue from international and national long-distance calls carried via our network is generally based on rates which vary with distance and type of service (direct dial or operator-assisted, paid or collect, etc.). Revenue from both wireless and fixed line long distance calls is recognized as the service is provided.

Non-recurring upfront fees such as activation fees charged to subscribers for connection to our network are deferred and are recognized as revenue throughout the estimated average length of customer relationship. The related incremental costs are similarly deferred and recognized over the same period in our consolidated income statement.

Connecting carriers

Interconnection revenues for call termination, call transit and network usages are recognized in the period in which the traffic occurs. Revenues related to local, long distance, network-to-network, roaming and international call connection services are recognized when the call is placed or connection is provided and the equivalent amounts charged to us by other carriers are recorded under interconnection costs in our consolidated income statement. Inbound revenue and outbound charges are based on agreed transit and termination rates with other foreign and local carriers.

Value-Added Services, or VAS

Revenues from VAS include MMS, downloading and streaming of content, applications and other digital services and infotext services. The amount of revenue recognized is net of payout to content provider's share in revenue. Revenue is recognized upon service availability.

Incentives

We operate customer loyalty programmes in our wireless business which allows customers to accumulate points when they purchase services or prepaid credits from us. The points can then be redeemed for free services and discounts, subject to a minimum number of points being obtained. Consideration received is allocated between the services and prepaid credits sold and the points issued, with the consideration allocated to the points equal to their value. The fair value of the points issued is deferred and recognized as revenue when the points are redeemed.

Product-based incentives provided to retailers and customers as part of a transaction are accounted for as multiple element arrangements and recognized when earned.

Multiple-deliverable arrangements

In revenue arrangements, which involve bundled sales of mobile devices, SIM cards/packs and accessories (non-service component) and telecommunication services (service component), the total arrangement consideration is allocated to each component based on their relative fair value to reflect the substance of the transaction. Revenue from the sale of non-service component are recognized when the goods are delivered while revenues from telecommunication services component are recognized when the services are provided to subscribers. When fair value is not directly observable, the total consideration is allocated using residual method.

Other services

Revenue from server hosting, co-location services and customer support services are recognized as the service are performed.

Non-service revenues

Revenues from handset and equipment sales are recognized when the significant risks and rewards of ownership of the goods have passed to the buyer, usually on delivery of the goods. The related cost or net realizable value of handsets or equipment, sold to customers is presented as "Cost of sales" in our consolidated income statement.

Interest income

Interest income is recognized as it accrues on a time proportion basis taking into account the principal amount outstanding and the EIR.

Dividend income

Revenue is recognized when our right to receive the payment is established.

Expenses

Expenses are recognized as incurred.

Provisions

We recognize a provision when we have a present obligation, legal or constructive, as a result of a past event, and when it is probable that an outflow of resources embodying economic benefits will be required to settle the obligation and a reliable estimate can be made of the amount of the obligation. When we expect some or all of a provision to be reimbursed, the reimbursement is recognized as a separate asset, but only when the reimbursement is virtually certain to be received if the entity settles the obligation. The expense relating to any provision is presented in our consolidated income statements, net of any reimbursements. If the effect of the time value of money is material, provisions are discounted using a current pre-tax rate that reflects, where appropriate, the risks specific to the liability. Where discounting is used, the increase in the provision due to the passage of time is recognized as interest expense in our consolidated income statements.

Retirement Benefits

PLDT and certain of its subsidiaries are covered under R.A. 7641 otherwise known as “The Philippine Retirement Law”.

Defined benefit pension plans

PLDT has separate and distinct retirement plans for itself and majority of its Philippine-based operating subsidiaries, administered by the respective Funds’ Trustees, covering permanent employees. Retirement costs are separately determined using the projected unit credit method. This method reflects services rendered by employees to the date of valuation and incorporates assumptions concerning employees’ projected salaries.

Retirement costs consist of the following:

- Service cost;
- Net interest on the net defined benefit asset or obligation; and
- Remeasurements of net defined benefit asset or obligation.

Service cost (which includes current service costs, past service costs and gains or losses on curtailments and non-routine settlements) is recognized as part of “Selling, general and administrative expenses – Compensation and employee benefits” account in our consolidated income statements. These amounts are calculated periodically by an independent qualified actuary.

Net interest on the net defined benefit asset or obligation is the change during the period in the net defined benefit asset or obligation that arises from the passage of time which is determined by applying the discount rate based on the government bonds to the net defined benefit asset or obligation. Net defined benefit asset is recognized as part of advances and other noncurrent assets and net defined benefit obligation is recognized as part of pension and other employee benefits in our consolidated statements of financial position.

Remeasurements, comprising actuarial gains and losses, return on plan assets and any change in the effect of the asset ceiling (excluding net interest on defined benefit obligation) are recognized immediately in other comprehensive income in the period in which they occur. Remeasurements are not classified to profit or loss in subsequent periods.

The net defined benefit asset or obligation comprises the present value of the defined benefit obligation (using a discount rate based on government bonds, as explained in *Note 3 – Management’s Use of Accounting Judgments, Estimates and Assumptions – Estimating pension benefit costs and other employee benefits*), net of the fair value of plan assets out of which the obligations are to be settled directly. Plan assets are assets held by a long-term employee benefit fund or qualifying insurance policies and are not available to our creditors nor can they be paid directly to us. Fair value is based on market price information and in the case of quoted securities, the published bid price and in the case of unquoted securities, the discounted cash flow using the income approach. The value of any defined benefit asset recognized is restricted to the asset ceiling which is the present value of any economic benefits available in the form of refunds from the plan or reductions in the future contributions to the plan. See *Note 26 – Pension and Other Employee Benefits – Defined Benefit Pension Plans* for more details.

Defined contribution plans

Smart and certain of its subsidiaries maintain a defined contribution plan that covers all regular full-time employees under which it pays fixed contributions based on the employees’ monthly salaries and provides for qualified employees to receive a defined benefit minimum guarantee. The defined benefit minimum guarantee is equivalent to a certain percentage of the monthly salary payable to an employee at normal retirement age with the required credited years of service based on the provisions of R.A. 7641.

Accordingly, Smart and certain of its subsidiaries account for their retirement obligation under the higher of the defined benefit obligation related to the minimum guarantee and the obligation arising from the defined contribution plan.

For the defined benefit minimum guarantee plan, the liability is determined based on the present value of the excess of the projected defined benefit obligation over the projected defined contribution obligation at the end of the reporting period. The defined benefit obligation is calculated annually by a qualified independent actuary using the projected unit credit method. Smart and certain of its subsidiaries determines the net interest expense (income) on the net defined benefit liability (asset) for the period by applying the discount rate used to measure the defined benefit obligation at the beginning of the annual period to the then net defined benefit liability (asset), taking into account any changes in the net defined benefit liability (asset) during the period as a result of contributions and benefit payments. Net interest expense (income) and other expenses (income) related to the defined benefit plan are recognized in our consolidated income statement.

The defined contribution liability, on the other hand, is measured at the fair value of the defined contribution assets upon which the defined contribution benefits depend, with an adjustment for margin on asset returns, if any, where this is reflected in the defined contribution benefits.

Remeasurements of the net defined benefit liability, which comprise actuarial gains and losses, the return on plan assets (excluding interest) and the effect of the asset ceiling (if any, excluding interest), are recognized immediately in our other comprehensive income.

When the benefits of the plan are changed or when the plan is curtailed, the resulting change in benefit that relates to past service or the gain or loss on curtailment is recognized immediately in our profit or loss. Gains or losses on the settlement of the defined benefit plan are recognized when the settlement occurs. See *Note 26 – Pension and Other Employee Benefits – Defined Contribution Plans* for more details.

Other Long-term Employee Benefits

Employee benefit costs include current service cost, net interest on the net defined benefit obligation, and remeasurements of the net defined benefit obligation. Past service costs and actuarial gains and losses are recognized immediately in our consolidated income statement.

The long-term employee benefit liability comprises the present value of the defined benefit obligation (using a discount rate based on government bonds) at the end of the reporting period and is determined using the projected unit credit method. See *Note 26 – Pension and Other Employee Benefits – Other Long-term Employee Benefits* for more details.

Transformation Incentive Plan, or TIP

PLDT provides incentive compensation to key officers, executives and other eligible participants in the PLDT Group in the form of PLDT Inc. common shares of stock, or Performance Shares, over a three-year vesting period from January 1, 2017 to December 31, 2019. The award of the performance shares is contingent on the achievement of Performance Targets based on PLDT Group's cumulative consolidated core net income.

The starting point of expense recognition is the date of grant, which is the date when the formal invitation letter was sent to the eligible participants. The fair value of the award (excluding the effect of any service and non-market performance vesting conditions) is determined at the grant date. At each subsequent reporting date until vesting, a best estimate of the cumulative charge to profit or loss at that date is computed. As the share-based payments vests in installments over the service period, the award is treated as expense over the vesting period.

On December 11, 2018, the Executive Compensation Committee, or ECC, of the Board approved Management's recommended modifications to the Plan, and partial equity and cash settled set-up was implemented for the 2019 TIP Grant. The revised set-up includes a fixed number of shares that will be granted ("equity award") and the estimated fair value of the difference between the number of shares granted in the original equity grant and the equity award will be paid in cash ("cash award"). The fair value of the cash award is determined at each reporting date using the estimated fair value of the corresponding shares. Please see *Note 3 – Management's Use of Accounting Judgments, Estimates and Assumptions – Estimating pension benefit cost and other employee benefits*.

Leases – Beginning January 1, 2019

We assess at contract inception whether the contract is, or contains, a lease. That is, if the contract conveys right to control the use of an identified asset for a period of time in exchange for a consideration.

As a Lessee. We apply a single recognition and measurement approach for all leases, except for short-term leases and leases of low-value assets. We recognize lease liabilities to make lease payments and ROU assets representing the right to use assets to the underlying assets.

- ROU assets

We recognize ROU assets at the commencement date of the lease (i.e., the date the underlying asset is available for use). ROU assets are measured at cost, less any accumulated depreciation and impairment losses, and adjusted for any remeasurement of lease liabilities. The cost of ROU assets includes the amount of lease liabilities recognized, initial direct costs incurred, and lease payments made at or before the commencement date less any lease incentives received. Unless it is reasonably certain that we obtain ownership of the leased asset at the end of the lease term, the recognized ROU assets are depreciated on a straight-line basis over the shorter of its estimated useful life and the lease term. ROU assets are subject to impairment. Refer to the accounting policies in impairment of non-financial assets section.

- Lease liabilities

At the commencement date of the lease, we recognize lease liabilities measured at the present value of lease payments to be made over the lease term. The lease payments include fixed payments (including in-substance fixed payments) less any lease incentives receivable, variable lease payments that depend on an index or a rate, and amounts expected to be paid under residual value guarantees. The lease payments also include the exercise price of a purchase option reasonably certain to be exercised and payments of penalties for terminating a lease, if the lease term reflects exercising the option to terminate. The variable lease payments that do not depend on an index or a rate are recognized as expense in the period on which the event or condition that triggers the payment occurs.

In calculating the present value of lease payments, we use the incremental borrowing rate at the lease commencement date if the interest rate implicit in the lease is not readily determinable. After the commencement date, the amount of lease liabilities is increased to reflect the accretion of interest and reduced for the lease payments made. In addition, the carrying amount of lease liabilities is remeasured if there is a modification, a change in the lease term, a change in the in-substance fixed lease payments or a change in the assessment to purchase the underlying asset.

- Short-term leases and leases of low-value assets

We apply the short-term lease recognition exemption to our short-term leases of machinery and equipment (i.e., those leases that have a lease term ending within 12 months from the commencement date and do not contain a purchase option). We also apply the lease of low-value assets recognition exemption to leases that are considered of low value (i.e., below Php250 thousand). Lease payments on short-term leases and leases of low-value assets are recognized as expense in our consolidated income statement on a straight-line basis over the lease term.

As a Lessor. Leases in which we do not transfer substantially all the risks and rewards incidental to ownership of an asset are classified as operating leases. Rental income is accounted for on a straight-line basis over the lease term and is included in revenue in our consolidated income statements due to its operating nature. Initial direct costs incurred in negotiating and arranging an operating lease are added to the carrying amount of the leased asset and recognized over the lease term on the bases as rental income.

Leases – Prior to January 1, 2019

The determination of whether an arrangement is, or contains, a lease is based on the substance of the arrangement at inception date. The arrangement is assessed for whether the fulfillment of the arrangement is dependent on the use of a specific asset or assets and the arrangement conveys a right to use the asset or assets, even if that right is not explicitly specified in an arrangement. A reassessment is made after the inception of the lease only if one of the following applies: (a) there is a change in contractual terms, other than a renewal or extension of the agreement; (b) a renewal option is exercised or extension granted, unless the term of the renewal or extension was initially included in the lease term; (c) there is a change in the determination of whether the fulfillment is dependent on a specified asset; or (d) there is a substantial change to the asset.

Where a reassessment is made, lease accounting shall commence or cease from the date when the change in circumstances gave rise to the reassessment for scenarios (a), (c) or (d) and the date of renewal or extension period for scenario (b).

As a Lessee. Leases where the lessor retains substantially all the risks and benefits of ownership of the assets are classified as operating leases. Operating lease payments are recognized as expense in our consolidated income statements on a straight-line basis over the lease term.

All other leases are classified as finance leases. A finance lease gives rise to the recognition of a leased asset and finance lease liability. Capitalized leased assets are depreciated over the shorter of the estimated useful life of the asset or the lease term, if there is no reasonable certainty that we will obtain ownership of the leased asset at the end of the lease term. Interest expense is recognized over the lease term using the EIR.

As a Lessor. Leases where we retain substantially all the risks and benefits of ownership of the asset are classified as operating leases. Any initial direct costs incurred in negotiating an operating lease are added to the carrying amount of the leased asset and recognized over the lease term on the same bases as rental income. Rental income is recognized in our consolidated income statements on a straight-line basis over the lease term.

All other leases are classified as finance leases. At the inception of the finance lease, the asset subject to lease agreement is derecognized and lease receivable is recognized. Interest income is accrued over the lease term using the EIR and lease amortization is accounted for as reduction of lease receivable.

Income Taxes

Current income tax

Current income tax assets and liabilities for the current and prior years are measured at the amount expected to be recovered from or paid to the taxation authorities. The tax rates and tax laws used to compute the amount are those that are enacted or substantively enacted as at the end of the reporting period where we operate and generate taxable income.

Current income tax relating to items recognized directly in equity is recognized in equity and not in our consolidated income statement. Management periodically evaluates positions taken in the tax returns with respect to situations in which applicable tax regulations are subject to interpretation and establishes provisions where appropriate.

Deferred income tax

Deferred income tax is provided on all temporary differences between the tax bases of assets and liabilities and their carrying amounts for financial reporting purposes at the end of the reporting period.

Deferred income tax liabilities are recognized for all taxable temporary differences except: (1) when the deferred income tax liability arises from the initial recognition of goodwill or of an asset or liability in a transaction that is not a business combination and, at the time of the transaction, affects neither the accounting profit nor taxable profit or loss; and (2) with respect to taxable temporary differences associated with investments in subsidiaries, associates and interest in joint ventures, when the timing of the reversal of the temporary differences can be controlled and it is probable that the temporary differences will not reverse in the foreseeable future.

Deferred income tax assets are recognized for all deductible temporary differences, the carryforward benefits of unused tax credits from excess minimum corporate income tax, or MCIT, over regular corporate income tax, or RCIT, and unused net operating loss carry over, or NOLCO. Deferred income tax assets are recognized to the extent that it is probable that taxable profit will be available against which the deductible temporary differences and carryforward benefits of unused tax credits and unused tax losses can be utilized, except: (1) when the deferred income tax asset relating to the deductible temporary difference arises from the initial recognition of an asset or liability in a transaction that is not a business combination and, at the time of the transaction, affects neither the accounting profit nor taxable profit or loss; and (2) with respect to deductible temporary differences associated with investments in subsidiaries, associates and interests in joint ventures, deferred income tax assets are recognized only to the extent that it is probable that the temporary differences will reverse in the foreseeable future and taxable profit will be available against which the temporary differences can be utilized.

The carrying amount of deferred income tax assets is reviewed at the end of each reporting period and reduced to the extent that it is no longer probable that sufficient taxable profit will be available to allow all or part of the deferred income tax assets to be utilized. Unrecognized deferred income tax assets are reassessed at the end of each reporting period and are recognized to the extent that it has become probable that future taxable profit will allow the deferred income tax assets to be recovered.

Deferred income tax assets and liabilities are measured at the tax rates that are expected to apply in the year when the asset is realized or the liability is settled, based on tax rates (and tax laws) that have been enacted or substantively enacted as at the end of the reporting period.

Deferred income tax relating to items recognized in “Other comprehensive income” account is included in our consolidated statements of comprehensive income and not in our consolidated income statements.

Deferred income tax assets and liabilities are offset, if a legally enforceable right exists to offset current income tax assets against current income tax liabilities and the deferred income taxes relate to the same taxable entity and the same taxation authority.

Tax benefits acquired as part of a business combination, but not satisfying the criteria for separate recognition at that date, would be recognized subsequently if new information about facts and circumstances changed. The adjustment would either be treated as a reduction to goodwill (as long as it does not exceed goodwill) if it is incurred during the measurement period or in our consolidated income statement.

VAT

Revenues, expenses and assets are recognized net of the amount of VAT, if applicable. When VAT from sales of goods and/or services (output VAT) exceeds VAT passed on from purchases of goods or services (input VAT), the excess is recognized as payable in our consolidated statements of financial position. When VAT passed on from purchases of goods or services (input VAT) exceeds VAT from sales of goods and/or services (output VAT), the excess is recognized as an asset in our consolidated statements of financial position to the extent of the recoverable amount.

Contingencies

Contingent liabilities are not recognized in our consolidated financial statements. They are disclosed in the notes to our consolidated financial statements unless the possibility of an outflow of resources embodying economic benefits is remote. Contingent assets are not recognized in our consolidated financial statements but are disclosed in the notes to our consolidated financial statements when an inflow of economic benefits is probable.

Events After the End of the Reporting Period

Post year-end events up to the date of approval of the Board of Directors that provide additional information about our financial position at the end of the reporting period (adjusting events) are reflected in our consolidated financial statements. Post year-end events that are not adjusting events are disclosed in the notes to our consolidated financial statements when material.

Equity

Preferred and common stocks are measured at par value for all shares issued. Incremental costs incurred directly attributable to the issuance of new shares are shown in equity as a deduction from proceeds, net of tax. Proceeds and/or fair value of considerations received in excess of par value are recognized as capital in excess of par value in our consolidated statement of changes in equity and consolidated statements of financial position.

Treasury stocks are our own equity instruments which are reacquired and recognized at cost and presented as reduction in equity. No gain or loss is recognized in our consolidated income statements on the purchase, sale, reissuance or cancellation of our own equity instruments. Any difference between the carrying amount and the consideration upon reissuance or cancellation of shares is recognized as capital in excess of par value in our consolidated statement of changes in equity and consolidated statements of financial position.

Change in the ownership interest of a subsidiary, without loss of control, is accounted for as an equity transaction and any impact is presented as part of capital in excess of par value in our consolidated statement of changes in equity.

Retained earnings represent our net accumulated earnings less cumulative dividends declared.

Other comprehensive income comprises of income and expense, including reclassification adjustments that are not recognized in our consolidated income statement as required or permitted by PFRS.

Standards Issued But Not Yet Effective

The standards and interpretations that are issued, but not yet effective, up to the date of issuance of the consolidated financial statements are listed below. We will adopt these standards and amendments to existing standards which are relevant to us when these become effective.

Effective beginning on or after January 1, 2020

- Amendments to PFRS 3, *Business Combination, Definition of a Business*

The amendments to PFRS 3 clarify the minimum requirements to be a business, remove the assessment of a market participant's ability to replace missing elements, and narrow the definition of outputs. The amendments also add guidance to assess whether an acquired process is substantive and add illustrative examples. An optional fair value concentration test is introduced which permits a simplified assessment of whether an acquired set of activities and assets is not a business.

An entity applies those amendments prospectively for annual reporting periods beginning on or after January 1, 2020, with earlier application permitted.

These amendments will apply on our future business combinations.

- Amendments to PAS 1, *Presentation of Financial Statements*, and PAS 8, *Accounting Policies, Changes in Accounting Estimates and Errors, Definition of Material*

The amendments refine the definition of material in PAS 1 and align the definition used across PFRSs and other pronouncements. They are intended to improve the understanding of the existing requirements rather than to significantly impact an entity's materiality judgments.

An entity applies those amendments prospectively for annual reporting periods beginning on or after January 1, 2020 with early application permitted.

These amendments will have no significant impact on our consolidated financial statements.

Effective beginning on or after January 1, 2021

- PFRS 17, *Insurance Contracts*

PFRS 17 is a comprehensive new accounting standard for insurance contracts covering recognition and measurement, presentation and disclosure. Once effective, PFRS 17 will replace PFRS 4, *Insurance Contracts*. This new standard on insurance contracts applies to all types of insurance contracts (i.e., life, non-life, direct insurance and re-insurance), regardless of the type of entities that issue them, as well as to certain guarantees and financial instruments with discretionary participation features. A few scope exceptions will apply.

The overall objective of PFRS 17 is to provide an accounting model for insurance contracts that is more useful and consistent for insurers. In contrast to the requirements in PFRS 4, which are largely based on grandfathering previous local accounting policies, PFRS 17 provides a comprehensive model for insurance contracts, covering all relevant accounting aspects. The core of PFRS 17 is the general model, supplemented by:

1. A specific adaptation for contracts with participation features (the variable fee approach); and
2. A simplified approach (the premium allocation approach) mainly for short-duration contracts.

PFRS 17 is effective for reporting periods beginning on or after January 1, 2021, with comparative figures required.

The standard will have no significant impact on our consolidated financial statements.

Deferred effectivity

- Amendments to PFRS 10, *Consolidated Financial Statements* and PAS 28, *Investments in Associates and Joint Ventures, Sale or Contribution of Assets between an Investor and its Associate or Joint Venture*

The amendments address the conflict between the PFRS 10 and PAS 28 in dealing with the loss of control of a subsidiary that is sold or contributed to an associate or joint venture. The amendments clarify that a full gain or loss is recognized when a transfer to an associate or joint venture involves a business as defined in PFRS 3. Any gain or loss resulting from the sale or contribution of assets that does not constitute a business, however, is recognized only to the extent of unrelated investors' interests in the associate or joint venture.

On January 13, 2016, the FRSC deferred the original effective date of January 1, 2016 of the said amendments until the International Accounting Standards Board completes its broader review of the research project on equity accounting that may result in the simplification of accounting for such transactions and of other aspects of accounting for associates and joint ventures. We are currently assessing the impact of this amendment.

3. Management's Use of Accounting Judgments, Estimates and Assumptions

The preparation of our consolidated financial statements in conformity with PFRS requires us to make judgments, estimates and assumptions that affect the reported amounts of our revenues, expenses, assets and liabilities and disclosure of contingent liabilities at the end of each reporting period. The uncertainties inherent in these assumptions and estimates could result in outcomes that could require a material adjustment to the carrying amount of the assets or liabilities affected in the future years.

Judgments and estimates are continually evaluated and are based on historical experience and other factors, including expectations of future events that are believed to be reasonable under the circumstances.

Judgments, key assumptions concerning the future, and other key sources of estimation uncertainty at the end of the reporting period, that have a significant risk of causing a material adjustment to the carrying amounts of assets and liabilities within the next reporting period are consistent with those applied in the most recent annual financial statements, except for those that relate to the adoption of PFRS 16. Selected critical judgments and estimates applied in the preparation of the annual consolidated financial statements as discussed below:

Judgments

In the process of applying our accounting policies, management has made judgments, apart from those involving estimations which have the most significant effect on the amounts recognized in our financial statements.

Revenue Recognition – Beginning January 1, 2018

Identifying performance obligations

We identify performance obligations by considering whether the promised goods or services in the contract are distinct goods or services. A good or service is distinct when the customer can benefit from the good or service on its own or together with other resources that are readily available to the customer and our promise to transfer the good or service to the customer is separately identifiable from the other promises in the contract.

Revenues earned from multiple element arrangements offered by our fixed line and wireless businesses are split into separately identifiable performance obligations based on their relative stand-alone selling price in order to reflect the substance of the transaction. The transaction price represents the best evidence of stand-alone selling price for the services we offer since this is the observable price we charge if our services are sold separately. We account for customer contracts in accordance with PFRS 15 and have concluded that the service (telecommunication service) and non-service components (handset or equipment) may be accounted for as separate performance obligations. The handset or equipment is delivered first, followed by the telecommunication service (which is provided over the contract/lock-in period of generally two years). Revenue attributable to the separate performance obligations are based on the allocation of the transaction price relative to the stand-alone selling price.

Installation fees for voice services are considered as a single performance obligation together with monthly service fees, recognized over the customer subscription period since the subscriber cannot benefit from the installation services on its own or together with other resources that are readily available to the subscriber. Installation fees for data services are also not capable of being distinct from the sale of modem since the subscriber obtains benefit from the combined output of the installation services and the device, and is recognized upon delivery of the modem and performance of modem installation.

Principal versus agent consideration

We enter into contracts with our customers involving multiple deliverable arrangements. We determined that we control the goods before they are transferred to customers, and we have the ability to direct the use of the inventory. The following factors indicate that we control the goods before they are being transferred to customers. Therefore, we determined that we are the principal in these contracts.

- We are primarily responsible for fulfilling the promise to provide the specified equipment;
- We bear inventory risk on our inventory before it has been transferred to the customer;
- We have discretion in establishing the prices for the other party's goods or services and, therefore, the benefit that we can receive from those goods or services is not limited. It is incumbent upon us to establish the price of our services to be offered to our subscribers; and
- Our consideration in these contracts is the entire consideration billed to the service provider.

Based on the foregoing, we are considered the principal in our contracts with other service providers except for certain VAS arrangements. We have the primary obligation to provide the services to the subscriber.

Timing of revenue recognition

We recognize revenue from contracts with customers over time or at a point in time depending on our evaluation of when the customer obtains control of the promised goods or services and based on the extent of progress towards completion of the performance obligation. For the telecommunication service which is provided over the contract period of two years, revenue is recognized monthly as we provide the service because control is transferred over time. For the device which is provided at the inception of the contract, revenue is recognized at the time of delivery because control is transferred at a point in time.

Identifying methods for measuring progress of revenue recognized over time

We determine the appropriate method of measuring progress which is either through the use of input or output methods. Input method recognizes revenue on the basis of the entity's efforts or inputs to the satisfaction of a performance obligation while output method recognizes revenue on the basis of direct measurements of the value to the customer of the goods or services transferred to date.

Revenue from telecommunication services is recognized through the use of input method wherein recognition is over time based on the customer subscription period since the customer simultaneously receives and consumes the benefits as the seller renders the services.

Significant financing component

We concluded that the handset component included in contracts with customers has a significant financing component considering the period between the time of the transfer of control over the handset and the customer's payment of the price of the handset, which is more than one year.

In determining the interest to be applied to the amount of consideration, we concluded that the interest rate is the market interest rate adjusted with credit spread to reflect the customer credit risk that is commensurate with the rate that would be reflected in a separate financing transaction between us and our customer at contract inception.

Estimation of stand-alone selling price

We assessed that the service and non-service components represent separate performance obligations and thus, the amount of revenues should be recognized based on the allocation of the transaction price to the different performance obligations based on their stand-alone selling prices. The stand-alone selling price is the price at which we sell the good or service separately to a customer. However, if goods or services are not currently offered separately, we use the adjusted market or cost-plus margin method to determine the stand-alone selling price to be used in the revenue allocation.

In terms of allocation of transaction price between performance obligations, we assessed that allocating the transaction price using the stand-alone selling prices of the services and handset will result in more revenue allocated to non-service component. The stand-alone selling price is based on the price in which we regularly sell the non-service and service component in a separate transaction.

Financial Instruments

Evaluation of business models in managing financial instruments

We determine our business model at the level that best reflects how we manage groups of financial assets to achieve our business objective. Our business model is not assessed on an instrument-by-instrument basis, but a higher level of aggregated portfolios and is based on observable factors such as:

- a. How the performance of the business model and the financial assets held within that business model are evaluated and reported to the entity's key management personnel;
- b. The risks that affect the performance of the business model (and the financial assets held within that business model) and, in particular, the way those risks are managed; and
- c. The expected frequency, value and timing of sales are also important aspects of our assessment.

The business model assessment is based on reasonably expected scenarios without taking 'worst case' or 'stress case' scenarios into account. If cash flows after initial recognition are realized in a way that is different from our original expectations, we do not change the classification of the remaining financial assets held in that business model, but incorporates such information when assessing newly originated or newly purchased financial assets going forward.

We have determined that for cash and cash equivalents, short-term investments, investment in debt securities and other long-term investments (*Note 13 – Debt Instruments at Amortized Cost*), and trade and other receivables, the business model is to collect the contractual cash flows until maturity. For receivables from MPIC, we have determined that its business model is to both collect contractual cash flows and sale of financial assets.

PFRS 9, however, emphasizes that if more than an infrequent number of sales are made out of a portfolio of financial assets carried at amortized cost, we should assess whether and how such sales are consistent with the objective of collecting contractual cash flows.

Definition of default and credit-impaired financial assets

We define a financial instrument as in default, which is fully aligned with the definition of credit-impaired, when it meets one or more of the following criteria:

- *Quantitative criteria*

For trade receivables and all other financial assets subject to impairment, default occurs when the receivable becomes 90 days past due, except for trade receivables from Corporate subscribers, which are determined to be in default when the receivables become 120 days past due.

- *Qualitative criteria*

The counterparty meets unlikeliness to pay criteria, which indicates the counterparty is in significant financial difficulty. These are instances where:

- a. The counterparty is experiencing financial difficulty or is insolvent;
- b. The counterparty is in breach of financial covenant(s);
- c. An active market for that financial assets has disappeared because of financial difficulties;
- d. Concessions have been granted by us, for economic or contractual reasons relating to the counterparty's financial difficulty;
- e. It is becoming probable that the counterparty will enter bankruptcy or other financial reorganization; and
- f. Financial assets are purchased or originated at a deep discount that reflects the incurred credit losses.

The criteria above have been applied to all financial instruments, except FVPL, held by us and are consistent with the definition of default used for internal credit risk management purposes. The default definition has been applied consistently to the ECL models throughout our expected loss calculation.

Significant increase in credit risk

At each reporting date, we assess whether there has been a significant increase in credit risk for financial assets since initial recognition by comparing the risk of default occurring over the expected life between the reporting date and the date of initial recognition. We consider reasonable and supportable information that is relevant and available without undue cost or effort for this purpose. This includes quantitative and qualitative information and forward-looking analysis.

An exposure will migrate through the ECL stages as asset quality deteriorates. If, in a subsequent period, asset quality improves and also reverses any previously assessed significant increase in credit risk since origination, then the loss allowance measurement reverts from lifetime ECL to 12-month ECL.

Using our judgment and, where possible, relevant historical experience, we may determine that an exposure has undergone a significant increase in credit risk based on particular qualitative indicators that we consider are indicative of such and whose effect may not otherwise be fully reflected in its quantitative analysis on a timely basis.

As a backstop, we consider that a significant increase in credit risk occurs no later than when an asset is more than 30 days past due. Days past due are determined by counting the number of days since the earliest elapsed due date in respect of which full payment has not been received. Due dates are determined without considering any grace period that might be available to the counterparty.

Exposures that have not deteriorated significantly since origination, or where the deterioration remains within our investment grade criteria, or which are less than 30 days past due, are considered to have a low credit risk. The provision for credit losses for these financial assets is based on a 12-month ECL. The low credit risk exemption has been applied on debt investments that meet the investment grade criteria of the PLDT Group.

Impairment of available-for-sale equity investments – Prior to January 1, 2018

For available-for-sale financial investments, we assess at each reporting date whether there is objective evidence that an investment or a group of investments is impaired.

In the case of equity investments classified as available-for-sale financial investments, objective evidence would include a significant or prolonged decline in the fair value of the investment below its cost. The determination of what is “significant” or “prolonged” requires judgment. We treat “significant” generally as decline of 20% or more below the original cost of investment, and “prolonged” as greater than 12 months assessed against the period in which the fair value has been below its original cost.

Based on our judgment, the decline in fair value of our investment in Rocket Internet SE, or Rocket Internet, was considered significant as the cumulative net losses from changes in fair value represented more than 20% decline in value below cost. As a result, total cumulative impairment losses recognized on our investment in Rocket Internet amounted to Php11,045 million as at December 31, 2017. Impairment losses charged in our consolidated income statement amounted to Php540 million for the year ended December 31, 2017. See related discussion on *Note 12 – Financial Assets at FVPL – Investment of PLDT Online in Rocket Internet*.

Determination of functional currency

The functional currencies of the entities under the PLDT Group are the currency of the primary economic environment in which each entity operates. It is the currency that mainly influences the revenue from and cost of rendering products and services.

The presentation currency of the PLDT Group is the Philippine Peso. Based on the economic substance of the underlying circumstances relevant to the PLDT Group, the functional currency of all entities under PLDT Group is the Philippine Peso, except for (a) SMHC, FECL Group, PLDT Global and certain of its subsidiaries, PGNL and certain of its subsidiaries, Chikka and certain of its subsidiaries and PGIC, which uses the U.S. Dollar; (b) iCommerce, CPL and AGSPL, which uses the Singaporean Dollar; and (c) AGS Indonesia, which uses the Indonesian Rupiah.

Reclassification of certain land and building from investment property to property and equipment

In 2018, ePLDT reclassified certain land and building amounting to Php1,236 million from investment property to property and equipment because of the change in use of the assets. Prior to reclassification, these land and building were previously held for rental to third party lessees up to the end of the lease arrangement in 2018. Management decided not to renew the lease contracts but instead use the land and building for business operations. As such, management believes that the reclassification to property and equipment is appropriate given the change in use of these assets. See *Note 14 – Investment Properties*.

Determining the lease term of contracts with renewal and terminal options – Company as a Lessee – Beginning January 1, 2019

Upon adoption of PFRS 16, we applied a single recognition and measurement approach for all leases, except for short-term leases and leases of ‘low-value’ assets. See Section *Leases* for the accounting policy beginning January 1, 2019.

We determine the lease term as the non-cancellable term of the lease, together with any periods covered by an option to extend the lease if it is reasonably certain to be exercised, or any periods covered by an option to terminate the lease, if it is reasonably certain not to be exercised.

We, as the lessee, have the option, under some of our lease agreements to lease the assets for additional terms. We apply judgment in evaluating whether it is reasonably certain to exercise the option to renew. That is, we consider all relevant factors that create an economic incentive for us to exercise the renewal. After the commencement date, we reassess the lease term if there is a significant event or change in circumstances that is within our control and affects our ability to exercise or not to exercise the option to renew or to terminate (e.g., a change in business strategy).

We included the renewal period as part of the lease term for leases such as poles and leased circuits due to the significance of these assets to our operations. These leases have a non-cancellable period (i.e., one to 30 years) and there will be a significant negative effect on our provision of services if a replacement is not readily available. Furthermore, the periods covered by termination options are included as part of these lease term only when they are reasonably certain not to be exercised.

Total depreciation of ROU assets amounted to Php4,393 million for the year ended December 31, 2019. Total lease liabilities amounted to Php16,315 million as at December 31, 2019. See *Note 2 – Summary of Significant Accounting Policies, Note 5 – Income and Expenses – Selling, General and Administrative Expenses, Note 10 – Leases and Note 28 – Financial Assets and Liabilities.*

Leases – Prior to January 1, 2019

As a lessee, we have various lease agreements in respect of certain equipment and properties. We evaluate whether significant risks and rewards of ownership of the leased properties are transferred to us (finance lease) or retained by the lessor (operating lease) based on PAS 17. Total lease expense amounted to Php7,321 million and Php7,016 million for the years ended December 31, 2018 and 2017, respectively. Total finance lease obligations amounted to Php514 thousand as at December 31, 2018. See *Note 2 – Summary of Significant Accounting Policies, Note 5 – Income and Expenses – Selling, General and Administrative Expenses, Note 21 – Interest-bearing Financial Liabilities – Obligations under Finance Leases and Note 28 – Financial Assets and Liabilities.*

Accounting for investment in Multisys Technologies Corporation, or Multisys

On December 3, 2018, PGIH completed the closing of its investment in Multisys. Out of the Php550 million total consideration for the acquisition of existing shares, PGIH paid Php523 million to the owners of Multisys. Further, PGIH invested Php800 million into Multisys as a deposit for future stock subscription pending the approval by the Philippine SEC of the capital increase of Multisys. On February 1, 2019, the Philippine SEC approved the capital increase of Multisys.

Based on our judgment, at the PLDT Group level, PGIH's investment in Multisys gives PGIH a joint control in Multisys and thus is accounted for as investment in joint venture using the equity method of accounting in accordance with PAS 28, *Investments in Associates and Joint Ventures*. See *Note 11 – Investment in Associates and Joint Ventures – Investment in Joint Ventures – Investment of PGIH in Multisys.*

Accounting for investments in MediaQuest Holdings, Inc., or MediaQuest, through Philippine Depositary Receipts, or PDRs

ePLDT made various investments in PDRs issued by MediaQuest in relation to its direct interest in Satventures, Inc., or Satventures, and Hastings Holdings, Inc., or Hastings, and indirect interest in Cignal TV, Inc., or Cignal TV.

Based on our judgment, at the PLDT Group level, ePLDT's investments in PDRs gives ePLDT a significant influence over Satventures, Hastings and Cignal TV as evidenced by provision of essential technical information and material transactions among PLDT, Smart, Satventures, Hastings and Cignal TV, and thus are accounted for as investments in associates using the equity method.

On February 15, 2018, ePLDT ceased to have any economic interest in Hastings as a result of the assignment of the Hastings PDRs to PLDT Beneficial Trust Fund.

See related discussion on *Note 11 – Investments in Associates and Joint Ventures – Investments in Associates – Investment of ePLDT in MediaQuest PDRs.*

Assessment of loss of control over VIH

PLDT assesses the consequences of changes in the ownership interest in a subsidiary that may result in a loss of control as well as the consequence of losing control of a subsidiary during the reporting period. Whether or not PLDT retains control over the subsidiary depends on an evaluation of a number of factors that indicate if there are changes to one or more of the three elements of control. When PLDT has less than majority of the voting rights or similar rights to an investee, PLDT considers all relevant facts and circumstances in assessing whether it has power over an investee, including, among others, representation on its board of directors, voting rights, and other rights of other investors, including their participation in significant decisions made in the ordinary course of business.

As a result of the subscription of the new investors in VIH, PCEV's ownership interest was diluted to 48.74% and retained only two out of the five Board of Director seats in the investee. Consequently, as at November 28, 2018, PLDT lost its control on VIH and accounted for its remaining interest as investment in an associate. See *Note 11 – Investments in Associates and Joint Ventures – Investments in Associates – Investment of PCEV in VIH*.

Accounting for investments in Vega Telecom Inc., or VTI, Bow Arken Holdings Company, or Bow Arken, and Brightshare Holdings, Inc., or Brightshare

On May 30, 2016, PLDT acquired a 50% equity interest in each of VTI, Bow Arken and Brightshare. See related discussion on *Note 11 – Investments in Associates and Joint Ventures – Investments in Joint Ventures*. Based on the Memorandum of Agreement, PLDT and Globe Telecom, Inc., or Globe, each have the right to appoint half the members of the Board of Directors of each of VTI, Bow Arken and Brightshare, as well as the (i) co-Chairman of the Board; (ii) co-Chief Executive Officer and President; and (iii) co-Controller where any matter requiring their approval shall be deemed passed or approved if the consents of both co-officers holding the same position are obtained. All decisions of each Board of Directors may only be approved if at least one director nominated by each of PLDT and Globe votes in favor of it.

Based on these rights, PLDT and Globe have joint control over VTI, Bow Arken and Brightshare, which is defined in PFRS 11, *Joint Arrangements*, as a contractually agreed sharing of control of an arrangement and exists only when decisions about the relevant activities require the unanimous consent of the parties sharing control. Consequently, PLDT and Globe classified the joint arrangement as a joint venture in accordance with PFRS 11 given that PLDT and Globe each have the right to 50% of the net assets of VTI, Bow Arken and Brightshare and their respective subsidiaries.

Accordingly, PLDT accounted for the investment in VTI, Bow Arken and Brightshare using the equity method of accounting in accordance with PAS 28. Under the equity method of accounting, the investment is initially recognized at cost and adjusted thereafter for the post-acquisition change in the investor's share of the investee's net assets. See *Note 11 – Investment in Associates and Joint Ventures – Investment in Joint Ventures – Investments of PLDT in VTI, Bow Arken and Brightshare*.

Accounting for investment in Beacon Electric Asset Holdings, Inc., or Beacon, under equity method

PAS 28 provides that where an entity holds 20% or more of the voting power (directly or through subsidiaries) on an investee, it will be presumed that the investor has significant influence, unless it can be clearly demonstrated that this is not the case. If the ownership interest is less than 20%, the entity will be presumed not to have significant influence unless such influence can be clearly demonstrated.

PCEV entered into Share Purchase Agreement with MPIC on May 30, 2016 and June 13, 2017, to sell its equity interest in Beacon for a total consideration of Php26,200 million and Php21,800 million, respectively. Upon closing of these sale transactions, MPIC settled portion of the considerations and the balances are being paid in annual installments until June 2021. MPIC agreed that for as long as: (a) PCEV owns at least 20% of the outstanding capital stock of Beacon; or (b) the purchase price has not been fully paid by MPIC, PCEV shall retain the right to vote 50% of the outstanding capital stock of Beacon. The unpaid balance from MPIC is measured at fair value using discounted cash flow valuation method, with interest income to be accreted over the term of the receivable.

After full divestment, PCEV continues to hold its representation in the Board of Directors and participate in decision making. PCEV retained 50% proxy voting right. The role of the representative of PCEV in the Board of Directors is not to jointly control the business but to ensure security of the payment of its outstanding receivables. Thus, PCEV will remain to hold significant influence over Beacon. See *Note 11 – Investments in Associates and Joint Ventures – Investments in Joint Ventures – Investment of PCEV in Beacon*.

Material partly-owned subsidiaries

Our consolidated financial statements include additional information about subsidiaries that have non-controlling interest, or NCI, that are material to us, see *Note 6 – Components of Other Comprehensive Loss*. We determined material partly-owned subsidiaries as those with balance of NCI greater than 5% of the total equity as at December 31, 2019 and 2018.

Material associates and joint ventures

Our consolidated financial statements include additional information about associates and joint ventures that are material to us. See *Note 11 – Investments in Associates and Joint Ventures*. We determined material associates and joint ventures are those investees where our carrying amount of investments is greater than 5% of the total investments in associates and joint ventures as at December 31, 2019 and 2018.

Determining Taxable Profit, Tax Bases, Unused Tax Losses, Unused Tax Credits and Tax Rates

Upon adoption of the Philippine Interpretation IFRIC 23, we assess whether we have any uncertain tax position and applies significant judgment in identifying uncertainties over our income tax treatments. We determined based on our assessment that it is probable that our income tax treatments (including those for the subsidiaries) will be accepted by the taxation authorities. Accordingly, the interpretation did not have a significant impact on our consolidated financial statements.

Estimates and Assumptions

The key estimates and assumptions concerning the future and other key sources of estimation uncertainty at the end of the reporting period that have a significant risk of causing a material adjustment to the carrying amounts of assets and liabilities recognized in our consolidated financial statements within the next financial year are discussed below. We based our estimates and assumptions on parameters available when our consolidated financial statements were prepared. Existing circumstances and assumptions about future developments, however, may change due to market changes or circumstances arising beyond our control. Such changes are reflected in the assumptions when they occur.

Leases – Estimating the incremental borrowing rate, or IBR – Beginning January 1, 2019

In calculating the present value of lease payments, we use the IBR at the lease commencement date if the interest rate implicit in the lease is not readily determinable. IBR is the rate of interest that a lessee would have to pay to borrow over a similar term, similar security, the funds necessary to obtain an asset of a similar value to the ROU asset in a similar economic environment.

We use benchmark rates from partner banks based on the tenor of our loan borrowings plus a spread adjustment based on our credit worthiness.

Our lease liabilities amounted to Pphp16,315 million as at December 31, 2019. See *Note 2 – Summary of Significant Accounting Policies – PFRS 16, Leases* and *Note 10 – Leases*.

Loss of control over VIH – Fair value measurement of interest retained

A deemed disposal occurs where the proportionate interest of PLDT in a subsidiary is reduced other than by an actual disposal, for example, by the issuance of shares to a third party investor by the subsidiary. When PLDT no longer has control, the remaining interest is measured at fair value as at the date the control was lost. In determining the fair value of PLDT's retained interest in VIH, we take into account recent transactions and all the facts and circumstances surrounding the transactions such as timing, transaction size, transaction frequency, and motivations of the investors. We carefully assess the accounting implications of the stipulation in the shareholders' agreements and consider whether such a transaction has been made at arm's length. See *Note 11 – Investments in Associates and Joint Ventures – Investments in Associates – Investment of PCEV in VIH*.

Impairment of non-financial assets

PFRS requires that an impairment review be performed when certain impairment indicators are present. In the case of goodwill and intangible assets with indefinite useful life, at a minimum, such assets are subject to an impairment test annually and whenever there is an indication that such assets may be impaired. This requires an estimation of the VIU of the CGUs to which these assets are allocated. The VIU calculation requires us to make an estimate of the expected future cash flows from the CGU and to choose a suitable discount rate in order to calculate the present value of those cash flows. See *Note 15 – Goodwill and Intangible Assets – Impairment Testing of Goodwill and Intangible Assets with Indefinite Useful Life* for the key assumptions used to determine the VIU of the relevant CGUs.

Determining the recoverable amount of property and equipment, ROU assets, investments in associates and joint ventures, goodwill and intangible assets, prepayments and other noncurrent assets, requires us to make estimates and assumptions in the determination of future cash flows expected to be generated from the continued use and ultimate disposition of such assets. Future events could cause us to conclude that property and equipment, investments in associates and joint ventures, intangible assets and other noncurrent assets associated with an acquired business are impaired. Any resulting impairment loss could have a material adverse impact on our financial position and financial performance.

The preparation of estimated future cash flows involves significant estimations and assumptions of future market conditions. While we believe that our assumptions are appropriate and reasonable, significant changes in our assumptions may materially affect our assessment of recoverable values and may lead to future impairment charges under PFRS.

Total asset impairment recognized on noncurrent assets amounted to nil, Php2,122 million and Php3,913 million for the years ended December 31, 2019, 2018 and 2017, respectively. See *Note 4 – Operating Segment Information, Note 5 – Income and Expenses – Asset Impairment and Note 9 – Property and Equipment – Impairment of Certain Wireless Network Equipment and Facilities*.

The carrying values of our property and equipment, ROU assets, investments in associates and joint ventures, investment properties, goodwill and intangible assets, and prepayments are separately disclosed in *Note 9 – Property and Equipment, Note 10 – Leases, Note 11 – Investments in Associates and Joint Ventures, Note 14 – Investment Properties, Note 15 – Goodwill and Intangible Assets and Note 19 – Prepayments*, respectively.

Estimating useful lives of property and equipment

We estimate the useful lives of each item of our property and equipment based on the periods over which our assets are expected to be available for use. Our estimation of the useful lives of our property and equipment is also based on our collective assessment of industry practice, internal technical evaluation and experience with similar assets. The estimated useful lives of each assets are reviewed every year-end and updated if expectations differ from previous estimates due to physical wear and tear, technical or commercial obsolescence and legal or other limitations on the use of our assets. It is possible, however, that future results of operations could be materially affected by changes in our estimates brought about by changes in the factors mentioned above. The amounts and timing of recorded expenses for any period would be affected by changes in these factors and circumstances. A reduction in the estimated useful lives of our property and equipment would increase our recorded depreciation and decrease the carrying amount of our property and equipment.

In 2019, 2018 and 2017, we shortened the estimated useful lives of certain data network platform and other technology equipment resulting from the transformation projects to improve and simplify the network and systems applications. As a result, we recognized additional depreciation amounting to Php2,048 million, Php15,807 million and Php19,481 million for the years ended December 31, 2019, 2018 and 2017, respectively. We expect additional depreciation arising from the acceleration of estimated useful lives of the technology equipment in 2019 amounting to Php1,458 million, Php1,397 million and Php46 million in 2020, 2021 and each of the years 2022 and 2023, respectively.

In 2019, we increased the estimated useful life of certain information origination and termination equipment and central office equipment due to technology advancement allowing longer economic life of the subscriber equipment. As a result, we recognized a decrease in depreciation amounting to Php1,719 million for the year ended December 31, 2019.

The total depreciation and amortization of property and equipment amounted to Php35,263 million, Php47,240 million and Php51,915 million for the years ended December 31, 2019, 2018 and 2017, respectively. Total carrying values of property and equipment, net of accumulated depreciation and amortization, amounted to Php232,134 million and Php195,964 million as at December 31, 2019 and 2018, respectively. See *Note 2 – Summary of Significant Accounting Policies, Note 4 – Operating Segment Information* and *Note 9 – Property and Equipment*.

Estimating useful lives of intangible assets with finite lives

Intangible assets with finite lives are amortized over their expected useful lives using the straight-line method of amortization. At a minimum, the amortization period and the amortization method for an intangible asset with a finite useful life are reviewed at least at each financial year-end. Changes in the expected useful life or the expected pattern of consumption of future economic benefits embodied in the asset are accounted for by changing the amortization period or method, as appropriate, and treated as changes in accounting estimates. The amortization expense on intangible assets with finite lives is recognized in our consolidated income statements.

The total amortization of intangible assets with finite lives amounted to Php758 million, Php892 million and Php835 million for the years ended December 31, 2019, 2018 and 2017, respectively. Total carrying values of intangible assets with finite lives amounted to Php1,941 million and Php2,699 million as at December 31, 2019 and 2018, respectively. See *Note 2 – Summary of Significant Accounting Policies, Note 4 – Operating Segment Information, Note 5 – Income and Expenses – Selling, General and Administrative Expenses* and *Note 15 – Goodwill and Intangible Assets*.

Recognition of deferred income tax assets

We review the carrying amounts of deferred income tax assets at the end of each reporting period and reduce these to the extent that these are no longer probable that sufficient taxable income will be available to allow all or part of the deferred income tax assets to be utilized. Our assessment on the recognition of deferred income tax assets on deductible temporary differences is based on the level and timing of forecasted taxable income of the subsequent reporting periods. This forecast is based on our past results and future expectations on revenues and expenses as well as future tax planning strategies. Based on this, management expects that we will generate sufficient taxable income to allow all or part of our deferred income tax assets to be utilized.

Based on the above assessment, our consolidated unrecognized deferred income tax assets amounted to Php2,294 million and Php3,227 million as at December 31, 2019 and 2018, respectively. Total consolidated provision from deferred income tax amounted to Php6,267 million and Php1,375 million for the years ended December 31, 2019 and 2018, respectively, while total consolidated benefit from deferred income tax amounted to Php2,738 million for the year ended December 31, 2017. Total consolidated recognized net deferred income tax assets amounted to Php23,623 million and Php27,697 million as at December 31, 2019 and 2018, respectively. See *Note 2 – Summary of Significant Accounting Policies*, *Note 4 – Operating Segment Information* and *Note 7 – Income Taxes*.

Estimating allowance for expected credit losses – Beginning January 1, 2018

a. Measurement of ECLs

ECLs are derived from unbiased and probability-weighted estimates of expected loss, and are measured as follows:

- *Financial assets that are not credit-impaired at the reporting date:* as the present value of all cash shortfalls over the expected life of the financial asset discounted by the EIR. The cash shortfall is the difference between the cash flows due to us in accordance with the contract and the cash flows that we expect to receive; and
- *Financial assets that are credit-impaired at the reporting date:* as the difference between the gross carrying amount and the present value of estimated future cash flows discounted by the EIR.

We leverage existing risk management indicators (e.g. internal credit risk classification and restructuring triggers), credit risk rating changes and reasonable and supportable information which allow us to identify whether the credit risk of financial assets has significantly increased.

b. Inputs, assumptions and estimation techniques

- *General approach for cash in bank, short-term investments, debt securities and financial assets at FVOCI and advances and other noncurrent assets*

The ECL is measured on either a 12-month or lifetime basis depending on whether a significant increase in credit risk has occurred since initial recognition or whether an asset is considered to be credit-impaired. We consider the probability of our counterparty to default its obligation and the expected loss at default after considering the effects of collateral, any potential value when realized and time value of money.

The assumptions underlying the ECL calculation are monitored and reviewed on a quarterly basis.

- *Simplified approach for trade and other receivables and contract assets*

We use a simplified approach for calculating ECL on trade and other receivables and contract assets. We consider historical days past due for groupings of various customer segments that have similar loss patterns and remaining time to maturities.

We use historical observed default rates and adjust these historical credit loss experience with forward-looking information. At every reporting date, the historical observed default rates are updated and changes in the forward-looking estimates are analyzed.

There have been no significant changes in estimation techniques or significant assumptions made during the reporting period.

- *Incorporation of forward-looking information*

We incorporate forward-looking information into both our assessment of whether the credit risk of an instrument has increased significantly since its initial recognition and our measurement of ECL.

To do this, management considered a range of relevant forward-looking macro-economic assumptions for the determination of unbiased general industry adjustments and any related specific industry adjustments that support the calculation of ECLs.

The macro-economic factors are aligned with information used by us for other purposes such as strategic planning and budgeting.

We have identified and documented key drivers of credit risk and credit losses of each portfolio of financial instruments and, using an analysis of historical data, has estimated relationships between macro-economic variables and credit risk and credit losses.

Predicted relationship between the key indicators and default and loss rates on various portfolios of financial assets have been developed based on analyzing historical data over the past three to eight years. The methodologies and assumptions including any forecasts of future economic conditions are reviewed regularly.

We have not identified any uncertain event that it has assessed to be relevant to the risk of default occurring but where we are not able to estimate the impact on ECL due to lack of reasonable and supportable information.

Total provision for expected credit losses for trade and other receivables amounted to Php4,071 million, Php4,192 million and Php3,438 million for the years ended December 31, 2019, 2018 and 2017, respectively. Trade and other receivables, net of allowance for expected credit losses, amounted to Php22,436 million and Php24,056 million as at December 31, 2019 and 2018, respectively. See *Note 5 – Income and Expenses* and *Note 17 – Trade and Other Receivables*.

Total provision for expected credit losses for contract assets amounted to Php291 million and Php223 million for the years ended December 31, 2019 and 2018, respectively. Contract assets, net of allowance for expected credit losses, amounted to Php2,747 million and Php3,268 million as at December 31, 2019 and 2018, respectively. See *Note 5 – Income and Expenses* and *Note 17 – Trade and Other Receivables*.

- *Grouping of instruments for losses measured on collective basis*

A broad range of forward-looking information were considered as economic inputs such as the gross domestic product, inflation rate, unemployment rates and other economic indicators. For expected credit loss provisions modelled on a collective basis, a grouping of exposures is performed on the basis of shared risk characteristics, such that risk exposures within a group are homogeneous. In performing this grouping, there must be sufficient information for the PLDT Group to be statistically credible. Where sufficient information is not available internally, then we have considered benchmarking internal/external supplementary data to use for modelling purposes. The characteristics and any supplementary data used to determine groupings are outlined below.

Trade receivables – Groupings for collective measurement

- a. Retail subscribers;
- b. Corporate subscribers;
- c. Foreign administrations and domestic carriers; and
- d. Dealers, agents and others.

The following credit exposures are assessed individually:

- All stage 3 assets, regardless of the class of financial assets; and
- The cash and cash equivalents, investment in debt securities and financial assets at FVOCI, and other financial assets.

Estimating allowance for doubtful accounts – Prior to January 1, 2018

If we assessed that there was objective evidence that an impairment loss was incurred in our trade and other receivables, we estimate the allowance for doubtful accounts related to our trade and other receivables that are specifically identified as doubtful of collection. The amount of allowance is evaluated by management on the basis of factors that affect the collectability of the accounts. In these cases, we use judgment based on all available facts and circumstances, including, but not limited to, the length of our relationship with the customer and the customer's credit status based on third party credit reports and known market factors, to record specific reserves for customers against amounts due in order to reduce our receivables to amounts that we expect to collect. These specific reserves are re-evaluated and adjusted as additional information received affects the amounts estimated.

In addition to specific allowance against individually significant receivables, we also assess a collective impairment allowance against credit exposures of our customer which were grouped based on common credit characteristics, which, although not specifically identified as requiring a specific allowance, have a greater risk of default than when the receivables were originally granted to customers. This collective allowance is based on historical loss experience using various factors, such as historical performance of the customers within the collective group, deterioration in the markets in which the customers operate, and identified structural weaknesses or deterioration in the cash flows of customers.

Total provision for doubtful accounts for trade and other receivables amounted to Php3,438 million for the year ended December 31, 2017. Trade and other receivables, net of allowance for doubtful accounts, amounted to Php33,761 million as at December 31, 2017. See *Note 4 – Operating Segment Information* and *Note 5 – Income and Expenses*.

Estimating pension benefit costs and other employee benefits

The cost of defined benefit and present value of the pension obligation are determined using the projected unit credit method. An actuarial valuation includes making various assumptions which consists, among other things, discount rates, rates of compensation increases and mortality rates. Further, our accrued benefit cost is affected by the fair value of the plan assets. Key assumptions used to estimate fair value of the unlisted equity investments included in the plan assets consist of revenue growth rate, direct costs, capital expenditures, discount rates and terminal growth rates. See *Note 26 – Pension and Other Employee Benefits*. Due to complexity of valuation, the underlying assumptions and its long-term nature, a defined benefit obligation is highly sensitive to changes in assumptions. While we believe that our assumptions are reasonable and appropriate, significant differences in our actual experience or significant changes in our assumptions may materially affect our cost for pension and other retirement obligations. All assumptions are reviewed every year-end.

Net consolidated pension benefit costs amounted to Php1,018 million, Php1,855 million and Php1,610 million for the years ended December 31, 2019, 2018 and 2017, respectively. The prepaid benefit costs amounted to Php342 million and Php393 million as at December 31, 2019 and 2018, respectively. The accrued benefit costs amounted to Php8,985 million and Php7,182 million as at December 31, 2019 and 2018, respectively. See *Note 5 – Income and Expenses – Compensation and Employee Benefits*, *Note 19 – Prepayments* and *Note 26 – Pension and Other Employee Benefits*.

On September 26, 2017, the Board of Directors of PLDT approved the TIP which intends to provide incentive compensation to key officers, executives and other eligible participants who are consistent performers and contributors to the Company’s strategic and financial goals. The incentive compensation will be in the form of Performance Shares, PLDT common shares of stock, which will be released in three annual grants on the condition, among others, that pre-determined consolidated core net income targets are successfully achieved over three annual performance periods from January 1, 2017 to December 31, 2019. On September 26, 2017, the Board of Directors approved the acquisition of 860 thousand Performance Shares to be awarded under the TIP. On March 7, 2018, the ECC of the Board approved the acquisition of additional 54 thousand shares, increasing the total Performance Shares to 914 thousand. Metropolitan Bank and Trust Company, or Metrobank, through its Trust Banking Group, is the appointed Trustee of the trust established for purposes of the TIP. The Trustee is designated to acquire the PLDT common shares in the open market through the facilities of the PSE, and administer their distribution to the eligible participants subject to the terms and conditions of the TIP.

On December 11, 2018, the ECC of the Board approved Management’s recommended modifications to the Plan, and partial equity and cash settled set-up was implemented for the 2019 TIP Grant. The revised set-up includes a fixed number of shares that will be granted (“equity award”) and the estimated fair value of the difference between the number of shares granted in the original equity grant and the equity award will be paid in cash (“cash award”). The fair value of the award is determined at each reporting date using the estimated fair value of the corresponding shares.

As at March 31, 2020, a total of 757 thousand PLDT common shares have been acquired by the Trustee, of which 236 thousand, 302 thousand and 204 thousand PLDT common shares have been released to the eligible participants on March 12, 2020 for the 2019 annual grant, on March 28, 2019 for the 2018 annual grant and on April 5, 2018 for the 2017 annual grant, respectively. The cash award for the 2019 annual grant that was paid on March 12, 2020 amounted to Php654 million. The TIP is administered by the ECC of the Board. The expense accrued for the TIP amounted to Php638 million, Php208 million and Php827 million for the years ended December 31, 2019, 2018 and 2017, respectively. The accrued incentive payable, representing the cash settled set-up amounted to Php795 million as at December 31, 2019. See *Note 5 – Income and Expenses – Compensation and Employee Benefits* and *Note 26 – Pension and Other Employee Benefits – Other Long-term Employee Benefits*.

Provision for asset retirement obligations

Provision for asset retirement obligations are recognized in the period in which these are incurred if a reasonable estimate can be made. This requires an estimation of the cost to restore or dismantle on a per square meter basis, depending on the location, and is based on the best estimate of the expenditure required to settle the obligation at the future restoration or dismantlement date, discounted using a pre-tax rate that reflects the current market assessment of the time value of money and, where appropriate, the risk specific to the liability. Total provision for asset retirement obligations amounted to Php1,767 million and Php1,656 million as at December 31, 2019 and 2018, respectively. See *Note 22 – Deferred Credits and Other Noncurrent Liabilities*.

Provision for legal contingencies and tax assessments

We are currently involved in various legal proceedings and tax assessments. Our estimates of the probable costs for the resolution of these claims have been developed in consultation with our counsel handling the defense in these matters and are based upon our analysis of potential results. We currently do not believe these proceedings could materially reduce our revenues and profitability. It is possible, however, that future financial position and performance could be materially affected by changes in our estimates or effectiveness of our strategies relating to these proceedings and assessments. See *Note 27 – Provisions and Contingencies*.

Based on management's assessment, appropriate provisions were made; however, management has decided not to disclose further details of these provisions as they may prejudice our position in certain legal proceedings.

Revenue recognition – Prior to January 1, 2018

Our revenue recognition policies require us to make use of estimates and assumptions that may affect the reported amounts of our revenues and receivables.

Our agreements with domestic and foreign carriers for inbound and outbound traffic subject to settlements require traffic reconciliations before actual settlement is done, which may not be the actual volume of traffic as measured by us. Initial recognition of revenues is based on our observed traffic adjusted by our normal experience adjustments, which historically are not material to our consolidated financial statements. Differences between the amounts initially recognized and the actual settlements are taken up in the accounts upon reconciliation.

Under certain arrangements with our knowledge processing solutions services, if there is uncertainty regarding the outcome of the transaction for which service was rendered, revenue is recognized only to the extent of expenses incurred for rendering the service and only to such amount as determined to be recoverable.

We recognize our revenues from installation and activation related fees and the corresponding costs over the expected average periods of customer relationship for fixed line and cellular services. We estimate the expected average period of customer relationship based on our most recent churn rate analysis.

Determination of fair values of financial assets and financial liabilities

When the fair value of financial assets and financial liabilities recorded in our consolidated statements of financial position cannot be measured based on quoted prices in active markets, their fair value is measured using valuation techniques including the discounted cash flows model. The inputs to these models are taken from observable markets where possible, but where this is not feasible, a degree of judgment is required in establishing fair values. The judgments include considerations of inputs such as liquidity risk, credit risk and volatility. Changes in assumptions about these factors could affect the reported fair value of financial instruments.

Other than those whose carrying amounts are reasonable approximations of fair values, total fair values of noncurrent financial assets and noncurrent financial liabilities as at December 31, 2019 amounted to Php1,657 million and Php173,457 million, respectively, while the total fair values of noncurrent financial assets and noncurrent financial liabilities as at December 31, 2018 amounted to Php2,168 million and Php143,392 million, respectively. See *Note 28 – Financial Assets and Liabilities*.

4. Operating Segment Information

Operating segments are components of the PLDT Group that engage in business activities from which they may earn revenues and incur expenses (including revenues and expenses relating to transactions with other components of PLDT Group). The operating results of these operating segments are regularly reviewed by the Management Committee to make decisions about how resources are to be allocated to each of the segments and to assess their performances, and for which discrete financial information is available.

For management purposes, we are organized into business units based on our products and services. We have three reportable operating segments as follows:

- Wireless – mobile telecommunications services provided by Smart and DMPI, our mobile service providers; SBI and PDSI, our wireless broadband service providers; and certain subsidiaries of PLDT Global, our mobile virtual network operations, or MVNO, provider;
- Fixed Line – fixed line telecommunications services primarily provided by PLDT. We also provide fixed line services through PLDT's subsidiaries, namely, ClarkTel, SubicTel, Philcom Group, Maratel, BCC, PLDT Global and certain subsidiaries, and Digitel, all of which together account for approximately 1% of our consolidated fixed line subscribers; data center, cloud, cyber security services, managed information technology services and resellership through ePLDT, IPCDSI Group, AGS Group, Curo and ePDS; full service customer rewards and loyalty programs provided by MRSI; and distribution of Filipino channels and content through PGNL and its subsidiaries; and
- Others – PCEV, PGIH, PLDT Digital and its subsidiaries, and PGIC, our investment companies.

See *Note 2 – Summary of Significant Accounting Policies* for further discussion.

The Management Committee monitors the operating results of each business unit separately for purposes of making decisions about resource allocation and performance assessment. Segment performance is evaluated based on net income for the period; earnings before interest, taxes, and depreciation and amortization, or EBITDA; EBITDA margin; and core income. Net income for the period is measured consistent with net income in our consolidated financial statements.

EBITDA for the period is measured as net income excluding depreciation and amortization, amortization of intangible assets, asset impairment on noncurrent assets, financing costs – net, interest income, equity share in net earnings (losses) of associates and joint ventures, foreign exchange gains (losses) – net, gains (losses) on derivative financial instruments – net, provision for (benefit from) income tax and other income (expenses) – net.

EBITDA margin for the period is measured as EBITDA divided by service revenues.

Core income for the period is measured as net income attributable to equity holders of PLDT (net income less net income attributable to noncontrolling interests), excluding foreign exchange gains (losses) – net, gains (losses) on derivative financial instruments – net (excluding hedge costs), asset impairment on noncurrent assets, other non-recurring gains (losses), net of tax effect of aforementioned adjustments, as applicable, and similar adjustments to equity share in net earnings (losses) of associates and joint ventures.

Segment revenues, segment expenses and segment results include transfers between business segments. These transfers are eliminated in full upon consolidation.

Core earnings per common share, or core EPS, for the period is measured as core income divided by the weighted average number of outstanding common shares. See *Note 8 – Earnings Per Common Share* for the weighted average number of common shares.

EBITDA, EBITDA margin, core income and core EPS are non-PFRS measures.

The amounts of segment assets and liabilities and segment profit or loss are based on measurement principles that are similar to those used in measuring the assets and liabilities and profit or loss in our consolidated financial statements, which is in accordance with PFRS.

The segment revenues, net income, and other segment information of our reportable operating segments as at and for the years ended December 31, 2019, 2018 and 2017 are as follows:

	Wireless	Fixed Line	Others	Inter-segment Transactions	Consolidated
(in million pesos, except for EBITDA margin)					
December 31, 2019					
Revenues					
External customers	94,488	74,699	—	—	169,187
Service revenues	88,243	73,112	—	—	161,355
Non-service revenues	6,245	1,587	—	—	7,832
Inter-segment transactions	2,418	14,707	—	(17,125)	—
Service revenues	2,418	14,707	—	(17,125)	—
Non-service revenues	—	—	—	—	—
Total revenues	96,906	89,406	—	(17,125)	169,187
Results					
Depreciation and amortization	29,484	16,141	—	(5,969)	39,656
Asset impairment	1,133	3,699	1	—	4,833
Interest income	703	680	362	—	1,745
Equity share in net earnings (losses) of associates and joint ventures	—	568	(2,103)	—	(1,535)
Financing costs – net	6,422	5,078	—	(2,947)	8,553
Provision for (benefit from) income tax	4,423	5,341	(444)	230	9,550
Net income (loss) / Segment profit (loss)	13,101	11,421	(1,769)	33	22,786
EBITDA	52,789	33,162	(101)	(6,035)	79,815
EBITDA margin	58 %	38 %	—	—	49 %
Core income (loss)	13,685	12,531	(1,151)	46	25,111
Assets and liabilities					
Operating assets	287,059	198,468	7,943	(45,929)	447,541
Investments in associates and joint ventures	10	73,386	9,897	(29,430)	53,863
Deferred income tax assets – net	13,102	11,791	(711)	(559)	23,623
Total assets	300,171	283,645	17,129	(75,918)	525,027
Operating liabilities	221,755	229,855	833	(46,289)	406,154
Deferred income tax liabilities	1,986	384	252	(39)	2,583
Total liabilities	223,741	230,239	1,085	(46,328)	408,737
Other segment information					
Capital expenditures, including capitalized interest (Note 9)	30,718	42,153	—	—	72,871
December 31, 2018					
Revenues					
External customers	87,193	74,593	1,128	—	162,914
Service revenues	80,265	71,020	1,084	—	152,369
Non-service revenues	6,928	3,573	44	—	10,545
Inter-segment transactions	2,736	10,629	10	(13,375)	—
Service revenues	2,736	10,628	10	(13,374)	—
Non-service revenues	—	1	—	(1)	—
Total revenues	89,929	85,222	1,138	(13,375)	162,914
Results					
Depreciation and amortization	24,778	22,303	159	—	47,240
Asset impairment	3,319	4,746	—	—	8,065
Equity share in net earnings (losses) of associates and joint ventures	62	171	(320)	—	(87)
Interest income	719	812	536	(124)	1,943
Financing costs – net	1,865	5,195	131	(124)	7,067
Provision for income tax	1,333	1,336	1,173	—	3,842
Net income (loss) / Segment profit (loss)	5,725	6,059	7,971	(782)	18,973
EBITDA	34,235	30,875	(2,688)	1,605	64,027
EBITDA margin	41 %	38 %	—	—	42 %
Core income (loss)	9,760	6,925	9,952	(782)	25,855
Assets and liabilities					
Operating assets	230,182	199,557	30,962	(61,075)	399,626
Investments in associates and joint ventures	—	43,426	12,001	—	55,427
Deferred income tax assets – net	16,879	12,479	(1,119)	(542)	27,697
Total assets	247,061	255,462	41,844	(61,617)	482,750
Operating liabilities	168,837	206,812	16,773	(29,319)	363,103
Deferred income tax liabilities	2,321	482	367	(189)	2,981
Total liabilities	171,158	207,294	17,140	(29,508)	366,084
Other segment information					
Capital expenditures, including capitalized interest (Note 9)	32,248	26,242	—	—	58,490

	Wireless	Fixed Line	Others	Inter-segment Transactions	Consolidated
December 31, 2017					
Revenues					
External customers	91,311	66,396	1,226	—	158,933
Service revenues	86,128	62,818	1,226	—	150,172
Non-service revenues	5,183	3,578	—	—	8,761
Inter-segment transactions	1,301	11,945	13	(13,259)	—
Service revenues	1,301	11,939	13	(13,253)	—
Non-service revenues	—	6	—	(6)	—
Total revenues	92,612	78,341	1,239	(13,259)	158,933
Results					
Depreciation and amortization	36,776	15,001	138	—	51,915
Asset impairment	6,104	2,098	56	—	8,258
Equity share in net earnings (losses) of associates and joint ventures	(129)	44	2,991	—	2,906
Interest income	305	695	655	(243)	1,412
Financing costs – net	2,247	5,106	214	(197)	7,370
Provision for (benefit from) income tax	(2,787)	3,680	210	—	1,103
Net income (loss) / Segment profit (loss)	(2,215)	7,474	8,825	(618)	13,466
EBITDA	36,395	29,478	(1,307)	1,608	66,174
EBITDA margin	42%	39%	—	—	44%
Core income (loss)	9,812	8,846	9,628	(618)	27,668
Assets and liabilities					
Operating assets	211,983	174,217	34,504	(37,856)	382,848
Investments in associates and joint ventures	—	44,867	1,263	—	46,130
Deferred income tax assets – net	18,826	11,994	—	(354)	30,466
Total assets	230,809	231,078	35,767	(38,210)	459,444
Operating liabilities	153,622	196,451	13,624	(18,802)	344,895
Deferred income tax liabilities	2,656	286	424	—	3,366
Total liabilities	156,278	196,737	14,048	(18,802)	348,261
Other segment information					
Capital expenditures, including capitalized interest (Note 9)	27,305	12,994	—	—	40,299

The following table shows the reconciliation of our consolidated net income to our consolidated EBITDA for the years ended December 31, 2019, 2018 and 2017:

	2019	2018	2017
		(in million pesos)	
Consolidated net income	22,786	18,973	13,466
Add (deduct) adjustments:			
Depreciation and amortization	39,656	47,240	51,915
Provision for income tax (Note 7)	9,550	3,842	1,103
Financing costs – net (Note 5)	8,553	7,067	7,370
Equity share in net losses (earnings) of associates and joint ventures (Note 11)	1,535	87	(2,906)
Amortization of intangible assets (Note 15)	758	892	835
Losses (gains) on derivative financial instruments – net (Note 28)	284	(1,086)	(533)
Impairment of investments (Note 11)	34	172	2,562
Foreign exchange losses (gains) – net (Note 5)	(424)	771	411
Interest income (Note 5)	(1,745)	(1,943)	(1,412)
Noncurrent asset impairment	—	2,122	3,913
Other income – net	(1,172)	(14,110)	(10,550)
Total adjustments	57,029	45,054	52,708
Consolidated EBITDA	79,815	64,027	66,174

The following table shows the reconciliation of our consolidated net income to our consolidated core income for the years ended December 31, 2019, 2018 and 2017:

	2019	2018	2017
		(in million pesos)	
Consolidated net income	22,786	18,973	13,466
Add (deduct) adjustments:			
Manpower rightsizing program, or MRP (Note 5)	3,296	1,703	—
Unrealized losses in fair value of investments	675	1,154	—
Losses (gains) on derivative financial instruments – net, excluding hedge costs (Note 28)	233	(1,135)	(724)
Impairment of investments (Note 11)	34	172	2,562
Core income adjustment on equity share in net losses (earnings) of associates and joint ventures	(226)	23	60
Net income attributable to noncontrolling interests	(265)	(57)	(95)
Foreign exchange losses (gains) – net (Note 5)	(424)	771	411
Depreciation due to shortened life of property and equipment	—	4,564	12,816
Noncurrent asset impairment	—	2,122	3,913
Investment written-off	—	362	—
Nonrecurring income	—	(1,018)	—
Net tax effect of aforementioned adjustments	(998)	(1,779)	(4,741)
Total adjustments	2,325	6,882	14,202
Consolidated core income	25,111	25,855	27,668

The following table shows the reconciliation of our consolidated basic and diluted core EPS to our consolidated basic and diluted EPS attributable to common equity holder of PLDT for the years ended December 31, 2019, 2018 and 2017:

	2019		2018		2017	
	Basic	Diluted	Basic	Diluted	Basic	Diluted
Consolidated core EPS	115.95	115.95	119.39	119.39	127.79	127.79
Add (deduct) adjustments:						
Foreign exchange gains (losses) – net	1.73	1.73	(3.57)	(3.57)	(1.74)	(1.74)
Core income adjustment on equity share in net earnings (losses) of associates and joint ventures	1.05	1.05	(0.11)	(0.11)	(0.28)	(0.28)
Impairment of investments	(0.16)	(0.16)	(0.80)	(0.80)	(11.86)	(11.86)
Gains (losses) on derivative financial instruments – net, excluding hedge costs	(0.75)	(0.75)	4.08	4.08	2.34	2.34
Unrealized losses in fair value of investments	(3.12)	(3.12)	(5.34)	(5.34)	—	—
MRP	(10.73)	(10.73)	(5.52)	(5.52)	—	—
Investment written-off	—	—	(1.68)	(1.68)	—	—
Noncurrent asset impairment	—	—	(9.82)	(9.82)	(13.12)	(13.12)
Depreciation due to shortened life of property and equipment	—	—	(14.06)	(14.06)	(41.52)	(41.52)
Others	—	—	4.71	4.71	—	—
Total adjustments	(11.98)	(11.98)	(32.11)	(32.11)	(66.18)	(66.18)
Consolidated EPS attributable to common equity holders of PLDT (Note 8)	103.97	103.97	87.28	87.28	61.61	61.61

The following table presents our revenues from external customers by category of products and services for the years ended December 31, 2019, 2018 and 2017:

	2019	2018	2017
	(in million pesos)		
Wireless services			
Service revenues:			
Mobile	87,823	79,904	83,166
Home broadband	85	155	2,547
MVNO and others	335	206	415
	88,243	80,265	86,128
Non-service revenues:			
Sale of mobile handsets and broadband data modems	6,245	6,928	5,183
Total wireless revenues	94,488	87,193	91,311
Fixed line services			
Service revenues:			
Voice	19,890	21,148	24,303
Data	52,787	49,504	37,445
Miscellaneous	435	368	1,070
	73,112	71,020	62,818
Non-service revenues:			
Sale of computers, phone units and SIM cards	1,193	3,056	2,706
Point-product-sales	394	517	872
	1,587	3,573	3,578
Total fixed line revenues	74,699	74,593	66,396
Other services	—	1,128	1,226
Total revenues	169,187	162,914	158,933

Disclosure of the geographical distribution of our revenues from external customers and the geographical location of our total assets are not provided since the majority of our consolidated revenues are derived from our operations within the Philippines.

There is no revenue transaction with a single external customer that accounted for 10% or more of our consolidated revenues from external customers for the years ended December 31, 2019, 2018 and 2017.

5. Income and Expenses

Revenue from Contracts with Customers

Disaggregation of Revenue

We derived our revenue from the transfer of goods and services over time and at a point in time in the following major product lines. This is consistent with the revenue information that is disclosed for each reportable segments under PFRS 8, *Operating Segments*. See *Note 4 – Operating Segment Information*.

Set out is the disaggregation of PLDT Group's revenue from contracts with customers for the years ended December 31, 2019 and 2018:

Revenue Streams	Wireless	Fixed Line	Others	Inter-segment Transactions	Consolidated
(in million pesos)					
December 31, 2019					
Type of good or service					
Service revenue	90,661	87,819	—	(17,125)	161,355
Non-service revenue	6,245	1,587	—	—	7,832
Total revenue from contracts with customers	96,906	89,406	—	(17,125)	169,187
Timing of revenue recognition					
Transferred over time	90,661	87,819	—	(17,125)	161,355
Transferred at a point time	6,245	1,587	—	—	7,832
Total revenue from contracts with customers	96,906	89,406	—	(17,125)	169,187
December 31, 2018					
Type of good or service					
Service revenue	83,001	81,648	1,094	(13,374)	152,369
Non-service revenue	6,928	3,574	44	(1)	10,545
Total revenue from contracts with customers	89,929	85,222	1,138	(13,375)	162,914
Timing of revenue recognition					
Transferred over time	83,001	81,648	1,094	(13,374)	152,369
Transferred at a point time	6,928	3,574	44	(1)	10,545
Total revenue from contracts with customers	89,929	85,222	1,138	(13,375)	162,914

Contract Balances

Contract balances as at December 31, 2019 and 2018 consists of the following:

	2019	2018
(in million pesos)		
Trade and other receivables (Note 17)	39,340	40,559
Contract assets	2,817	3,399
Contract liabilities and unearned revenues (Notes 22 and 24)	8,483	7,182

The decrease in trade and other receivables of Php1,219 million as at December 31, 2019 was primarily due to decline in wireless postpaid subscriber base.

The decrease of Php582 million in contract assets as at December 31, 2019 is the result of fewer postpaid new connections during the year.

The increase of Php1,301 million in contract liabilities and unearned revenues as at December 31, 2019 is due to lower realized revenues.

Set out below is the movement in the allowance for expected credit losses of contracts assets for the years ended December 31, 2019 and 2018.

	2019	2018
(in million pesos)		
Balances at beginning of the year	131	114
Reclassification	(61)	—
Provisions	—	17
Balances at end of the year	70	131

Changes in the contract liabilities and unearned revenues accounts for the years ended December 31, 2019 and 2018 are as follows:

	2019	2018
	(in million pesos)	
Balances at beginning of the year	7,182	8,541
Deferred during the year	111,084	102,288
Recognized as revenue during the year	(109,783)	(103,647)
Balances at end of the year	8,483	7,182

The contract liabilities and unearned revenues accounts as at December 31, 2019 and 2018 are as follows:

	2019	2018
	(in million pesos)	
Unearned revenues from prepaid contracts	5,454	4,059
Advance monthly service fees	1,777	2,386
Short-term advances for installation services	726	558
Leased facilities	469	34
Long-term advances from equipment	57	145
Total contract liabilities and unearned revenues	8,483	7,182
Contract liabilities:		
Noncurrent (Note 22)	13	58
Current (Note 24)	44	87
Unearned revenues:		
Noncurrent (Note 22)	591	474
Current (Note 24)	7,835	6,563

As at December 31, 2019, the noncurrent and current portion of contract liabilities and unearned revenues amounted to Php604 million and Php7,879 million, respectively, while as at December 31, 2018, the noncurrent and current portion of contract liabilities and unearned revenues amounted to Php532 million and Php6,650 million, respectively.

Selling, General and Administrative Expenses

Selling, general and administrative expenses for the years ended December 31, 2019, 2018 and 2017 consist of the following:

	2019	2018	2017
	(in million pesos)		
Compensation and employee benefits	24,883	23,543	22,782
Repairs and maintenance (Notes 14, 18 and 25)	15,337	14,331	12,744
Professional and other contracted services (Note 25)	12,078	12,809	12,168
Selling and promotions (Note 25)	5,395	6,340	5,908
Taxes and licenses	4,570	4,974	3,970
Insurance and security services (Note 25)	1,671	1,499	1,519
Rent (Note 25)	1,290	7,321	7,016
Communication, training and travel (Note 25)	1,203	1,069	1,166
Amortization of intangible assets (Note 15)	758	892	835
Other expenses	1,045	1,138	882
Total selling, general and administrative expenses	68,230	73,916	68,990

Compensation and Employee Benefits

Compensation and employee benefits for the years ended December 31, 2019, 2018 and 2017 consist of the following:

	2019	2018	2017
		(in million pesos)	
Salaries and other employee benefits	19,931	19,777	18,598
MRP	3,296	1,703	1,747
Pension benefit costs (Note 26)	1,018	1,855	1,610
Incentive plan (Note 26)	638	208	827
Total compensation and employee benefits	24,883	23,543	22,782

Over the past several years, we have been implementing the MRP in line with our continuing efforts to reduce the cost base of our businesses. The decision to implement the MRP was a result of challenges faced by our businesses as significant changes in technology, increasing competition, and shifting market preferences have reshaped the future of our businesses. The MRP is being implemented in compliance with the Labor Code of the Philippines and all other relevant labor laws and regulations in the Philippines.

Cost of Sales and Services

Cost of sales and services for the years ended December 31, 2019, 2018 and 2017 consist of the following:

	2019	2018	2017
		(in million pesos)	
Cost of computers, mobile handsets and broadband data modems (Note 18)	9,402	10,513	10,277
Cost of services (Note 18)	3,680	3,429	2,572
Cost of point-product-sales (Note 18)	347	485	784
Total cost of sales and services	13,429	14,427	13,633

Asset Impairment

Asset impairment for the years ended December 31, 2019, 2018 and 2017 consist of the following:

	2019	2018	2017
		(in million pesos)	
Trade and other receivables (Note 17)	4,071	4,192	3,438
Inventories and supplies (Note 18)	471	1,528	907
Contract assets	291	223	—
Property and equipment (Note 9)	—	1,958	3,913
Other assets	—	164	—
Total asset impairment	4,833	8,065	8,258

Other Income (Expenses) – Net

Other income (expenses) – net for the years ended December 31, 2019, 2018 and 2017 consist of the following:

	2019	2018	2017
		(in million pesos)	
Interest income	1,745	1,943	1,412
Foreign exchange gains (losses) – net (Note 9)	424	(771)	(411)
Gain on deconsolidation of VIH (Note 11)	—	12,054	—
Gains (losses) on derivative financial instruments – net (Note 28)	(284)	1,086	533
Equity share in net earnings (losses) of associates and joint ventures (Note 11)	(1,535)	(87)	2,906
Financing costs – net	(8,553)	(7,067)	(7,370)
Others – net (Notes 11, 12 and 14)	1,138	1,884	7,988
Total other income (expenses) – net	(7,065)	9,042	5,058

Interest Income

Interest income for the years ended December 31, 2019, 2018 and 2017 consist of the following:

	2019	2018	2017
	(in million pesos)		
Interest income on cash and cash equivalents (Note 16)	1,022	957	612
Interest income arising from revenue contracts with customers	430	340	—
Interest income on financial instruments at FVOCI	239	—	—
Interest income on financial instruments at amortized cost (Note 13)	6	6	8
Interest income – others	48	640	792
Total interest income	1,745	1,943	1,412

Financing Costs – Net

Financing costs – net for the years ended December 31, 2019, 2018 and 2017 consist of the following:

	2019	2018	2017
	(in million pesos)		
Interest on loans and other related items (Notes 21 and 28)	8,730	8,307	7,830
Accretion on lease liabilities (Notes 2 and 10)	1,061	—	—
Accretion on financial liabilities (Note 21)	122	145	219
Financing charges	95	139	137
Capitalized interest (Note 9)	(1,455)	(1,524)	(816)
Total financing costs – net	8,553	7,067	7,370

Adjustments

The 2018 and 2017 comparative information were reclassified to reflect the adjustments on transactions between our wholly-owned subsidiaries resulting to a decrease in service revenue and interconnection costs amounting to Php1,838 million in 2018 and Php993 million in 2017. The adjustments had no impact on our consolidated net income, consolidated EBITDA, consolidated EPS and our consolidated statements of financial position as at December 31, 2018 and 2017 and our consolidated statements of cash flows for the years then ended.

6. Components of Other Comprehensive Loss

Changes in other comprehensive loss under equity of our consolidated statements of financial position for the years ended December 31, 2019, 2018 and 2017 are as follows:

	Foreign currency translation differences of subsidiaries	Net gains (loss) on available-for-sale financial investments – net of tax	Net Revaluation increment on cash flow hedges – net of tax	Revaluation increment on investment properties – net of tax	Actuarial losses on defined benefit plans – net of tax	Share in the other comprehensive income (loss) of associates and joint ventures accounted for using the equity method	Fair value changes of financial instrument at FVOCI	Total other comprehensive loss attributable to equity holders of PLDT	Share of noncontrolling interests	Total other comprehensive loss – net of tax
	(in million pesos)									
Balances as at January 1, 2019	695	(9)	(640)	618	(25,689)	—	(165)	(25,190)	19	(25,171)
Other comprehensive income (loss)	27	—	(256)	(2)	(6,074)	—	127	(6,178)	(4)	(6,182)
Balances as at December 31, 2019	722	(9)	(896)	616	(31,763)	—	(38)	(31,368)	15	(31,353)
Balances as at January 1, 2018	583	4,300	(369)	620	(24,467)	182	—	(19,151)	14	(19,137)
Effect of adoption of PFRS 9 (Note 2)	—	(4,309)	—	—	—	(182)	(136)	(4,627)	—	(4,627)
Balances as at January 1, 2018 (as restated)	583	(9)	(369)	620	(24,467)	—	(136)	(23,778)	14	(23,764)
Other comprehensive income (loss)	112	—	(271)	(2)	(1,222)	—	(29)	(1,412)	5	(1,407)
Balances as at December 31, 2018	695	(9)	(640)	618	(25,689)	—	(165)	(25,190)	19	(25,171)
Balances as at January 1, 2017	608	936	7	619	(23,376)	312	—	(20,894)	7	(20,887)
Other comprehensive income (loss)	(25)	3,364	(376)	1	(1,091)	306	—	2,179	7	2,186
Recycled to retained earnings	—	—	—	—	—	(436)	—	(436)	—	(436)
Balances as at December 31, 2017	583	4,300	(369)	620	(24,467)	182	—	(19,151)	14	(19,137)

Revaluation increment on investment properties pertains to the difference between the carrying value and fair value of property and equipment transferred to investment property at the time of change in classification.

7. Income Taxes

Corporate Income Tax

The major components of consolidated net deferred income tax assets and liabilities recognized in our consolidated statements of financial position as at December 31, 2019 and 2018 are as follows:

	2019	2018
	(in million pesos)	
Net deferred income tax assets	23,623	27,697
Net deferred income tax liabilities	2,583	2,981

The components of our consolidated net deferred income tax assets and liabilities as at December 31, 2019 and 2018 are as follows:

	2019	2018
	(in million pesos)	
Net deferred income tax assets:		
Unamortized past service pension costs	5,846	5,252
Pension and other employee benefits	4,886	4,296
Lease liabilities	4,474	—
Customer list and trademark	3,890	4,670
Accumulated provision for expected credit losses	3,806	3,709
Unearned revenues	2,108	1,776
Provision for other assets	1,661	1,595
MCIT	1,408	905
Accumulated provision for inventory obsolescence and write-down	701	916
Unrealized foreign exchange losses	580	1,092
NOLCO	432	3,231
Fixed asset impairment/depreciation due to shortened life of property and equipment	138	1,870
Derivative financial instruments	—	(58)
ROU assets	(4,081)	—
Others	(2,226)	(1,557)
Total deferred income tax assets – net	23,623	27,697
Net deferred income tax liabilities:		
Intangible assets and fair value adjustment on assets acquired – net of amortization	1,964	2,175
Investment property	278	277
Unrealized foreign exchange gains	254	366
Undepreciated capitalized interest charges	—	7
Others	87	156
Total deferred income tax liabilities	2,583	2,981

Changes in our consolidated net deferred income tax assets (liabilities) as at December 31, 2019 and 2018 are as follows:

	2019	2018
	(in million pesos)	
Net deferred income tax assets – balances at beginning of the year	27,697	30,466
Net deferred income tax liabilities – balances at beginning of the year	(2,981)	(3,366)
Net balances at beginning of the year	24,716	27,100
Movement charged directly to other comprehensive income	2,673	591
Adjustments due to adoption of PFRS 16	(83)	—
Provision for deferred income tax	(6,267)	(1,375)
Excess MCIT deducted against RCIT due	—	(370)
Adjustments due to adoption of PFRS 15	—	(1,166)
Others	1	(64)
Net balances at end of the year	21,040	24,716
Net deferred income tax assets – balances at end of the year	23,623	27,697
Net deferred income tax liabilities – balances at end of the year	(2,583)	(2,981)

The analysis of our consolidated net deferred income tax assets as at December 31, 2019 and 2018 are as follows:

	2019	2018
	(in million pesos)	
Deferred income tax assets:		
Deferred income tax assets to be recovered after 12 months	18,111	25,163
Deferred income tax assets to be recovered within 12 months	7,759	4,872
	25,870	30,035
Deferred income tax liabilities:		
Deferred income tax liabilities to be settled after 12 months	(2,078)	(1,992)
Deferred income tax liabilities to be settled within 12 months	(169)	(346)
	(2,247)	(2,338)
Net deferred income tax assets	23,623	27,697

The analysis of our consolidated net deferred income tax liabilities as at December 31, 2019 and 2018 are as follows:

	2019	2018
	(in million pesos)	
Deferred income tax liabilities:		
Deferred income tax liabilities to be settled after 12 months	(2,376)	(2,743)
Deferred income tax liabilities to be settled within 12 months	(207)	(238)
Net deferred income tax liabilities	(2,583)	(2,981)

Provision for income tax for the years ended December 31, 2019, 2018 and 2017 consist of:

	2019	2018	2017
	(in million pesos)		
Current	3,283	2,467	3,841
Deferred (Note 3)	6,267	1,375	(2,738)
	9,550	3,842	1,103

The reconciliation between the provision for income tax at the applicable statutory tax rate and the actual provision for corporate income tax for the years ended December 31, 2019, 2018 and 2017 are as follows:

	2019	2018	2017
	(in million pesos)		
Provision for income tax at the applicable statutory tax rate	9,701	6,845	4,371
Tax effects of:			
Nondeductible expenses	907	1,235	784
Equity share in net losses (earnings) of associates and joint ventures	460	26	(872)
Loss (income) not subject to income tax	154	(1,827)	(301)
Difference between Optional Standard Deduction, or OSD, and itemized deductions	(251)	(22)	(22)
Income subject to final tax	(599)	(297)	(2,545)
Income subject to lower tax rate	(1,323)	(750)	(520)
Net movement in unrecognized deferred income tax assets and other adjustments	501	(1,368)	208
Actual provision for income tax	9,550	3,842	1,103

The breakdown of our consolidated deductible temporary differences, carryforward benefits of unused tax credits from excess of MCIT over RCIT, and NOLCO (excluding those not recognized due to the adoption of the OSD method) for which no deferred income tax assets were recognized and the equivalent amount of unrecognized deferred income tax assets as at December 31, 2019 and 2018 are as follows:

	2019	2018
	(in million pesos)	
NOLCO	3,322	4,289
Accumulated provision for expected credit losses	2,947	3,144
Fixed asset impairment	1,146	1,148
Gain on disposal of asset	105	106
Unearned revenues	95	25
Unrealized foreign exchange losses	45	49
MCIT	27	27
Accumulated write-down of inventories to net realizable values	11	11
Operating lease	1	—
Pension and other employee benefits	—	13
Provisions for other assets	(116)	1,881
	7,583	10,693
Unrecognized deferred income tax assets	2,294	3,227

DMPI recognized deferred income tax assets to the extent that it is probable that sufficient taxable income will be available to allow all or part of the deferred income tax assets to be utilized. Digitel's unrecognized deferred income tax assets amounted to Php1,362 million and Php1,421 million as at December 31, 2019 and 2018, respectively.

Our consolidated deferred income tax assets have been recorded to the extent that such consolidated deferred income tax assets are expected to be utilized against sufficient future taxable profit. Deferred income tax assets shown in the preceding table were not recognized as we believe that future taxable profit will not be sufficient to realize these deductible temporary differences and carryforward benefits of unused tax credits from excess of MCIT over RCIT, and NOLCO in the future.

The breakdown of our consolidated excess MCIT and NOLCO as at December 31, 2019 are as follows:

Date Incurred	Expiry Date	MCIT	NOLCO
		(in million pesos)	
December 31, 2017	December 31, 2020	6	2,161
December 31, 2018	December 31, 2021	725	2,396
December 31, 2019	December 31, 2022	704	205
		1,435	4,762
Consolidated tax benefits		1,435	1,429
Consolidated unrecognized deferred income tax assets		(27)	(997)
Consolidated recognized deferred income tax assets		1,408	432

The excess MCIT totaling Php1,435 million as at December 31, 2019 can be deducted against future RCIT liability. The excess MCIT that was deducted against RCIT amounted to Php206 million, Php488 million and Php15 million for the years ended December 31, 2019, 2018 and 2017, respectively. The amount of expired portion of excess MCIT amounted to Php10 million, Php1 million and Php72 million for the years ended December 31, 2019, 2018 and 2017, respectively.

NOLCO totaling Php4,762 million as at December 31, 2019 can be claimed as deduction against future taxable income. The NOLCO claimed as deduction against taxable income amounted to Php9,530 million, Php1,094 million and Php4,241 million for the years ended December 31, 2019, 2018 and 2017, respectively. The amount of expired NOLCO amounted to Php973 million, Php1,272 million and Php354 million for the years ended December 31, 2019, 2018 and 2017, respectively.

Registration with Subic Bay Freeport Enterprise and Clark Special Economic Zone Enterprise

SubicTel and ClarkTel are registered with Subic Bay Freeport Enterprise and Clark Special Economic Zone Enterprise, or Economic Zones, respectively, under R.A. 7227 otherwise known as the Bases Conversion and Development Act of 1992. As registrants, SubicTel and ClarkTel are entitled to all the rights, privileges and benefits established thereunder including tax and duty-free importation of capital equipment and a special income tax rate of 5% of gross income, as defined in R.A. 7227.

Our consolidated income derived from non-registered activities within the Economic Zones is subject to the RCIT rate at the end of the reporting period.

8. Earnings Per Common Share

The following table presents information necessary to calculate the EPS for the years ended December 31, 2019, 2018 and 2017:

	2019		2018		2017	
	Basic	Diluted	Basic	Diluted	Basic	Diluted
	(in million pesos)					
Consolidated net income attributable to equity holders of PLDT	22,521	22,521	18,916	18,916	13,371	13,371
Dividends on preferred shares (Note 20)	(59)	(59)	(59)	(59)	(59)	(59)
Consolidated net income attributable to common equity holders of PLDT	22,462	22,462	18,857	18,857	13,312	13,312
	(in thousands, except per share amounts which are in pesos)					
Weighted average number of common shares	216,056	216,056	216,056	216,056	216,056	216,056
EPS attributable to common equity holders of PLDT (Note 5)	103.97	103.97	87.28	87.28	61.61	61.61

Basic EPS amounts are calculated by dividing our consolidated net income for the year attributable to common equity holders of PLDT (consolidated net income adjusted for dividends on all series of preferred shares, except for dividends on preferred stock subject to mandatory redemption) by the weighted average number of common shares issued and outstanding during the year.

Diluted EPS amounts are calculated in the same manner assuming that, at the beginning of the year or at the time of issuance during the year, all outstanding options are exercised and convertible preferred shares are converted to common shares, and appropriate adjustments to our consolidated net income are effected for the related income and expenses on preferred shares. Outstanding stock options will have a dilutive effect only when the average market price of the underlying common share during the year exceeds the exercise price of the stock option.

Convertible preferred shares are deemed dilutive when required dividends declared on each series of convertible preferred shares divided by the number of equivalent common shares, assuming such convertible preferred shares are converted to common shares, decreases the basic EPS. As such, the diluted EPS is calculated by dividing our consolidated net income attributable to common shareholders (consolidated net income, adding back any dividends and/or other charges recognized for the year related to the dilutive convertible preferred shares classified as liability, less dividends on non-dilutive preferred shares except for dividends on preferred stock subject to mandatory redemption) by the weighted average number of common shares excluding the weighted average number of common shares held as treasury shares, and including the common shares equivalent arising from the conversion of the dilutive convertible preferred shares and from the mandatory tender offer for all remaining Digitel shares.

Where the effect of the assumed conversion of the preferred shares and the exercise of all outstanding options have an anti-dilutive effect, basic and diluted EPS are stated at the same amount.

9. Property and Equipment

Changes in property and equipment account for the years ended December 31, 2019 and 2018 are as follows:

	Cable and wire facilities	Central office equipment	Cellular facilities	Buildings and improvements	Vehicles, aircraft, furniture and other equipment	Information origination and termination equipment	Land and land improvements	Property under construction	Total
As at December 31, 2017									
Cost	207,220	119,642	209,504	27,076	58,964	17,595	3,458	50,585	694,044
Accumulated depreciation, impairment and amortization	(159,765)	(101,680)	(159,323)	(18,022)	(51,083)	(13,473)	(267)	(3,524)	(507,137)
Net book value	47,455	17,962	50,181	9,054	7,881	4,122	3,191	47,061	186,907
Year ended December 31, 2018									
Net book value at beginning of the year	47,455	17,962	50,181	9,054	7,881	4,122	3,191	47,061	186,907
Additions (Note 4)	1,278	565	758	120	1,158	2,107	—	52,504	58,490
Disposals/Retirements	(10)	(27)	(60)	(140)	(95)	—	—	(9)	(341)
Reclassifications (Note 14)	19	(1)	—	127	(23)	—	1,117	—	1,239
Transfers and others	10,409	8,237	37,881	265	1,465	1,176	—	(59,433)	—
Translation differences charged directly to cumulative translation adjustments	—	3	—	1	(3)	—	—	—	1
Deconsolidation of a subsidiary	—	—	(65)	(794)	(273)	—	—	—	(1,132)
Impairment losses recognized during the year (Note 5)	(299)	(292)	(858)	(480)	(29)	—	—	—	(1,958)
Depreciation of revaluation increment on investment properties transferred to property and equipment charged to other comprehensive income	—	—	—	(2)	—	—	—	—	(2)
Depreciation and amortization	(11,381)	(10,480)	(17,499)	(2,162)	(3,382)	(2,334)	(2)	—	(47,240)
Net book value at end of the year	47,471	15,967	70,338	5,989	6,699	5,071	4,306	40,123	195,964
As at December 31, 2018									
Cost	217,773	128,321	217,164	26,546	58,711	20,823	4,576	40,123	714,037
Accumulated depreciation, impairment and amortization	(170,302)	(112,354)	(146,826)	(20,557)	(52,012)	(15,752)	(270)	—	(518,073)
Net book value	47,471	15,967	70,338	5,989	6,699	5,071	4,306	40,123	195,964
Year ended December 31, 2019									
Net book value at beginning of the year	47,471	15,967	70,338	5,989	6,699	5,071	4,306	40,123	195,964
Effect of adoption of PFRS 16 (Note 2)	—	—	(244)	(1)	—	—	—	—	(245)
Net book value at the beginning of the year (as restated)	47,471	15,967	70,094	5,988	6,699	5,071	4,306	40,123	195,719
Additions (Note 4)	1,448	856	557	176	3,804	2,987	3	63,040	72,871
Disposals/Retirements	(24)	—	(99)	(3)	(109)	—	—	(77)	(312)
Reclassifications (Note 14)	12	(8)	(762)	(82)	15	1	—	(30)	(854)
Transfers and others	10,374	7,720	32,290	541	1,247	4,696	21	(56,889)	—
Translation differences charged directly to cumulative translation adjustments	(1)	(1)	—	(4)	2	—	—	—	(4)
Adjustments	—	—	—	(20)	—	—	—	—	(20)
Depreciation of revaluation increment on investment properties transferred to property and equipment charged to other comprehensive income	—	—	—	(3)	—	—	—	—	(3)
Depreciation and amortization (Note 3)	(8,084)	(3,857)	(17,025)	(1,102)	(3,410)	(1,782)	(3)	—	(35,263)
Net book value at end of the year	51,196	20,677	85,055	5,491	8,248	10,973	4,327	46,167	232,134
As at December 31, 2019									
Cost	192,535	135,340	220,238	26,762	62,097	28,224	4,597	46,167	715,960
Accumulated depreciation, impairment and amortization	(141,339)	(114,663)	(135,183)	(21,271)	(53,849)	(17,251)	(270)	—	(483,826)
Net book value	51,196	20,677	85,055	5,491	8,248	10,973	4,327	46,167	232,134

Interest capitalized to property and equipment that qualified as borrowing costs amounted to Php1,455 million, Php1,524 million and Php816 million for the years ended December 31, 2019, 2018 and 2017, respectively. See Note 5 – Income and Expenses – Financing Costs – Net. The average interest capitalization rate used was approximately 5% for each of the years ended December 31, 2019, 2018 and 2017.

Our net foreign exchange differences, which qualified as borrowing costs, amounted to nil, Php411 million and Php106 million for the years ended December 31, 2019, 2018 and 2017, respectively.

The cost of fully depreciated property and equipment that are still being used in the Group's operations amounted to Php149,119 million and Php171,867 million as at December 31, 2019 and 2018, respectively.

As at December 31, 2019 and 2018, the estimated useful lives of our property and equipment are estimated as follows:

Cable and wire facilities	5 – 15 years
Central office equipment	2 – 15 years
Cellular facilities	3 – 10 years
Buildings	25 – 50 years
Vehicles, aircraft, furniture and other network equipment	3 – 15 years
Information origination and termination equipment	3 – 7 years
Leasehold improvements	3 – 10 years or the term of the lease, whichever is shorter
Land improvements	10 years

Impairment of Certain Wireless Network Equipment and Facilities

In December 2017, Smart and DMPI recognized an impairment loss of Php3,913 million pertaining to network improvement project involving spectrum reform and long-term evolution rollout. These assets include Radio Access Network, or RAN, equipment such as base transceiver sets, base station controllers, access radios, antennas, radio network controllers, power and related support facilities, among others, including software licenses and implementation services affecting the Quezon City and Marikina areas.

In 2018, Digitel and DMPI recognized an impairment loss amounting to Php1,096 million and Php862 million, respectively, as a result of the full migration of fixed line subscribers to PLDT network for Digitel and continued network convergence strategy for DMPI.

See *Note 3 – Management’s Use of Accounting Judgments, Estimates and Assumptions – Impairment of non-financial assets and Estimating useful lives of Property and equipment.*

On January 28, 2020, PLDT was authorized by the Board of Directors to negotiate and enter into a contract for the sale of Smart Towers Property. The transaction is deemed subject to the confirmation of the Philippine Competition Commission, or PCC, on Non-Coverage.

10. Leases

Group as a Lessee

We have lease contracts for various items of sites, buildings, leased circuits and poles used in our operations. We considered in the lease term the non-cancellable period of the lease together with the periods covered by an option to extend and option to terminate the lease.

Our consolidated estimated useful life of ROU assets as at December 31, 2019 are estimated as follows:

Sites	1 – 30 years
International leased circuits	5 – 7 years
Poles	1 – 10 years
Domestic leased circuits	5 – 10 years
Office buildings	1 – 15 years
Co-located sites	7 years

Our consolidated rollforward analysis of this account as at December 31, 2019 are as follows:

	Site	International Leased Circuits	Poles	2019 Domestic Leased Circuits	Office Buildings	Co-located Sites	Total
(in million pesos)							
Costs:							
Balances at beginning of the year (as previously stated)	—	—	—	—	—	—	—
Effect of adoption of PFRS 16 (Notes 2 and 29)	8,980	3,779	607	551	298	11	14,226
Balances at beginning of the year (as restated)	8,980	3,779	607	551	298	11	14,226
Additions (Note 29)	3,506	562	100	489	413	2	5,072
Asset retirement obligation	1,679	—	—	—	124	—	1,803
Modifications	319	—	19	174	91	(2)	601
Termination	(72)	—	—	—	(20)	—	(92)
Balances at end of the year	14,412	4,341	726	1,214	906	11	21,610
Accumulated depreciation and amortization:							
Balances at beginning of the year (as previously stated)	—	—	—	—	—	—	—
Effect of adoption of PFRS 16 (Note 2)	—	—	—	—	—	—	—
Balances at beginning of the year (as restated)	—	—	—	—	—	—	—
Termination	44	—	—	—	14	—	58
Modifications	—	—	—	3	—	1	4
Charges from asset retirement obligation	(1,297)	—	—	—	(92)	—	(1,389)
Depreciation (Notes 2 and 3)	(2,673)	(834)	(340)	(186)	(358)	(2)	(4,393)
Balances at end of the year	(3,926)	(834)	(340)	(183)	(436)	(1)	(5,720)
Net book value at end of the year (Note 2)	10,486	3,507	386	1,031	470	10	15,890

The following amounts are recognized in our consolidated income statement for the year ended December 31, 2019:

	(in million pesos)
Depreciation expense of ROU assets (Notes 2 and 3)	4,393
Interest expense on lease liabilities (Notes 2 and 5)	1,061
Variable lease payments (included in general and administrative expenses)	708
Expenses relating to short-term leases (included in general and administrative expenses)	378
Expenses relating to leases of low-value assets (included in general and administrative expenses)	204
Total amount recognized in consolidated income statement	6,744

Our consolidated rollforward analysis of lease liabilities as at December 31, 2019 are as follows:

	(in million pesos)
Balances at beginning of the year (as previously stated)	—
Effect of adoption of PFRS 16 (Notes 2 and 29)	15,233
Balances at beginning of the year (as restated)	15,233
Additions (Note 29)	5,065
Accretion expenses (Notes 2 and 5)	1,061
Lease modifications	463
Foreign exchange loss – net	(12)
Termination	(96)
Settlement of obligations (Note 2)	(5,399)
Balances at end of the year (Notes 2 and 3)	16,315
Less current portion of lease liabilities (Notes 2 and 28)	3,215
Noncurrent portion of lease liabilities (Notes 2 and 28)	13,100

We had total cash outflows for leases of Php5,399 million for the year ended December 31, 2019. We also had non-cash additions to ROU assets and lease liabilities of Php5,072 million and Php5,065 million, respectively, as at December 31, 2019. The future cash outflows relating to leases that have not yet commenced are disclosed in *Note 28 – Financial Assets and Liabilities*.

We have entered into several lease contracts that include automatic extension and termination options. These options are negotiated by us to provide flexibility in managing the leased-asset portfolio and align with our business needs. However, in some of these lease contracts, we did not impute the renewal period in our assessment of the lease terms of these contracts since said renewal period is not yet reasonably estimable at the time of transition or commencement date of the lease, see *Note 3 Managements Use of Accounting Judgments, Estimates and Assumptions – Determining the lease term of contracts with renewal and terminal options – Company as a Lessee – Beginning January 1, 2019*.

Group as a Lessor

We have entered into operating leases on its investment property portfolio consisting of certain office buildings and business offices. See *Note 14 – Investment Properties*. These leases have term of five years. All leases include a clause to enable upward revision of the rental charge on annual basis according to prevailing market conditions. The lessee is also required to provide a residual guarantee on the properties. Rental income recognized by us amounted to Php6 million as at December 31, 2019 and nil as at December 2018 and 2017, respectively.

Future minimum rentals receivable under non-cancellable operating leases as at December 31, 2019 are as follows:

	(in million pesos)
Within one year	10
After one year but not more than five years	—
More than five years	—
	10

11. Investments in Associates and Joint Ventures

As at December 31, 2019 and 2018, this account consists of:

	2019	2018
	(in million pesos)	
Carrying value of investments in associates:		
MediaQuest PDRs	9,747	9,262
VIH	8,219	10,487
Digitel Crossing, Inc., or DCI	674	591
Appcard, Inc.	102	122
Asia Outsourcing Beta Limited, or Beta	35	36
AF Payments, Inc., or AFPI	—	—
ACeS International Limited, or AIL	—	—
Asia Netcom Philippines Corp., or ANPC	—	—
	18,777	20,498
Carrying value of investments in joint ventures:		
VTI, Bow Arken and Brightshare	32,538	32,541
Multisys	2,538	2,388
Telecommunications Connectivity, Inc., or TCI	10	—
Philippines Internet Holding S.à.r.l., or PHIH	—	—
Beacon	—	—
	35,086	34,929
Total carrying value of investments in associates and joint ventures	53,863	55,427

Changes in the cost of investments for the years ended December 31, 2019 and 2018 are as follows:

	2019	2018
	(in million pesos)	
Balances at beginning of the year	59,519	51,487
Additions during the year	80	13,247
Disposals	—	(5,230)
Translation and other adjustments	(83)	15
Balances at end of the year	59,516	59,519

Changes in the accumulated impairment losses for the years ended December 31, 2019 and 2018 are as follows:

	2019	2018
	(in million pesos)	
Balances at beginning of the year	2,509	4,118
Additional impairment (Note 4)	34	172
Translation and other adjustments	—	(1,781)
Balances at end of the year	2,543	2,509

Changes in the accumulated equity share in net earnings (losses) of associates and joint ventures for the years ended December 31, 2019 and 2018 are as follows:

	2019	2018
	(in million pesos)	
Balances at beginning of the year	(1,583)	(1,239)
Equity share in net earnings (losses) of associates and joint ventures:	(1,535)	(87)
MediaQuest PDRs	485	90
Multisys	150	—
DCI	83	81
VTI, Bow Arken and Brightshare	35	(60)
Appcard, Inc.	(20)	—
VIH	(2,268)	(260)
AFPI	—	62
Share in the other comprehensive loss of associates and joint ventures accounted for using the equity method	—	(1)
Disposals	—	(187)
Translation and other adjustments	8	(69)
Balances at end of the year	(3,110)	(1,583)

Investments in Associates

Investment of ePLDT in MediaQuest PDRs

In 2012, ePLDT made deposits totaling Php6 billion to MediaQuest, an entity wholly-owned by the PLDT Beneficial Trust Fund, for the issuance of PDRs by MediaQuest in relation to its indirect interest in Cignal TV. Cignal TV is a wholly-owned subsidiary of Satventures, which is a wholly-owned subsidiary of MediaQuest incorporated in the Philippines. The Cignal TV PDRs confer an economic interest in common shares of Cignal TV indirectly owned by MediaQuest, and when issued, will provide ePLDT with a 40% economic interest in Cignal TV. Cignal TV operates a direct-to-home, or DTH, Pay-TV business under the brand name “Cignal TV”, which is the largest DTH Pay-TV operator in the Philippines.

In June 2013, ePLDT’s Board of Directors approved additional investments in PDRs of MediaQuest:

- a Php3.6 billion investment by ePLDT in PDRs to be issued by MediaQuest in relation to its interest in Satventures. The Satventures PDRs confer an economic interest in common shares of Satventures owned by MediaQuest and provide ePLDT with a 40% economic interest in Satventures; and

- a Php1.95 billion investment by ePLDT in PDRs to be issued by MediaQuest in relation to its interest in Hastings, a wholly-owned subsidiary of MediaQuest incorporated in the Philippines. The Hastings PDRs confer an economic interest in common shares of Hastings owned by MediaQuest. Hastings is a wholly-owned subsidiary of MediaQuest and holds all the print-related investments of MediaQuest, including equity interests in the three leading newspapers: The Philippine Star, Philippine Daily Inquirer, and Business World. See *Note 26 – Pension and Other Employee Benefits – Unlisted Equity Investments – Investment in MediaQuest*.

The Php6 billion Cignal TV PDRs and Php3.6 billion Satventures PDRs were issued on September 27, 2013. These PDRs provided ePLDT an aggregate of 64% economic interest in Cignal TV.

On February 19, 2014, ePLDT's Board of Directors approved an additional investment of up to Php500 million in Hastings PDRs to be issued by MediaQuest. On March 11, 2014, MediaQuest received from ePLDT an amount aggregating to Php300 million representing additional deposits for future PDRs subscription. As at December 31, 2014, total deposit for PDRs subscription amounted to Php2,250 million.

On May 21, 2015, ePLDT's Board of Directors approved an additional Php800 million investment in Hastings PDRs and settlement of the Php200 million balance of the Php500 million Hastings PDR investment in 2014. Subsequently, on June 1, 2015, the Board of Trustees of the PLDT Beneficial Trust Fund and the Board of Directors of MediaQuest approved the issuance of Php3,250 million Hastings PDRs. This provided ePLDT with 70% economic interest in Hastings. See *Note 26 – Pension and Other Employee Benefits – Unlisted Equity Investments – Investment in MediaQuest*.

In 2017, an impairment test was carried out for ePLDT's investment in MediaQuest PDRs where it showed that an impairment provision must be recognized. In determining the provision, the recoverable amount of the Print business and Pay TV were determined based on VIU calculations. The VIU calculations were derived from cash flow projections over a period of three to five years based on the 2018 financial budgets approved by the Board of Directors and calculated terminal value.

Using the detailed projections of Print business for five years and applying a terminal value thereafter, ePLDT calculated a recoverable amount of Php1,664 million. Consequently, ePLDT recognized a provision for impairment of its investment in MediaQuest PDRs in relation to its Print business amounting to Php1,784 million for the year ended December 31, 2017, representing the difference between the recoverable amount and the carrying value of the Print business as at December 31, 2017. No impairment provision was recognized for the Pay TV business.

Transfer of Hastings PDRs to PLDT Beneficial Trust Fund

On January 22, 2018, ePLDT's Board of Directors approved the assignment of the Hastings PDRs, representing a 70% economic interest in Hastings to the PLDT Beneficial Trust Fund for a total consideration of Php1,664 million. The assignment was completed on February 15, 2018 and subsequently ePLDT ceased to have any economic interest in Hastings. See *Note 26 – Pension and Other Employee Benefits – Unlisted Equity Investments – Investment in MediaQuest*.

The PLDT Group's financial investment in PDRs of MediaQuest is part of the PLDT Group's overall strategy of broadening its distribution platforms and increasing the PLDT Group's ability to deliver multimedia content to its customers across the PLDT Group's broadband and mobile networks.

ePLDT's aggregate value of investment in MediaQuest PDRs amounted to Php9,747 million and Php9,262 million as at December 31, 2019 and 2018, respectively. See *Note 3 – Management's Use of Accounting Judgments, Estimates and Assumptions – Accounting for investment in MediaQuest through PDRs*.

The table below presents the summarized financial information of Satventures as at December 31, 2019 and 2018, and for the years ended December 31, 2019, 2018 and 2017:

	2019	2018
	(in million pesos)	
Statements of Financial Position:		
Noncurrent assets	21,396	20,712
Current assets	3,662	2,606
Noncurrent liabilities	1,969	3,297
Current liabilities	7,859	5,549
Equity	15,230	14,472
Carrying amount of interest in Satventures	9,747	9,262
Additional Information:		
Cash and cash equivalents	1,534	611
Current financial liabilities*	7,859	487
Noncurrent financial liabilities*	1,969	2,239

* Excluding trade, other payables and provisions.

	2019	2018	2017
	(in million pesos)		
Income Statements:			
Revenues	7,367	7,339	6,650
Depreciation and amortization	920	936	772
Interest income	4	8	3
Interest expense	235	274	249
Provision for income tax	165	112	71
Net income	308	142	4
Other comprehensive income	—	—	—
Total comprehensive income	308	142	4
Equity share in net income of Satventures	485	90	3

Investment of PCEV in VIH

Consolidation of the Digital Investments of Smart under PCEV

On February 27, 2018, the Board of Directors of PCEV approved the consolidation of the various Digital Investments under PCEV, which was carried out through the following transactions:

- (i) PCEV entered into a Share Purchase Agreement with Voyager Innovations, Inc., or Voyager, to purchase 53 million ordinary shares of Voyager Innovations Holdings Pte. Ltd., or VIH, representing 100% of the issued and outstanding ordinary shares of VIH, for a total consideration of Php465 million. The total consideration was settled on March 15, 2018, while the transfer of shares to PCEV was completed on April 6, 2018;
- (ii) VIH entered into a Share Purchase Agreement with Smart to purchase all of its 170 million common shares of Voyager for a total consideration of Php3,527 million. The total consideration was settled on April 16, 2018; and
- (iii) PCEV entered into a Subscription Agreement with VIH to subscribe to additional 96 million ordinary shares of VIH, with a par value of SG\$1.00 per ordinary share, for a total subscription price of SG\$96 million, or Php3,806 million, which was settled on April 13, 2018.

Loss of Control of PCEV over VIH

On October 4, 2018, PLDT, as the ultimate Parent Company of PCEV, VIH, Vision Investment Holdings Pte. Ltd., or Vision, an entity indirectly controlled by KKR and Cerulean Investment Limited, or Cerulean, an entity indirectly owned and controlled by Tencent, entered into subscription agreements under which Vision and Cerulean, or the Lead Investors, will separately subscribe to and VIH will allot and issue to the Lead Investors a total of up to US\$175 million Convertible Class A Preferred Shares of VIH, with an option for VIH to allot and issue up to US\$50 million Convertible Class A Preferred Shares to such follower investors as may be agreed among VIH, PLDT and the Lead Investors, or the upside option.

On November 26, 2018, PLDT, IFC and IFC EAF, a fund managed by IFC Asset Management Company, entered into subscription agreements under which IFC and IFC EAF, the follower investors, will separately subscribe to and VIH will allot and issue to the follower investors a total of up to US\$40 million Convertible Class A Preferred Shares of VIH pursuant to the upsize option.

The foregoing investment in VIH is not subject to the compulsory merger notification regime under the Philippine Competition Act and its implementing Rules and Regulations. In addition, the Bangko Sentral ng Pilipinas has confirmed that it interposes no objection to the investment.

On November 28, 2018, VIH received the US\$175 million funding from KRR and Tencent. Subsequently, VIH received the US\$40 million funding from IFC and IFC EAF. As a result of the foregoing, PCEV's ownership was reduced to 48.74% and retained only two out of the five Board seats in VIH, which resulted in the loss of control over VIH. Consequently, VIH was deconsolidated and the fair market value of the investment amounting to Php10,748 million was recorded as an investment in associate and PCEV recognized gain on deconsolidation amounting to Php12,054 million, which was presented as part of "Other income (expenses) – net" account in our consolidated income statement.

The summarized financial information of VIH as at and for the years ended December 31, 2019 and 2018 is shown below:

	2019	2018
	(in million pesos)	
Statements of Financial Position:		
Noncurrent assets	1,184	1,318
Current assets	8,038	11,152
Noncurrent liabilities	35	42
Current liabilities	4,205	2,926
Equity	4,982	9,502
Income Statement: ⁽¹⁾		
Revenues	1,291	136
Depreciation and amortization	254	19
Interest income	146	14
Benefit from income tax	(4)	(1)
Net loss	(4,576)	(535)
Other comprehensive loss	(124)	(2)
Total comprehensive loss	(4,700)	(537)
Equity share in net loss of VIH	(2,268)	(262)

⁽¹⁾ Income Statement figures in 2018 pertains to the month of December.

The carrying value of PCEV's investment in VIH amounted to Php8,219 million and Php10,487 million as at December 31, 2019 and 2018, respectively.

Investment of Digitel in DCI and ANPC

Digitel has 60% and 40% interest in ANPC and DCI, respectively. DCI is involved in the business of cable system linking the Philippines, United States and other neighboring countries in Asia. ANPC is an investment holding company owning 20% of DCI.

In December 2000, Digitel, Pacnet Network (Philippines), Inc., or PNPI, (formerly Asia Global Crossing Ltd.) and BT Group O/B Broadband Infrastructure Group Ltd., or BIG, entered into a joint venture agreement, or JVA, under which the parties agreed to form DCI with each party owning 40%, 40% and 20%, respectively. DCI was incorporated to develop, provide and market backhaul network services, among others.

On April 19, 2001, after BIG withdrew from the proposed joint venture, Digitel and PNPI formed ANPC to replace BIG. Digitel contributed US\$2 million, or Php69 million, for a 60% equity interest in ANPC while PNPI owned the remaining 40% equity interest.

Digitel provided full impairment loss on its investment in DCI and ANPC in prior years on the basis that DCI and ANPC have incurred significant recurring losses in the past. In 2011 and 2017, Digitel recorded a reversal of impairment loss amounting to Php92 million and Php201 million, respectively, following improvement in DCI's operations.

Though Digitel owns more than half of the voting interest in ANPC, management has assessed that Digitel only has significant influence, and not control, due to certain governance matters.

Digitel's investment in DCI does not qualify as investment in joint venture as there is no provision for joint control in the JVA among Digitel, PNPI and ANPC.

Following PLDT's acquisition of a controlling stake in Digitel, PNPI, on November 4, 2011, sent a notice to exercise its Call Right under Section 6.3 of the JVA, which provides for a Call Right exercisable by PNPI following the occurrence of a Digitel change in control. As at March 31, 2020, Digitel is ready to conclude the transfer of its investment in DCI and ANPC, subject to PNPI's ability to meet certain regulatory and valuation requirements. This investment is not classified as noncurrent asset held-for-sale at report date as the transfer is assessed as not highly probable because certain conditions have not yet been met by both Digitel and PNPI.

Investment of PGIC in Beta

On February 5, 2013, PLDT entered into a Subscription and Shareholders' Agreement with Asia Outsourcing Alpha Limited, or Alpha, wherein PLDT, through its indirect subsidiary PGIC, acquired from Alpha approximately 20% equity interest in Beta for a total cost of approximately US\$40 million, which consists of preferred shares of US\$39.8 million and ordinary shares of US\$0.2 million. On various dates in 2013 and 2014, PGIC has bought and transferred-in a net in total of 27 ordinary shares and 9,643 preferred shares to certain employees of Beta for a total net payment of US\$51 thousand. In 2014, Beta has divested its healthcare BPO business. PGIC received a total cash distribution of US\$41.8 million from Beta through redemption of 35.3 million preferred shares and repayment of loan from PGIC. The equity interest of PGIC in Beta remained at 20% after the transfer with economic interest of 18.32%.

Alpha and Beta are both exempted limited liability companies incorporated under the laws of Cayman Islands and are both controlled by CVC Capital Partners. Beta has been designated to be the ultimate holding company of the SPi Technologies, Inc. and Subsidiaries.

On July 22, 2016, Asia Outsourcing Gamma Limited, or AOGL, entered into a SPA with Relia, Inc., one of the largest BPO companies in Japan, relating to the acquisition of AOGL's Customer Relationship Management, or CRM, business under the legal entity SPi CRM, Inc. and Infocom Technologies, Inc., wholly-owned subsidiaries of SPi Technologies, Inc., for a total purchase consideration of US\$190.9 million. AOGL is a wholly-owned subsidiary of Beta and the direct holding company of SPi Technologies, Inc. and Subsidiaries. The transaction was completed on September 30, 2016. As a result of the sale, PGIC received a cash distribution of US\$11.2 million from Beta through redemption of its preferred shares and portion of its ordinary shares.

On May 19, 2017, AOGL entered into a SPA with Partners Group, a global private markets investment manager, relating to the acquisition of SPi Global, a wholly-owned subsidiary of AOGL, for an enterprise value of US\$330 million. The transaction was completed on August 25, 2017. As a result of the sale, PGIC received a total cash distribution of US\$57.05 million from Beta on various dates in 2017 and 2018 through redemption of a portion of its ordinary shares. The remaining balance of US\$2.29 million is held in escrow and will be released in 2020 subject to indemnity claims of the buyer.

The carrying value of investment in common shares in Beta amounted to Php35 million and Php36 million as at December 31, 2019 and 2018, respectively. The economic interests of PGIC in Beta remained at 18.32% as at December 31, 2019 and 2018.

PGIC is a wholly-owned subsidiary of PLDT Global, which was incorporated under the laws of British Virgin Islands.

Investment of Smart in AFPI

In 2013, Smart, along with other conglomerates MPIC and Ayala Corporation, or Ayala, embarked on a venture to bid for the Automated Fare Collection System, or AFCS, a project of the Department of Transportation and Communications, or DOTC, and Light Rail Transit Authority, to upgrade the Light Rail Transit 1 and 2, and Metro Rail Transit ticketing systems.

In 2014, AFPI, the joint venture company, was incorporated in the Philippines and registered with the Philippine SEC. Smart subscribed to Php503 million equivalent to 503 million shares at a subscription price of Php1.00 per share representing 20% equity interest. MPIC and Ayala Group signed a ten-year concession agreement with the DOTC to build and implement the AFCS project.

In March 2019, Smart infused additional capital of Php70 million as additional subscription of preferred shares.

The summary of investments in AFPI made by Smart as at December 31, 2019 and 2018 is shown below:

	2019	2018
	(in millions)	
Common shares	625.7	625.7
Preferred shares	194.3	124.3

Smart's investment in AFPI has been fully impaired as at December 31, 2019. Share in net cumulative losses were not recognized as it does not have any legal or constructive obligation to pay for such losses and have not made any payments on behalf of AFPI.

Investment of ACeS Philippines in AIL

As at December 31, 2019, ACeS Philippines held a 36.99% equity interest in AIL, a company incorporated under the laws of Bermuda. AIL owns the Garuda I Satellite and the related system control equipment in Batam, Indonesia. In December 2014, AIL suffered a failure of the propulsion system on board the Garuda I Satellite, thus, AIL decided to decommission the operation of Garuda I Satellite in January 2015.

AIL has incurred significant operating losses, negative operating cash flows, and significant levels of debt. The financial condition of AIL was partly due to the National Service Providers', or NSPs, inability to generate the amount of revenues originally expected as the growth in subscriber numbers has been significantly lower than budgeted. These factors raised substantial doubt about AIL's ability to continue as a going concern. On this basis, we recognized a full impairment provision of Php1,896 million in respect of our investment in AIL in 2003.

Share in net cumulative losses were not recognized as we do not have any legal or constructive obligation to pay for such losses and have not made any payments on behalf of AIL.

Summarized financial information of individually immaterial associates

The following tables present the summarized financial information of our individually immaterial investments in joint associates for the years ended December 31, 2019, 2018 and 2017:

	2019	2018	2017
	(in million pesos)		
Income Statements:			
Revenues	107	104	107
Net income (loss)	90	(80)	59
Other comprehensive income	—	—	(1)
Total comprehensive income (loss)	90	(80)	58

We did not receive any dividends from our associates for the years ended December 31, 2019, 2018 and, 2017.

We have no outstanding contingent liabilities or capital commitments with our associates as at December 31, 2019 and 2018.

Investments in Joint Ventures

Investments of PLDT in VTI, Bow Arken and Brightshare

On May 30, 2016, the PLDT Board approved the Company's acquisition of 50% equity interest, including outstanding advances and assumed liabilities, in the telecommunications business of San Miguel Corporation, or SMC, with Globe acquiring the other 50% interest. On the same date, PLDT and Globe executed: (i) a Share Purchase Agreement, or SPA, with SMC to acquire the entire outstanding capital, including outstanding advances and assumed liabilities, in VTI (and the other subsidiaries of VTI), which holds SMC's telecommunications assets through its subsidiaries, or the VTI Transaction; and (ii) separate SPAs with the owners of two other entities, Bow Arken (the parent company of New Century Telecoms, Inc.) and Brightshare (the parent company of eTelco, Inc.), which separately hold additional spectrum frequencies through their respective subsidiaries, or the Bow Arken Transaction and Brightshare Transaction, respectively. We refer to the VTI Transaction, Bow Arken Transaction and Brightshare Transaction collectively as the SMC Transactions.

The consideration in the amount of Php52.8 billion representing the purchase price for the equity interest and assigned advances of previous owners to VTI, Bow Arken and Brightshare was paid in three tranches: 50% upon signing of the SPAs on May 30, 2016, 25% on December 1, 2016 and the final 25% on May 30, 2017. The SPAs also provide that PLDT and Globe, through VTI, Bow Arken and Brightshare, would assume liabilities amounting to Php17.2 billion from May 30, 2016. In addition, the SPAs contain a price adjustment mechanism based on the variance in these assumed liabilities to be agreed among PLDT, Globe and previous owners on the results of the confirmatory due diligence procedures jointly performed by PLDT and Globe. On May 29, 2017, PLDT and Globe paid the previous owners the net amount of Php2.6 billion in relation to the aforementioned price adjustment based on the result of the confirmatory due diligence. See *Note 28 – Financial Assets and Liabilities – Commercial Commitments*.

As part of the SMC Transactions, PLDT and Globe acquired certain outstanding advances made by the former owners of VTI, Bow Arken and Brightshare to VTI, Bow Arken and Brightshare or their respective subsidiaries. The amounts of the advances outstanding to PLDT since the date of assignment to PLDT amounted to Php11,359 million: (i) Php11,038 million from VTI and its subsidiaries; (ii) Php238 million from Bow Arken and its subsidiaries; and (iii) Php83 million from Brightshare and its subsidiaries.

On February 28, 2017, PLDT and Globe each subscribed to 2.8 million new preferred shares to be issued out of the unissued portion of the existing authorized capital stock of VTI, at a subscription price of Php4 thousand per subscribed share (inclusive of a premium over par of Php3 thousand per subscribed share) or a total subscription price for each of Php11,040 million (inclusive of a premium over par of Php8,280 million). PLDT and Globe's assigned advances from SMC which were subsequently reclassified to deposit for future subscription of each amounting to Php11,040 million were applied as full subscription payment for the subscribed shares.

Also, on the same date, PLDT and Globe each subscribed to 800 thousand new preferred shares of the authorized capital stock of VTI, at a subscription price of Php4 thousand per subscribed share (inclusive of a premium over par of Php3 thousand per subscribed share), or a total subscription price for each Php3,200 million (inclusive of a premium over par of Php2,400 million). PLDT and Globe each paid Php148 million in cash for the subscribed shares. The remaining balance of the subscription price of PLDT and Globe were fully paid as at December 29, 2017.

On December 15, 2017, PLDT and Globe each subscribed to 600 thousand new preferred shares of the authorized capital stock of VTI, at a subscription price of Php5 thousand per subscribed share (inclusive of a premium over par of Php4 thousand per subscribed share), for a total subscription price of Php3,000 million (inclusive of a premium over par of Php2,400 million). PLDT and Globe each paid Php10 million in cash for the subscribed shares upon execution of the agreement. The remaining balance of the subscription price was paid via conversion of advances amounting to Php2,990 million as at December 31, 2017.

The amount of the advances outstanding to PLDT, to cover for the assumed liabilities and working capital requirements of the acquired companies, amounted to Php13 million and Php51 million as at December 31, 2019 and 2018, respectively.

Purchase Price Allocation

PLDT has engaged an independent valuer to determine the fair value adjustments relating to the acquisition. As at May 30, 2016, our share in the fair value of the intangible assets, which includes spectrum, amounted to Php18,885 million and goodwill of Php17,824 million has been determined based on the final results of an independent valuation. Goodwill arising from this acquisition and carrying amount of the identifiable assets and liabilities, including deferred tax liability, and the related amortization through equity in net earnings were retrospectively adjusted accordingly.

The table below presents the summarized financial information of VTI, Bow Arken and Brightshare as at December 31, 2019 and 2018, and for the years ended December 31, 2019, 2018 and 2017:

	2019	2018
	(in million pesos)	
Statements of Financial Position:		
Noncurrent assets	78,004	77,261
Current assets	3,610	3,070
Noncurrent liabilities	11,456	11,193
Current liabilities	2,831	2,678
Equity	67,327	66,460
Carrying amount of interest in VTI, Bow Arken and Brightshare	32,538	32,541
Additional Information:		
Cash and cash equivalents	2,590	2,191
Current financial liabilities*	587	607
Noncurrent financial liabilities*	—	—

* Excluding trade, other payables and provisions.

	2019	2018	2017
	(in million pesos)		
Income Statements:			
Revenues	3,339	2,505	2,532
Depreciation and amortization	1,337	1,171	1,168
Interest income	64	43	28
Provision for (benefit from) income tax	216	113	(42)
Net income (loss)	70	(120)	110
Other comprehensive income	—	—	—
Total comprehensive income (loss)	70	(120)	110
Equity share in net income (loss) of VTI, Bow Arken and Brightshare	35	(60)	55

Notice of Transaction filed with the PCC

On May 30, 2016, prior to closing the transaction, each of PLDT, Globe and SMC submitted notices of the VTI, Bow Arken and Brightshare Transaction (respectively, the VTI Notice, the Bow Arken Notice and the Brightshare Notice and collectively, the Notices) to the PCC pursuant to the Philippine Competition Act, or PCA, and Circular No. 16-001 and Circular No. 16-002 issued by the PCC, or the Circulars. As stated in the Circulars, upon receipt by the PCC of the requisite notices, each of the said transactions shall be deemed approved in accordance with the Circulars.

Subsequently, on June 7, 2016, PLDT and the other parties to the said transactions received separate letters dated June 6 and 7, 2016 from the PCC which essentially stated, that: (a) with respect to VTI Transaction, the VTI Notice is deficient and defective in form and substance, therefore, the VTI Transaction is not “deemed approved” by the PCC, and that the missing key terms of the transaction are critical since the PCC considers certain agreements as prohibited and illegal; and (b) with respect to the Bow Arken and Brightshare Transactions, the compulsory notification under the Circulars does not apply and that even assuming the Circulars apply, the Bow Arken Notice and the Brightshare Notice are deficient and defective in form and substance.

On June 10, 2016, PLDT submitted its response to the PCC's letter articulating its position that the VTI Notice is adequate, complete and sufficient and compliant with the requirement under the Circulars, and does not contain false material information; as such, the VTI Transaction enjoys the benefit of Section 23 of the PCA. Therefore, the VTI Transaction is deemed approved and cannot be subject to retroactive review by the PCC. Moreover, the parties have taken all necessary steps, including the relinquishment/return of certain frequencies and co-use of the remaining frequencies by Smart and Belltel and Globe and Belltel as discussed above, to ensure that the VTI Transaction will not substantially prevent, restrict or lessen competition to violate the PCA. Nevertheless, in the spirit of cooperation and for transparency, the parties voluntarily submitted to the PCC, among others, copies of the SPAs for the PCC's information and reference.

In a letter dated June 17, 2016, the PCC required the parties to further submit additional documents relevant to the co-use arrangement and the frequencies subject thereto, as well as other definitive agreements relating to the VTI Transaction. It also disregarded the deemed approved status of the VTI Transaction in violation of the Circulars which the PCC itself issued, and insisted that it will conduct a full review, if not investigation of the said transaction under the different operative provisions of the PCA.

In the Matter of the Petition against the PCC

On July 12, 2016, PLDT filed before the Court of Appeals, or CA, a Petition for Certiorari and Prohibition (With Urgent Application for the Issuance of a Temporary Restraining Order, or TRO, and/or Writ of Preliminary Injunction), or the Petition, against the PCC. The Petition seeks to enjoin the PCC from proceeding with the review of the acquisition by PLDT and Globe of equity interest, including outstanding advances and assumed liabilities, in the telecommunications business of SMC, or the SMC Transactions, and performing any act which challenges or assails the "deemed approved" status of the SMC Transactions. On July 19, 2016, the 12th Division of the CA, issued a Resolution directing the PCC through the Office of the Solicitor General, or the OSG, to file its Comment within a non-extendible period of 10 days from notice and show cause why the Petition should not be granted. On August 11, 2016, the PCC through the OSG, filed its Comment to the Petition (With Opposition to Petitioner's Application for a Writ of Preliminary Injunction). On August 19, 2016, PLDT filed its Reply to Respondent PCC's Comment.

On August 26, 2016, the CA issued a Writ of Preliminary Injunction enjoining and directing the respondent PCC, their officials and agents, or persons acting for and in their behalf, to cease and desist from conducting further proceedings for the pre-acquisition review and/or investigation of the SMC Transactions based on its Letters dated June 7, 2016 and June 17, 2016 during the pendency of the case and until further orders are issued by the CA. On September 14, 2016, the PCC filed a Motion for Reconsideration of the CA's Resolution. During this time, Globe moved to have its Petition consolidated with the PLDT Petition. In a Resolution promulgated on October 19, 2016, the CA: (i) accepted the consolidation of Globe's petition versus the PCC (CA G.R. SP No. 146538) into PLDT's petition versus the PCC (CA G.R. SP No. 146528) with the right of replacement; (ii) admitted the Comment dated October 4, 2016 filed by the PCC; (iii) referred to the PCC for Comment (within 10 days from receipt of notice) PLDT's Urgent Motion for the Issuance of a Gag Order dated September 30, 2016 and to cite the PCC for indirect contempt; and (iv) ordered all parties to submit simultaneous memoranda within a non-extendible period of 15 days from notice. On November 11, 2016, PLDT filed its Memorandum in compliance with the CA's Resolution.

On February 17, 2017, the CA issued a Resolution denying PCC's Motion for Reconsideration dated September 14, 2016, for lack of merit. The CA denied PLDT's Motion to Cite the PCC for indirect Contempt for being premature. In the same Resolution, as well as in a separate Gag Order attached to the Resolution, the CA granted PLDT's Urgent Motion for the Issuance of a Gag Order and directed PCC to remove immediately from its website its preliminary statement of concern and submit its compliance within five days from receipt thereof. All the parties were ordered to refrain, cease and desist from issuing public comments and statements that would violate the sub judice rule and subject them to indirect contempt of court. The parties were also required to comment within ten days from receipt of the Resolution, on the Motion for Leave to Intervene and to Admit the Petition-in-Intervention dated February 7, 2017 filed by Citizenwatch, a non-stock and non-profit association.

On April 18, 2017, the PCC filed before the Supreme Court a Petition to Annul the Writ of Preliminary Injunction issued by the CA's 12th Division on August 26, 2016 restraining PCC's review of the SMC Transactions. In compliance with the Supreme Court's Resolution issued on April 25, 2017, PLDT on July 3, 2017 filed its Comment dated July 1, 2017 to the PCC's Petition. The Supreme Court issued a Resolution dated July 18, 2017 noting PLDT's Comment and requiring the PCC to file its Consolidated Reply. The PCC filed a Motion for Extension of Time and prayed that it be granted until October 23, 2017 to file its Consolidated Reply. The PCC filed its Consolidated Reply to the: (1) Comment filed by PLDT; and (2) Motion to Dismiss filed by Globe on November 7, 2017. The same was noted by Supreme Court in a Resolution dated November 28, 2017.

During the intervening period, the CA rendered its Decision in October 18, 2017, granting the Petitions filed by PLDT and Globe. In its Decision, the CA: (i) permanently enjoined the PCC from conducting further proceedings for the pre-acquisition review and/or investigation of the SMC Transactions based on its Letters dated June 7, 2016 and June 17, 2016; (ii) annulled and set aside the Letters dated June 7, 2016 and June 17, 2016; (iii) precluded the PCC from conducting a full review and/or investigation of the SMC Transactions; (iv) compelled the PCC to recognize the SMC Transactions as deemed approved by operation of law; and (v) denied the PCC's Motion for Partial Reconsideration dated March 6, 2017, and directed the PCC to permanently comply with the CA's Resolution dated February 17, 2017 requiring PCC to remove its preliminary statement of concern from its website. The CA clarified that the deemed approved status of the SMC Transactions does not, however, remove the power of PCC to conduct post-acquisition review to ensure that no anti-competitive conduct is committed by the parties.

On November 7, 2017, PCC filed a Motion for Additional Time to file a Petition for Review on Certiorari before the Supreme Court. The Supreme Court granted PCC's motion in its Resolution dated November 28, 2017.

On December 13, 2017, PLDT, through counsel, received the PCC's Petition for Review on Certiorari filed before the Supreme Court assailing the CA's Decision dated October 18, 2017. In this Petition, the PCC raised procedural and substantive issues for resolution. Particularly, the PCC assailed the issuance of the writs of certiorari, prohibition, and mandamus considering that the determination of the sufficiency of the Notice pursuant to the Transitory Rules involves the exercise of administrative and discretionary prerogatives of the PCC. On the substantive aspect, the PCC argued that the CA committed grave abuse of discretion in ruling that the SMC Transactions should be accorded the deemed approved status under the Transitory Rules. The PCC maintained that the Notice of the SMC Transaction was defective because it failed to provide the key terms thereof.

In the Supreme Court Resolution dated November 28, 2017, which was received by PLDT on December 27, 2017, the Supreme Court decided to consolidate the PCC's Petition to Annul the Writ of Preliminary Injunction issued by the CA's 12th Division with that of its Petition for Review on Certiorari assailing the decision of the CA on the merits.

On February 13, 2018, PLDT received Globe's Motion for Leave to File and Admit the Attached Rejoinder, which was denied by the Supreme Court in a Resolution dated March 13, 2018.

On February 27, 2018, PLDT received notice of the Supreme Court's Resolution dated January 30, 2018 directing PLDT and Globe to file their respective Comments to the Petition for Review on Certiorari without giving due course to the same.

On April 5, 2018, PLDT filed its Comment on the Petition for Review on Certiorari. On April 11, 2018, PLDT received Globe's Comment/Opposition [Re: Petition for Review on Certiorari dated December 11, 2017] dated March 4, 2018.

On April 24, 2018, PCC's Motion to Expunge [Respondent PLDT's Comment on the Petition for Review on Certiorari] dated April 18, 2018 was received. On May 9, 2018, PLDT filed a Motion for Leave to File and Admit the Attached Comment on the Petition for Review on Certiorari dated May 9, 2018.

On June 5, 2018, PLDT received the Supreme Court's Resolution dated April 24, 2018 granting the motion for extension of PLDT and noting its Comment on the Petition for Review on Certiorari filed in compliance with the Supreme Court's Resolution dated January 30, 2018 and requiring the PCC to file a Consolidated Reply to the comments within ten days from notice. On June 20, 2018, PLDT, through counsel, received PCC's Urgent Omnibus Motion for: (1) Partial Reconsideration of the Resolution dated April 24, 2018; and (2) Additional Time dated June 11, 2018.

PCC filed its Consolidated Reply Ad Cautelam dated July 16, 2018, which was received on July 19, 2018.

On July 26, 2018, PLDT received a Resolution dated June 19, 2018 where the Supreme Court resolved to grant PLDT's Motion for Leave to File and Admit the Attached Comment, and PCC's Motion for Extension to file a Comment/Opposition on/to PLDT's Motion for Leave to File and Admit the Attached Comment.

On August 14, 2018, PLDT received a Resolution dated July 3, 2018 where the Supreme Court resolved to deny the PCC's motion to reconsider the Resolution dated April 24, 2018 and grant its motion for extension of time to file its reply to PLDT's and Globe's Comments, with a warning that no further extension will be given.

On August 16, 2018, PLDT received a Resolution dated June 5, 2018 where the Supreme Court noted without action the Motion to Expunge by PCC in view of the Resolution dated April 24, 2018 granting the motion for extension of time to file a comment on the petition in G.R. No. 234969.

On October 4, 2018, PLDT received a Resolution dated August 7, 2018 where the Supreme Court noted the PCC's Consolidated Reply Ad Cautelam.

The consolidated petitions remain pending as of the date of this report.

VTI's Tender Offer for the Minority Stockholders' Shares in Liberty Telecom Holdings, Inc., or LIB

On August 18, 2016, the Board of Directors of VTI approved the voluntary tender offer to acquire the common shares of LIB, a subsidiary of VTI, which are held by the remaining minority shareholders, and the intention to delist the shares of LIB from the PSE.

On August 24, 2016, VTI, owner of 87.12% of the outstanding common shares of LIB, undertook the tender offer to purchase up to 165.88 million common shares owned by the remaining minority shareholders, representing 12.82% of LIB's common stock, at a price of Php2.20 per share. The tender offer period ended on October 20, 2016, the extended expiration date, with over 107 million shares tendered, representing approximately 8.3% of LIB's issued and outstanding common shares. The tendered shares were crossed at the PSE on November 4, 2016, with the settlement on November 9, 2016.

The tender offer was undertaken in compliance with the PSE's requirements for the voluntary delisting of LIB common shares from the PSE. The voluntary delisting of LIB was approved by the PSE effective November 21, 2016.

Following the conclusion of the tender offer, VTI now owns more than 95% of the issued and outstanding common shares, and 99.1% of the total issued and outstanding capital stock, of LIB.

Investment of PGIH in Multisys

On November 8, 2018, the PLDT Board of Directors approved the investment of Php2,150 million in Multisys for a 45.73% equity interest through its wholly-owned subsidiary, PGIH. Multisys is a Philippine software development and IT solutions provider engaged in designing, developing, implementing business system solutions and services covering courseware, webpage development and designing user-defined system programming. PGIH's investment involves the acquisition of new and existing shares.

On December 3, 2018, PGIH completed the closing of its investment in Multisys. Out of the Php550 million total consideration for the acquisition of existing shares, PGIH paid Php523 million to the owners of Multisys. On June 3, 2019, the balance of the acquisition consideration amounting to Php27 million was fully paid. Further, PGIH invested Php800 million into Multisys as a deposit for future stock subscription pending the approval by the Philippine SEC of the capital increase of Multisys. On February 1, 2019, the Philippine SEC approved the capital increase of Multisys. The balance of Php800 million stock subscription payable is outstanding as at February 28, 2020.

PLDT has engaged an independent appraiser to determine the fair value adjustments relating to the acquisition. As at December 3, 2018, our share in the fair value of the identifiable net assets and liabilities, which includes technologies and customer relationships, amounted to Php1,357 million. Goodwill of Php1,031 million has been determined based on the final results of the independent valuation. Goodwill arising from this acquisition and carrying amount of the identifiable net assets and liabilities, including deferred tax liability, and the related amortization through equity in net earnings were retrospectively adjusted accordingly.

The carrying value of the investment in Multisys amounted to Php2,538 million and Php2,388 million, including subscription payable of Php800 million and contingent consideration of Php230 million as at December 31, 2019 and 2018, respectively.

Investment of iCommerce in PHIH

On January 20, 2015, PLDT and Rocket Internet entered into a JVA designed to foster the development of internet-based businesses in the Philippines. PLDT, through its subsidiary, Voyager, and Asia Internet Holding S.à r.l., or AIH, which is 50%-owned by Rocket Internet, were the initial shareholders of the joint venture company PHIH. iCommerce, former subsidiary of VIH, replaced Voyager in agreement as shareholder of PHIH on October 14, 2015 and held a 33.33% equity interest in PHIH.

The objective of PHIH was the creation and development of online businesses in the Philippines, the leveraging of local market and business model insights, the facilitation of commercial, strategic and investment partnerships, and the acceleration of the rollout of online startups in the Philippines. In accordance with the underlying agreements, iCommerce paid approximately €7.4 million to PHIH as contribution to capital. Payment of another contribution by iCommerce to the PHIH capital of approximately €2.6 million was requested in 2016 and remained outstanding.

On September 15, 2017, AIH initiated arbitral proceedings via the German Arbitration Institute (DIS), or DIS, against iCommerce for not settling the €2.6 million contribution. AIH required the payment of €2.6 million plus interest and all costs of the arbitral proceedings.

On December 14, 2017, VIH and PLDT Online entered into a Sale and Purchase Agreement whereby VIH sold all of its 10 thousand shares in iCommerce to PLDT Online for a total purchase price of SG\$1.00. On the same date, VIH assigned its loans receivables from iCommerce to PLDT Online amounting to US\$8.6 million. In consideration, a total of US\$8.9 million, inclusive of interest, was fully paid by PLDT Online to VIH on November 30, 2017.

On April 19, 2018, iCommerce, together with PLDT and Voyager, executed a Settlement Agreement with AIH to terminate the arbitral proceedings and to settle disputes over rights and obligations in connection with the PHIH agreements. On the same date, iCommerce executed a Share Transfer Agreement with AIH to transfer its PHIH shares to AIH. As a result, iCommerce gave up its 33.33% equity interest for zero value and its claims over the remaining cash of PHIH. iCommerce, AIH and PHIH waived all other claims in connection with PHIH, including any claims against iCommerce.

On separate letters dated April 26, 2018, iCommerce and AIH informed the DIS that both parties have concluded an out-of-court settlement with AIH requesting for the termination of the arbitral proceedings.

On May 7, 2018, iCommerce received the order of the DIS for the termination of the arbitral proceedings and the administrative fees to be paid in relation to the arbitral proceedings. With the foregoing, iCommerce has completed the exit from the joint venture.

As a result, iCommerce recognized a loss on investment written-off amounting to Php362 million for the difference between the book value of investment in PHIH and the subscription payable. Such loss is recorded as part of “Other income (expenses) – Others – net” in our consolidated income statement.

Investment of PCEV in Beacon

On March 1, 2010, PCEV, MPIC and Beacon, entered into an Omnibus Agreement, or OA, where PCEV and MPIC have agreed to set out their mutual agreement in respect of, among other matters, the capitalization, organization, conduct of business and the extent of their participation in the management of the affairs of Beacon. Beacon is merely a special purpose vehicle created for the main purpose of holding and investing in Meralco using the same Meralco shares as collateral for funding such additional investment.

PCEV accounted for its investment in Beacon as investment in joint venture since the OA established joint control over Beacon until its full divestment on June 27, 2017.

PCEV’s Investment in Beacon Shares

PCEV made the following investments in Beacon:

Date	Transaction	Number of Shares (in millions)	Total Consideration (Php) (in millions)
March 30, 2010	PCEV subscription to Beacon Common Shares ⁽¹⁾	1,157 Beacon Common Shares	23,130
October 25, 2011	PCEV transfer of remaining Meralco Common Shares to Beacon ⁽²⁾	69 Meralco Common Shares	15,136
	PCEV subscription to Beacon Preferred Shares	1,199 Beacon Class “A” Preferred Shares	15,136
January 20, 2012	PCEV subscription to Beacon Common Shares	135 Beacon Common Shares	2,700
May 30, 2016	PCEV subscription to Beacon Class “B” Preferred Shares	277 Beacon Class “B” Preferred Shares	3,500
September 9, 2016	Beacon redemption of Class “B” Preferred Shares held by PCEV	198 Beacon Class “B” Preferred Shares	2,500
April 20, 2017	Beacon redemption of Class “B” Preferred Shares held by PCEV	79 Beacon Class “B” Preferred Shares	1,000

⁽¹⁾ PCEV transferred 154 million Meralco shares at a price of Php150.00 per share or an aggregate amount of Php23,130 million on May 12, 2010.

⁽²⁾ The transfer of the Meralco shares were implemented through a special block sale/cross sale in the PSE.

Sale of Beacon’s Meralco Shares to MPIC

Beacon has entered into the following Share Purchase Agreements with MPIC:

Date	Number of Shares Sold (in millions)	% of Meralco Shareholdings Sold	Price Per Share (Php)	Total Price (Php)	Deferred Gain Realized ⁽¹⁾ (Php) (in million pesos)
June 24, 2014	56.35	5%	235.00	13,243	1,418
April 14, 2015	112.71	10%	235.00	26,487	2,838

⁽¹⁾ Since Beacon sold the shares to an entity not included in the PLDT Group, PCEV realized portion of the deferred gain which was recognized when the Meralco shares were transferred to Beacon.

Sale of PCEV’s Beacon Common and Preferred Shares to MPIC

PCEV has entered into the following Share Purchase Agreements with MPIC:

Date	Number of Shares Sold (in millions)	Selling Price (Php)	Deferred Gain Realized (Php)
June 6, 2012	282 Preferred Shares	3,563	2,012
May 30, 2016	646 Common shares and 458 Preferred Shares	26,200	4,962
June 13, 2017	646 Common shares and 458 Preferred Shares	21,800	4,962

On May 30, 2016, MPIC settled a portion of the consideration amounting to Php17,000 million immediately upon signing of the Share Purchase Agreement dated May 30, 2016 and the balance of Php9,200 million will be paid in annual installments until June 2020.

On June 27, 2017, MPIC settled a portion of the consideration amounting to Php12,000 million upon closing of the sale under the Share Purchase Agreement dated June 13, 2017 and the balance of Php9,800 million will be paid in annual installments from June 2018 to June 2021.

Subsequent to its full divestment in June 2017, PCEV continued to hold its representation in the Board of Directors of Beacon and participate in the decision making. As set forth in the Share Purchase Agreement dated June 30, 2017: (i) PCEV shall be entitled to nominate one director to the Board of Directors of Beacon (“Seller’s Director”) and MPIC agrees to vote its shares in Beacon in favor of such Seller’s Director; and (ii) MPIC shall cede to PCEV the right to vote all of the shares. The parties agreed that with respect to decisions or policies affecting dividend payouts to be made by Beacon, PCEV shall exercise its voting rights, and shall vote, in accordance with the recommendation of MPIC on such matter. Based on the foregoing, PCEV’s previously joint control over Beacon has become a significant influence.

Beginning January 1, 2018, the unpaid balance from MPIC is measured at FVOCI using discounted cash flow valuation method in accordance with the new classification under PFRS 9 with interest income to be accreted over the term of the receivable.

Sale of PCEV’s Receivables from MPIC (FVOCI)

On December 5, 2017, the Board of Directors of PCEV approved the proposed sale of 50% of PCEV’s receivable from MPIC, with an option on the part of PCEV to upsize to 75%, consisting of the proceeds from the sale of its shares in Beacon, which are due in 2019 to 2021.

On March 2, 2018, PCEV entered into a Receivables Purchase Agreement, or RPA, with various financial institutions, or the Purchasers, to sell a portion of its receivables from MPIC due in 2019 to 2021 amounting to Php5,550 million for a total consideration of Php4,852 million, which was settled on March 5, 2018. Under the terms of the RPA, the Purchasers will have exclusive ownership of the purchased receivables and all of its rights, title, and interest.

On March 23, 2018, PCEV entered into another RPA with a financial institution to sell a portion of its receivables from MPIC due in 2019 amounting to Php2,230 million for a total consideration of Php2,124 million, which was settled on April 2, 2018.

PCEV’s remaining receivables from MPIC amounted to Php2,919 million, net of Php2 million allowance for ECL, and Php4,353 million, net of Php2 million allowance for ECL as at December 31, 2019 and 2018, respectively.

The following table explains the changes in the allowance for ECLs between the beginning and the end of the year.

	2019			Total
	Stage 1	Stage 2	Stage 3	
	12-Month	Lifetime	Lifetime	
	ECL	ECL	ECL	
	(in million pesos)			
Balances as at beginning of the year	2	—	—	2
Provisions	1	—	—	1
Financial assets derecognized during the year	(1)	—	—	(1)
Balances at end of the year	2	—	—	2

	2018			Total
	Stage 1	Stage 2	Stage 3	
	12-Month	Lifetime	Lifetime	
	ECL	ECL	ECL	
	(in million pesos)			
Balances as at beginning of the year	4	—	—	4
Financial assets derecognized during the year	(2)	—	—	(2)
Balances at end of the year	2	—	—	2

Investment of Smart in TCI

In 2019, Smart, along with Globe and Dito Telecommunity, Inc. entered into an agreement to form a joint venture that will address the requirements of Republic Act No. 11202, or the Mobile Number Portability, or MNP, Act. The newly enacted law allows mobile phone users to switch networks or change their subscription from prepaid to postpaid or vice versa, without changing their mobile numbers.

The joint venture company, TCI was incorporated in the Philippines on December 26, 2019 and registered with the Philippine SEC on January 17, 2020. The primary purpose of the joint venture is to serve as a clearing house for MNP. TCI will ensure smooth implementation of mobile number porting services. Smart subscribed Php10 million representing 33.3% equity interest in TCI, which is equivalent to 10 million shares at a subscription price of Php1.00 per share.

Summarized financial information of individually immaterial joint ventures

The following tables present the summarized financial information of our individually immaterial investments in joint ventures for the years ended December 31, 2019, 2018 and 2017:

	2019	2018	2017
		(in million pesos)	
Income Statements:			
Revenues	367	35	—
Net income	200	15	—
Other comprehensive income	—	—	—
Total comprehensive income	200	15	—

We have no outstanding contingent liabilities or capital commitments with our joint ventures as at December 31, 2019 and 2018.

12. Financial Assets at FVPL

As at December 31, 2019 and 2018, this account consists of:

	2019	2018
	(in million pesos)	
Rocket Internet	2,381	3,128
iflix Limited, or iflix	599	844
Club shares and others	328	294
Phunware, Inc., or Phunware	61	497
Matrixx Software, Inc., or Matrixx	—	—
	3,369	4,763

Investment of PLDT Online in Rocket Internet

On August 7, 2014, PLDT and Rocket Internet entered into a global strategic partnership to drive the development of online and mobile payment solutions in emerging markets. Rocket Internet provides a platform for the rapid creation and scaling of consumer internet businesses outside the U.S. and China. Rocket Internet's prominent brands include the leading Southeast Asian e-Commerce businesses Zalora and Lazada, as well as fast growing brands with strong positions in their markets such as Dafiti, Linio, Jumia, Namshi, Lamoda, Jabong, Westwing, Home24 and HelloFresh in Latin America, Africa, Middle East, Russia, India and Europe. Financial technology and payments comprise Rocket Internet's third sector where it anticipates numerous and significant growth opportunities.

Pursuant to the terms of the investment agreement, PLDT invested €333 million, or Php19,577 million, in cash, for new shares equivalent to a 10% stake in Rocket Internet as at August 2014. These new shares are of the same class and bear the same rights as the Rocket Internet shares held by the investors as at the date of the agreement namely, Investment AB Kinnevik and Access Industries, in addition to Global Founders GmbH (formerly European Founders Fund GmbH). PLDT made the €333 million investment in two payments (on September 8 and September 15, 2014), which it funded from available cash and new debt.

On August 21, 2014, PLDT assigned all its rights, title and interests as well as all of its obligations related to its investment in Rocket Internet, to PLDT Online, an indirectly wholly-owned subsidiary of PLDT.

On October 1, 2014, Rocket Internet announced the pricing of its initial public offering, or IPO, at €42.50 per share. On October 2, 2014, Rocket Internet listed its shares on Entry Standard of the Frankfurt Stock Exchange under the ticker symbol “RKET.” Our ownership stake in Rocket Internet after the IPO was reduced to 6.6%. In February 2015, due to additional issuances of shares by Rocket Internet, our ownership percentage in Rocket Internet was further reduced to 6.1%, and remained as such as at December 31, 2017.

On September 26, 2016, Rocket Internet applied for admission to trading under the regulated market (Prime Standard) of the Frankfurt Stock Exchange. RKET has been admitted to the Prime Standard and is part of the Frankfurt Stock Exchange’s SDAX.

On April 16, 2018, Rocket Internet announced the buyback of up to 15 million shares through a public share purchase offer, or the Offer, against payment of an offer price in the amount of €24 per share. PLDT Online committed to accept the Offer of Rocket Internet for at least 7 million shares, or approximately 67.4% of the total number of shares directly held by PLDT Online.

On May 4, 2018, Rocket Internet accepted the tender of PLDT Online of 7 million shares and paid the total consideration of €163 million, or Php10,059 million, which was settled on May 9, 2018, reducing the equity ownership in Rocket Internet from 6.1% to 2.0%.

On May 23, 2018, Rocket Internet redeemed 10.8 million shares reducing its share capital to €154 million. As a result of the redemption of shares, PLDT Online’s equity ownership in Rocket Internet increased from 2.0% to 2.1%.

On various dates in the third quarter of 2018, PLDT Online sold 0.7 million Rocket Internet shares for an aggregate amount of €22 million, or Php1,346 million, reducing equity ownership in Rocket Internet from 2.1% to 1.7%.

On December 6, 2018, Rocket Internet redeemed 1.9 million shares reducing its share capital to €153 million. PLDT Online’s equity ownership in Rocket Internet remained at 1.7%

On various dates in 2019, PLDT Online sold 0.7 million Rocket internet shares for an aggregate amount of €18 million, or Php1,021 million, reducing equity ownership in Rocket Internet from 1.7% to 1.3%.

On October 9, 2019, Rocket Internet redeemed 1.7 million shares reducing its share capital to €151 million. PLDT Online’s equity ownership in Rocket Internet remained at 1.3%

On January 30, 2020, Rocket Internet redeemed 13.5 million shares reducing its share capital to €137 million. As a result of the redemption of shares, PLDT Online’s equity ownership in Rocket Internet increased from 1.3% to 1.4%.

Further details on investment in Rocket Internet for the years ended December 31, 2019, 2018 and 2017, and as at December 31, 2019 and 2018 are as follows:

	2019	2018	2017
Total market value as at beginning of the year (in million pesos)	3,128	12,848	10,058
Closing price per share at end of the year (in Euros)	22.10	20.18	20.13
Total market value as at end of the year (in million Euros)	42	52	213
Total market value as at end of the year (in million pesos)	2,381	3,128	12,848
Net gains (losses) recognized during the year (in million pesos)	89	(157)	2,790

	2019	2018
	(in million pesos)	
Balances at beginning of the year	3,128	12,848
Fair value adjustment in profit or loss	89	(157)
Disposal of investments	(836)	(9,563)
Balances at end of the year	2,381	3,128

As at March 30, 2020, closing price of Rocket Internet is €18.20.

Investment of PLDT Online in iflix

On April 23, 2015, PLDT Online subscribed to a convertible note of iflix, an internet TV service provider in Southeast Asia, for US\$15 million, or Php686 million. The convertible note was issued and paid on August 11, 2015. iflix will use the funds to continue roll out of the iflix subscription video-on-demand services across the Southeast Asian region, acquire rights to new content, and produce original programming to market to potential customers.

This investment is in line with our strategy to develop new revenue streams and to complement our present business by participating in the digital world beyond providing access and connectivity.

On March 10, 2016, the US\$15 million convertible note held by PLDT Online was converted into 20.7 million ordinary shares of iflix in connection with a new funding round led by Sky Plc, Europe's leading entertainment company, and the Indonesian company, Emtel Group. The conversion resulted on a valuation gain amounting to US\$19 million, or Php898 million, increasing the fair value of PLDT Online's investment amounting to US\$34 million, or Php1,584 million.

On August 4, 2017, PLDT Online subscribed to a convertible note of iflix for US\$1.5 million, or Php75 million, in a new funding round led by Hearst Entertainment. The convertible note was paid on August 8, 2017. The note is zero coupon, senior and unsubordinated, non-redeemable, transferable and convertible into Series B Preferred Shares subject to occurrence of a conversion event. iflix will use the funds to invest in its local content strategy and for its regional and international expansion.

On December 15, 2018, the US\$1.5 million convertible note held by PLDT Online was converted into 1.0 million Series B Preferred Shares of iflix upon the occurrence of the cut-off date. After the conversion of all outstanding convertible notes, PLDT Online's equity ownership in iflix was reduced from 7.3% to 5.3%.

In 2019, due to additional issuances of shares by iflix, PLDT Online's equity ownership in iflix was reduced from 5.3% to 4.9%.

The fair value of PLDT Online's investment amounted to Php599 million and Php844 million as at December 31, 2019 and 2018, respectively.

Investment of PLDT Capital in Phunware

On September 3, 2015, PLDT Capital subscribed to an 8% US\$5 million Convertible Promissory Note, or Note, issued by Phunware, a Delaware corporation. Phunware provides an expansive mobile delivery platform that creates, markets, and monetizes mobile application experiences across multiple screens. The US\$5 million Note was issued to and paid for by PLDT Capital on September 4, 2015.

On December 18, 2015, PLDT Capital subscribed to Series F Preferred Shares of Phunware for a total consideration of US\$3 million. On the same date, the Note and its related interest were converted to additional Phunware Series F Preferred Shares.

On February 27, 2018, Phunware entered into a definitive Agreement and Plan of Merger, or Merger Agreement, with Stellar Acquisition III, Inc., or Stellar, relating to a business combination transaction for an enterprise value of US\$301 million, on a cash-free, debt-free basis. Pursuant to the Merger Agreement, the holders of Phunware common stock will be entitled to the right to receive the applicable portion of the merger consideration in the form of Stellar common shares, which are listed on the Nasdaq Stock Market. As a result, the holders of Phunware preferred stock have requested the automatic conversion of all outstanding preferred shares into common shares effective as of immediately prior to the closing of the transaction on a conversion ratio of one common share per one preferred share. In addition to the right to receive Stellar common shares, each holder of Phunware Stock is entitled to elect to receive its pro rata share of warrants to purchase Stellar common shares that are held by the affiliate companies of Stellar's co-Chief Executive Officers, or Stellar's Sponsors.

On November 28, 2018, PLDT Capital elected to receive its full pro rata share of the warrants to purchase Stellar common shares held by Stellar’s Sponsors.

On December 26, 2018, Phunware announced the consummation of its business combination with Stellar. Stellar, the new Phunware holding company, changed its corporate name to “Phunware, Inc.,” or PHUN, and Phunware changed its corporate name to “Phunware OpCo, Inc.” Upon closing, PLDT Capital received the PHUN common shares equivalent to its portion of the merger consideration and its full pro rata share of warrants to purchase PHUN common shares.

On March 15, 2019, PLDT Capital exercised its warrants to purchase PHUN common shares for a total consideration of US\$1.6 million.

The fair value amount of PLDT Capital’s investment amounted to Php61 million and Php497 million as at December 31, 2019 and 2018, respectively.

Investment of PLDT Capital in Matrixx

On December 18, 2015, PLDT Capital entered into a Stock and Warrant Purchase Agreement with Matrixx, a Delaware corporation. Matrixx provides the IT foundation to move to an all-digital service environment with a new real-time technology platform designed to handle the surge in interactions without forcing the compromises of conventional technology. Under the terms of the agreement, PLDT Capital subscribed to convertible Series B Preferred Stock of Matrixx for a total consideration of US\$5 million, or Php237 million, and was entitled to purchase additional Series B Preferred Stock upon occurrence of certain conditions on or before March 15, 2016. PLDT Capital did not exercise its right to purchase additional Series B Preferred Stock of Matrixx.

On December 20, 2018, Matrixx entered into a Repurchase Agreement with PLDT Capital to repurchase all of its capital stock held by PLDT Capital including a warrant to purchase capital stock for US\$5 million. The transaction closed on the same day.

13. Debt Instruments at Amortized Cost

As at December 31, 2019 and 2018, this account consists of:

	2019	2018
	(in million pesos)	
GT Capital Bond	150	150
Less current portion (Note 28)	150	150
Noncurrent portion (Note 28)	—	—

GT Capital Bond

In February 2013, Smart purchased at par a seven-year GT Capital Bond with face value of Php150 million, which matured on February 27, 2020. The bond has a gross coupon rate of 4.84% payable on a quarterly basis, and was recognized as HTM investment. Starting January 1, 2018, the bond was classified as debt instrument at amortized cost under PFRS 9. Interest income, net of withholding tax, recognized on this investment amounted to Php5.8 million for each of the years ended December 31, 2019, 2018 and 2017. The carrying value of this investment amounted to Php150 million as at December 31, 2019 and 2018.

Security Bank Time Deposits

In May 2013, PLDT invested US\$2.0 million in a five-year time deposit with Security Bank at a gross coupon rate of 3.5%, which matured on May 31, 2018. Interest income, net of withholding tax, recognized on this investment amounted to US\$25 thousand, or Php1.3 million, for the year ended December 31, 2018.

14. Investment Properties

Changes in investment properties account for the years ended December 31, 2019 and 2018 are as follows:

	Land	Land Improvements	Building	Total
	(in million pesos)			
December 31, 2019				
Balances at beginning of the year	596	7	174	777
Net gains (losses) from fair value adjustments charged to profit or loss	23	(6)	(5)	12
Disposals during the year	(11)	—	—	(11)
Balances at end of the year	608	1	169	778
December 31, 2018				
Balances at beginning of the year	1,322	8	305	1,635
Net gains (losses) from fair value adjustments charged to profit or loss	389	(1)	(10)	378
Transfers to property and equipment	(1,115)	—	(121)	(1,236)
Balances at end of the year	596	7	174	777

Investment properties, which consist of land, land improvements and building, are stated at fair values, which have been determined based on appraisal performed by an independent firm of appraisers, an industry specialist in valuing these types of investment properties.

The valuation for land was based on a market approach valuation technique using price per square meter ranging from Php30 to Php32 thousand. The valuation for building and land improvements was based on a cost approach valuation technique using current material and labor costs for improvements based on external and independent reviewers.

We have determined that the highest and best use of some of the idle or vacant land properties at the measurement date would be to convert the properties for residential or commercial development. The properties are not being used for strategic reasons.

We have no restrictions on the realizability of our investment properties and no contractual obligations to either purchase, construct or develop investment properties or for repairs, maintenance and enhancements.

Repairs and maintenance expenses related to investment properties that do not generate rental income amounted to Php65 million, Php38 million and Php27 million for the years ended December 31, 2019, 2018 and 2017, respectively.

Rental income relating to investment properties that are being leased and included as part of revenues amounted to Php6 million for the year ended December 31, 2019 and nil for each of the years ended December 31, 2018 and 2017.

The above investment properties were categorized under Level 3 of the fair value hierarchy. There were no transfers in and out of Level 3 of the fair value hierarchy.

Significant increases (decreases) in price per square meter for land, current material and labor costs of improvements would result in a significantly higher (lower) fair value measurement.

15. Goodwill and Intangible Assets

Changes in goodwill and intangible assets account for the years ended December 31, 2019 and 2018 are as follows:

	Intangible Assets with Indefinite Life	Intangible Assets with Finite Life					Total Intangible Assets with Finite Life	Total Intangible Assets	Goodwill	Total Goodwill and Intangible Assets
		Trademark	Franchise	Customer List	Licenses	Spectrum				
December 31, 2019										
Costs:										
Balances at beginning and end of the year	4,505	3,016	4,726	1,079	1,205	775	10,801	15,306	62,033	77,339
Accumulated amortization and impairment:										
Balances at beginning of the year	—	1,334	3,790	1,051	1,152	775	8,102	8,102	654	8,756
Amortization during the year (Notes 4 and 5)	—	186	511	8	53	—	758	758	—	758
Balances at end of the year	—	1,520	4,301	1,059	1,205	775	8,860	8,860	654	9,514
Net balances at end of the year	4,505	1,496	425	20	—	—	1,941	6,446	61,379	67,825
Estimated useful lives (in years)	—	16	2 – 9	18	15	1 – 10	—	—	—	—
Remaining useful lives (in years)	—	8	1	3	—	—	—	—	—	—
December 31, 2018										
Costs:										
Balances at beginning of the year	4,505	3,016	4,726	1,079	1,205	1,562	11,588	16,093	63,058	79,151
Additions	—	—	—	—	—	21	21	21	—	21
Disposals	—	—	—	—	—	(372)	(372)	(372)	—	(372)
Deconsolidation	—	—	—	—	—	(460)	(460)	(460)	(1,025)	(1,485)
Translation and other adjustments	—	—	—	—	—	24	24	24	—	24
Balances at end of the year	4,505	3,016	4,726	1,079	1,205	775	10,801	15,306	62,033	77,339
Accumulated amortization and impairment:										
Balances at beginning of the year	—	1,147	3,280	1,044	1,071	1,347	7,889	7,889	1,679	9,568
Disposals	—	—	—	—	—	(372)	(372)	(372)	—	(372)
Amortization during the year (Notes 4 and 5)	—	187	510	7	81	107	892	892	—	892
Deconsolidation	—	—	—	—	—	(331)	(331)	(331)	(1,025)	(1,356)
Translation and other adjustments	—	—	—	—	—	24	24	24	—	24
Balances at end of the year	—	1,334	3,790	1,051	1,152	775	8,102	8,102	654	8,756
Net balances at end of the year	4,505	1,682	936	28	53	—	2,699	7,204	61,379	68,583
Estimated useful lives (in years)	—	16	2 – 9	18	15	1 – 10	—	—	—	—
Remaining useful lives (in years)	—	9	1 – 2	4	1	—	—	—	—	—

The consolidated goodwill and intangible assets of our reportable segments as at December 31, 2019 and 2018 are as follows:

	2019			2018		
	Wireless	Fixed Line	Total	Wireless	Fixed Line	Total
	(in million pesos)					
Trademark	4,505	—	4,505	4,505	—	4,505
Franchise	1,496	—	1,496	1,682	—	1,682
Customer list	425	—	425	936	—	936
Licenses	20	—	20	28	—	28
Spectrum	—	—	—	53	—	53
Total intangible assets	6,446	—	6,446	7,204	—	7,204
Goodwill	56,571	4,808	61,379	56,571	4,808	61,379
Total goodwill and intangible assets	63,017	4,808	67,825	63,775	4,808	68,583

Intangible Assets

Intangible asset with indefinite life pertains to the “*Sun Cellular*” trademark of DMPI, resulting from PLDT’s acquisition of Digitel in 2011. PLDT intends to continue using the “*Sun Cellular*” brand to cater to a specific market segment. As such, the “*Sun Cellular*” trademark is viewed to have an indefinite useful life.

VIH’s subsidiary, PayMaya, continuously improves its existing products and services through regular technological development and upgrades of their platforms. Accumulated costs related to such technical activities are capitalized as intangible assets. VIH were deconsolidated in PCEV Group as at November 30, 2018. Thus, the related intangible assets of VIH were also deconsolidated.

The consolidated future amortization of intangible assets as at December 31, 2019 is as follows:

Year	(in million pesos)
2020	619
2021	194
2022	191
2023	186
2024 and onwards	751
	1,941

Impairment Testing of Goodwill and Intangible Asset with Indefinite Useful Life

The organizational structure of PLDT and its subsidiaries is designed to monitor financial operations based on fixed line and wireless segmentation. Management provides guidelines and decisions on resource allocation, such as continuing or disposing of asset and operations by evaluating the performance of each segment through review and analysis of available financial information on the fixed line and wireless segments. As at December 31, 2019, the PLDT Group’s goodwill comprised of goodwill resulting from acquisition of PLDT’s additional investment in PG1 in 2014, ePLDT’s acquisition of IPCDSI in 2012, PLDT’s acquisition of Digitel in 2011, ePLDT’s acquisition of ePDS in 2011, Smart’s acquisition of PDSI and Chikka in 2009, SBI’s acquisition of Airborne Access Corporation in 2008, and Smart’s acquisition of SBI in 2004.

Although revenue streams may be segregated among the companies within the PLDT Group, the cost items and cash flows are difficult to carve out due largely to the significant portion of shared and common used network/platform. The same is true for Sun, wherein Smart 2G/3G network, cellular base stations and fiber optic backbone are shared for areas where Sun has limited connectivity and facilities. On the other hand, PLDT has the largest fixed line network in the Philippines. PLDT’s transport facilities are installed nationwide to cover both domestic and international IP backbone to route and transmit IP traffic generated by the customers. In the same manner, PLDT has the most Internet Gateway facilities which are composed of high capacity IP routers and switches that serve as the main gateway of the Philippines to the Internet connecting to the World Wide Web. With PLDT’s network coverage, other fixed line subsidiaries share the same facilities to leverage on a Group perspective.

Because of the significant common use of network facilities among fixed line and wireless companies within the Group, management deems that the Wireless and Fixed Line units are considered the lowest CGUs for impairment test of goodwill until 2014.

In 2015, subsequent to the decision of Management to consolidate the various digital businesses under Voyager and assign a separate management from wireless business, the Voyager unit has been considered as a CGU separate from the Wireless unit. As a result, additional goodwill amounting to Php980 million was allocated to Voyager CGU.

In December 2016, based on the assessment of the Voyager CGU’s recoverable amount compared with the carrying amount of the Voyager CGU’s net assets, we have recognized total impairment loss amounting to Php980 million and, consequently, any adverse change in a key assumption would result in a further impairment loss.

In 2018, the Wireless and Fixed Line units are the lowest CGUs to which goodwill is to be allocated given that the Fixed Line and Wireless operations generate cash inflows that are largely independent of the cash inflows from other assets or groups of assets.

The recoverable amount of the Wireless and Fixed Line CGUs have been determined using the value-in-use approach calculated using cash flow projections based on the financial budgets approved by the Board of Directors. The post-tax discount rates applied to cash flow projections are 8.22% for the Wireless and Fixed Line CGUs. Cash flows beyond the projection period are determined using a 2.00% growth rate for the Wireless and Fixed Line CGUs, which is the same as the long-term average growth rate for the telecommunications industry. Other key assumptions used in the cash flow projections include revenue growth rate and capital expenditures.

Based on the assessment of the VIU of the Wireless and Fixed Line CGUs, the recoverable amount of the Wireless and Fixed Line CGUs exceeded their carrying amounts, hence, no impairment was recognized in relation to goodwill and intangible assets with indefinite useful life as at December 31, 2019 and 2018.

The accumulated impairment balance as at December 31, 2019 is comprised of Php438 million from PLDT's acquisition of Digitel and Php216 million from ePLDT's acquisition of AGS.

With regard to the assessment of VIU for Wireless and Fixed Line CGUs, management believes that no reasonable changes in any of the above key assumptions would cause the carrying value of the unit to materially exceed its recoverable amount.

16. Cash and Cash Equivalents

As at December 31, 2019 and 2018, this account consists of:

	2019	2018
	(in million pesos)	
Cash on hand and in banks (Note 28)	6,706	5,982
Temporary cash investments (Note 28)	17,663	45,672
	24,369	51,654

Cash in banks earn interest at prevailing bank deposit rates. Temporary cash investments are made for varying periods of up to three months depending on our immediate cash requirements, and earn interest at the prevailing temporary cash investment rates. Due to the short-term nature of such transactions, the carrying value approximates the fair value of our temporary cash investments. See *Note 28 – Financial Assets and Liabilities*.

Interest income earned from cash in banks and temporary cash investments amounted to Php1,022 million, Php957 million and Php612 million for the years ended December 31, 2019, 2018 and 2017, respectively.

17. Trade and Other Receivables

As at December 31, 2019 and 2018, this account consists of receivables from:

	2019	2018
	(in million pesos)	
Retail subscribers (Note 28)	17,178	19,444
Corporate subscribers (Note 28)	13,005	11,073
Foreign administrations (Note 28)	1,896	4,225
Domestic carriers (Note 28)	889	270
Dealers, agents and others (Note 28)	6,372	5,547
	39,340	40,559
Less allowance for expected credit losses	16,904	16,503
	22,436	24,056

Receivables from foreign administrations and domestic carriers represent receivables based on interconnection agreements with other telecommunications carriers. The aforementioned amounts of receivables are shown net of related payables to the same telecommunications carriers where a legal right of offset exists and settlement is facilitated on a net basis.

Receivables from dealers, agents and others consist mainly of receivables from credit card companies, dealers and distributors having collection arrangements with the PLDT Group, dividend receivables and advances to affiliates.

Trade and other receivables are non-interest-bearing and generally have settlement terms of 30 to 180 days.

For terms and conditions relating to related party receivables, see *Note 25 – Related Party Transactions*.

See *Note 28 – Financial Assets and Liabilities* on credit risk of trade receivables to understand how we manage and measure credit quality of trade receivables that are neither past due nor impaired.

The following table explains the changes in the allowance for expected credit losses as at December 31, 2019 and 2018:

	2019												Total
	Retail Subscribers		Corporate Subscribers		Foreign Administrations		Domestic Carriers		Dealers, Agents and Others		Total		
	Stage 2	Stage 3	Stage 2	Stage 3	Stage 2	Stage 3	Stage 2	Stage 3	Stage 2	Stage 3	Stage 2	Stage 3	
	(in million pesos)												
Balances at beginning of the year	893	8,931	603	3,906	5	914	3	74	91	1,083	1,595	14,908	16,503
Provisions (Note 5)	418	2,725	211	661	(2)	64	1	12	10	(29)	638	3,433	4,071
Reclassifications and reversals	(366)	793	(80)	201	—	(604)	—	—	(3)	4	(449)	394	(55)
Write-offs	(12)	(2,683)	(1)	(895)	—	—	—	—	—	(13)	(13)	(3,591)	(3,604)
Translation adjustments	(7)	—	(1)	(3)	—	—	—	—	—	—	(8)	(3)	(11)
Balances at end of the year	926	9,766	732	3,870	3	374	4	86	98	1,045	1,763	15,141	16,904

	2018												Total
	Retail Subscribers		Corporate Subscribers		Foreign Administrations		Domestic Carriers		Dealers, Agents and Others		Total		
	Stage 2	Stage 3	Stage 2	Stage 3	Stage 2	Stage 3	Stage 2	Stage 3	Stage 2	Stage 3	Stage 2	Stage 3	
	(in million pesos)												
Balances at beginning of the year (as restated)	787	7,925	474	3,212	7	925	1	75	147	1,206	1,416	13,343	14,759
Provisions (Note 5)	20	3,109	172	820	44	(13)	2	2	9	27	247	3,945	4,192
Reclassifications and reversals	86	6	(48)	201	(46)	2	—	(3)	(5)	(146)	(13)	60	47
Business combination/dissolution	—	—	—	—	—	—	—	—	(57)	—	(57)	—	(57)
Write-offs	—	(2,109)	—	(328)	—	—	—	—	(3)	(4)	(3)	(2,441)	(2,444)
Translation adjustments	—	—	5	1	—	—	—	—	—	—	5	1	6
Balances at end of the year	893	8,931	603	3,906	5	914	3	74	91	1,083	1,595	14,908	16,503

The significant changes in the balances of trade and other receivables and contract assets are disclosed in *Note 5 – Income and Expenses*, while the information about the credit exposures are disclosed in *Note 28 – Financial Assets and Liabilities*.

18. Inventories and Supplies

As at December 31, 2019 and 2018, this account consists of:

	2019	2018
	(in million pesos)	
Terminal and cellular phone units:		
At net realizable value ⁽¹⁾	2,358	2,093
At cost	3,140	3,423
Spare parts and supplies:		
At net realizable value ⁽¹⁾	462	173
At cost	1,621	1,673
Others:		
At net realizable value ⁽¹⁾	592	612
At cost	954	994
Total inventories and supplies at the lower of cost or net realizable value	3,412	2,878

⁽¹⁾ Amounts are net of allowance for inventory obsolescence and write-downs.

The cost of inventories and supplies recognized as expense for the years ended December 31, 2019, 2018 and 2017 are as follows:

	2019	2018	2017
		(in million pesos)	
Cost of sales	9,528	10,630	10,945
Repairs and maintenance	823	688	716
Provisions (Note 5)	471	1,528	907
Selling and promotions	138	43	1
	10,960	12,889	12,569

Changes in the allowance for inventory obsolescence and write-down for the years ended December 31, 2019 and 2018 are as follows:

	2019	2018	
		(in million pesos)	
Balances at beginning of the year	3,212	2,492	
Provisions (Note 5)	471	1,528	
Write-off	(136)	(121)	
Reclassification	(220)	(100)	
Cost of sales	(495)	(587)	
Reversals	(529)	—	
Balances at end of the year	2,303	3,212	

19. Prepayments

As at December 31, 2019 and 2018, this account consists of:

	2019	2018	
		(in million pesos)	
Advances to suppliers and contractors (Note 25)	41,798	17,703	
Prepaid taxes	13,905	11,466	
Prepaid fees and licenses	1,335	915	
Prepaid repairs and maintenance	458	204	
Prepaid rent	417	672	
Prepaid benefit costs (Note 26)	342	393	
Prepaid insurance (Note 25)	142	63	
Prepaid selling and promotions	24	6	
Other prepayments	1,810	296	
	60,231	31,718	
Less current portion of prepayments	11,298	8,380	
Noncurrent portion of prepayments	48,933	23,338	

Advances to suppliers and contractors are non-interest-bearing and are to be applied to contractors' subsequent progress billings for projects.

Prepaid taxes include creditable withholding taxes and input VAT.

Prepaid benefit costs represent excess of fair value of plan assets over present value of defined benefit obligations recognized in our consolidated statements of financial position. See Note 26 – Pension and Other Employee Benefits.

20. Equity

PLDT's number of shares of subscribed and outstanding capital stock as at December 31, 2019 and 2018 are as follows:

	2019	2018
	(in million shares)	
Authorized		
Non-Voting Serial Preferred Stock	388	388
Voting Preferred Stock	150	150
Common Stock	234	234
Subscribed		
Non-Voting Serial Preferred Stock ⁽¹⁾	300	300
Voting Preferred Stock	150	150
Common Stock	219	219
Outstanding		
Non-Voting Serial Preferred Stock ⁽¹⁾	300	300
Voting Preferred Stock	150	150
Common Stock	216	216
Treasury Stock		
Common Stock	3	3

⁽¹⁾ Includes 300 million shares of Series IV Cumulative Non-Convertible Redeemable Preferred Stock subscribed for Php3 billion, of which Php360 million has been paid.

There were no changes in PLDT's capital account for the years ended December 31, 2019 and 2018.

Preferred Stock

Non-Voting Serial Preferred Stock

On November 5, 2013, the Board of Directors designated 50,000 shares of Non-Voting Serial Preferred Stock as Series JJ 10% Cumulative Convertible Preferred Stock to be issued from January 1, 2013 to December 31, 2015, pursuant to the PLDT Subscriber Investment Plan, or SIP. On June 8, 2015, PLDT issued 870 shares of Series JJ 10% Cumulative Convertible Preferred Stock.

On January 26, 2016, the Board of Directors designated 20,000 shares of Non-Voting Serial Preferred Stock as Series KK 10% Cumulative Convertible Preferred Stock to be issued from January 1, 2016 to December 31, 2020, pursuant to the SIP.

The Series JJ and KK 10% Cumulative Convertible Preferred Stock, or SIP shares, earns cumulative dividends at an annual rate of 10%. After the lapse of one year from the last day of issuance of a particular Series of 10% Cumulative Convertible Preferred Stock, any holder of such series may convert all or any of the shares of 10% Cumulative Convertible Preferred Stock held by him into fully paid and non-assessable shares of Common Stock of PLDT, at a conversion price equivalent to 10% below the average of the high and low daily sales price of a share of Common Stock of PLDT on the PSE, or if there have been no such sales on the PSE on any day, the average of the bid and the ask prices of a share of Common Stock of PLDT at the end of such day on such Exchange, in each case averaged over a period of 30 consecutive trading days prior to the conversion date, but in no case shall the conversion price be less than the par value per share of Common Stock. The number of shares of Common Stock issuable at any time upon conversion of 10% Cumulative Convertible Preferred Stock is determined by dividing Php10.00 by the then applicable conversion price.

In case the shares of Common Stock outstanding are at anytime subdivided into a greater or consolidated into a lesser number of shares, then the minimum conversion price per share of Common Stock will be proportionately decreased or increased, as the case may be, and in the case of a stock dividend, such price will be proportionately decreased, provided, however, that in every case the minimum conversion price shall not be less than the par value per share of Common Stock. In the event the relevant effective date for any such subdivision or consolidation of shares of stock dividend occurs during the period of 30 trading days preceding the presentation of any shares of 10% Cumulative Convertible Preferred Stock for conversion, a similar adjustment will be made in the sales prices applicable to the trading days prior to such effective date utilized in calculating the conversion price of the shares presented for conversion.

In case of any other reclassification or change of outstanding shares of Common Stock, or in case of any consolidation or merger of PLDT with or into another corporation, the Board of Directors shall make such provisions, if any, for adjustment of the minimum conversion price and the sale price utilized in calculating the conversion price as the Board of Directors, in its sole discretion, shall deem appropriate.

At PLDT's option, the Series JJ and KK 10% Cumulative Convertible Preferred Stock are redeemable at par value plus accrued dividends five years after the year of issuance.

The Series IV Cumulative Non-Convertible Redeemable Preferred Stock earns cumulative dividends at an annual rate of 13.5% based on the paid-up subscription price. It is redeemable at the option of PLDT at any time one year after subscription and at the actual amount paid for such stock, plus accrued dividends.

The Non-Voting Serial Preferred Stocks are non-voting, except as specifically provided by law, and are preferred as to liquidation.

All preferred stocks limit the ability of PLDT to pay cash dividends unless all dividends on such preferred stock for all past dividend payment periods have been paid and or declared and set apart and provision has been made for the currently payable dividends.

Voting Preferred Stock

On June 5, 2012, the Philippine SEC approved the amendments to the Seventh Article of PLDT's Articles of Incorporation consisting of the sub-classification of its authorized Preferred Capital Stock into: 150 million shares of Voting Preferred Stock with a par value of Php1.00 each, and 807.5 million shares of Non-Voting Serial Preferred Stock with a par value of Php10.00 each, and other conforming amendments, or the Amendments. The shares of Voting Preferred Stock may be issued, owned, or transferred only to or by: (a) a citizen of the Philippines or a domestic partnership or association wholly-owned by citizens of the Philippines; (b) a corporation organized under the laws of the Philippines of which at least 60% of the capital stock entitled to vote is owned and held by citizens of the Philippines and at least 60% of the board of directors of such corporation are citizens of the Philippines; and (c) a trustee of funds for pension or other employee retirement or separation benefits, where the trustee qualifies under paragraphs (a) and (b) above and at least 60% of the funds accrue to the benefit of citizens of the Philippines, or Qualified Owners. The holders of Voting Preferred Stock will have voting rights at any meeting of the stockholders of PLDT for the election of directors and for all other purposes, with one vote in respect of each share of Voting Preferred Stock. The Amendments were approved by the Board of Directors and stockholders of PLDT on July 5, 2011 and March 22, 2012, respectively.

On October 12, 2012, the Board of Directors, pursuant to the authority granted to it in the Seventh Article of PLDT's Articles of Incorporation, determined the following specific rights, terms and features of the Voting Preferred Stock: (a) entitled to receive cash dividends at the rate of 6.5% per annum, payable before any dividends are paid to the holders of Common Stock; (b) in the event of dissolution or liquidation or winding up of PLDT, holders will be entitled to be paid in full, or pro-rata insofar as the assets of PLDT will permit, the par value of such shares of Voting Preferred Stock and any accrued or unpaid dividends thereon before any distribution shall be made to the holders of shares of Common Stock; (c) redeemable at the option of PLDT; (d) not convertible to Common Stock or to any shares of stock of PLDT of any class; (e) voting rights at any meeting of the stockholders of PLDT for the election of directors and all other matters to be voted upon by the stockholders in any such meetings, with one vote in respect of each Voting Preferred Share; and (f) holders will have no pre-emptive right to subscribe for or purchase any shares of stock of any class, securities or warrants issued, sold or disposed by PLDT.

On October 16, 2012, BTFHI subscribed to 150 million newly issued shares of Voting Preferred Stock of PLDT, at a subscription price of Php1.00 per share for a total subscription price of Php150 million pursuant to a subscription agreement between BTFHI and PLDT dated October 15, 2012. As a result of the issuance of Voting Preferred Shares, the voting power of the NTT Group (NTT DOCOMO and NTT Communications), First Pacific Group and its Philippine affiliates, and JG Summit Group was reduced to 12%, 15% and 5%, respectively, as at December 31, 2019. See *Note 1 – Corporate Information* and *Note 27 – Provisions and Contingencies – In the Matter of the Wilson Gamboa Case and Jose M. Roy III Petition*.

Redemption of Preferred Stock

On September 23, 2011, the Board of Directors approved the redemption, or the Redemption, of all outstanding shares of PLDT's Series A to FF 10% Cumulative Convertible Preferred Stock, or the Series A to FF Shares, from holders of record as of October 10, 2011, and all such shares were redeemed and retired effective on January 19, 2012. In accordance with the terms and conditions of the Series A to FF Shares, the holders of Series A to FF Shares as at January 19, 2012 are entitled to payment of the redemption price in an amount equal to the par value of such shares, plus accrued and unpaid dividends thereon up to January 19, 2012, or the Redemption Price of Series A to FF Shares.

PLDT has set aside Php4,029 million (the amount required to fund the redemption price for the Series A to FF Shares) in addition to Php4,143 million for unclaimed dividends on Series A to FF Shares, or a total amount of Php8,172 million, to fund the redemption of the Series A to FF Shares, or the Redemption Trust Fund, in a trust account, or the Trust Account, in the name of RCBC, as Trustee. Pursuant to the terms of the Trust Account, the Trustee will continue to hold the Redemption Trust Fund or any balance thereof, in trust, for the benefit of holders of Series A to FF Shares, for a period of ten years from January 19, 2012 until January 19, 2022. After the said date, any and all remaining balance in the Trust Account shall be returned to PLDT and revert to its general funds. Any interests on the Redemption Trust Fund shall accrue for the benefit of, and be paid from time to time, to PLDT.

On May 8, 2012, the Board of Directors approved the redemption of all outstanding shares of PLDT's Series GG 10% Cumulative Convertible Preferred Stock, or the Series GG Shares, from the holders of record as of May 22, 2012, and all such shares were redeemed and retired effective August 30, 2012. In accordance with the terms and conditions of the Series GG Shares, the holders of the Series GG Shares as at May 22, 2012 are entitled to the payment of the redemption price in an amount equal to the par value of such shares, plus accrued and unpaid dividends thereon up to August 30, 2012, or the Redemption Price of Series GG Shares.

PLDT has set aside Php236 thousand (the amount required to fund the redemption price for the Series GG Shares) in addition to Php74 thousand for unclaimed dividends on Series GG Shares, or a total amount of Php310 thousand, to fund the redemption price for the Series GG Shares, or the Redemption Trust Fund for Series GG Shares, which forms an integral part of the Redemption Trust Fund previously set aside in the trust account with RCBC, as Trustee, for the purpose of funding the payment of the Redemption Price of Series GG Shares. Pursuant to the terms of the Trust Account, the Trustee will continue to hold the Redemption Trust Fund for Series GG Shares or any balance thereof, in trust, for the benefit of holders of Series GG Shares, for a period of ten years from August 30, 2012, or until August 30, 2022. After the said date, any and all remaining balance in the Redemption Trust Fund for Series GG Shares shall be returned to PLDT and revert to its general funds. Any interests on the Redemption Trust Fund for Series GG Shares shall accrue for the benefit of, and be paid from time to time, to PLDT.

On January 29, 2013, the Board of Directors approved the redemption of all outstanding shares of PLDT's Series HH 10% Cumulative Convertible Preferred Stock which were issued in 2007, or Series HH Shares issued in 2007, from the holders of record as of February 14, 2013 and all such shares were redeemed and retired effective May 16, 2013. In accordance with the terms and conditions of Series HH Shares issued in 2007, the holders of Series HH Shares issued in 2007 as at February 14, 2013 are entitled to the payment of the redemption price in an amount equal to the par value of such shares, plus accrued and unpaid dividends thereon up to May 16, 2013, or the Redemption Price of Series HH Shares issued in 2007.

PLDT has set aside Php24 thousand (the amount required to fund the redemption price for the Series HH Shares issued in 2007) in addition to Php6 thousand for unclaimed dividends on Series HH Shares issued in 2007, or a total amount of Php30 thousand, to fund the redemption price of Series HH Shares issued in 2007, or the Redemption Trust Fund for Series HH Shares issued in 2007, which forms an integral part of the Redemption Trust Funds previously set aside in the trust account with RCBC, as Trustee, for the purpose of funding the payment of the Redemption Price of Series HH Shares issued in 2007. Pursuant to the terms of the Trust Account, the Trustee will continue to hold the Redemption Trust Fund for Series HH Shares issued in 2007 or any balance thereof, in trust, for the benefit of holders of Series HH Shares issued in 2007, for a period of ten years from May 16, 2013, or until May 16, 2023. After the said date, any and all remaining balance in the Redemption Trust Fund for Series HH Shares issued in 2007 shall be returned to PLDT and revert to its general funds. Any interests on the Redemption Trust Fund for Series HH Shares issued in 2007 shall accrue for the benefit of, and be paid from time to time, to PLDT.

On January 28, 2014, the Board of Directors approved the redemption of all outstanding shares of PLDT's Series HH 10% Cumulative Convertible Preferred Stock which were issued in 2008, or the Series HH Shares issued in 2008, from the holders of record as of February 14, 2014 and all such shares were redeemed and retired effective May 16, 2014. In accordance with the terms and conditions of Series HH Shares issued in 2008, the holders of Series HH Shares issued in 2008 as at February 14, 2014 are entitled to the payment of the redemption price in an amount equal to the par value of such shares, plus accrued and unpaid dividends thereon up to May 16, 2014, or the Redemption Price of Series HH Shares issued in 2008.

PLDT has set aside Php2 thousand (the amount required to fund the redemption price of Series HH Shares issued in 2008) in addition to Php1 thousand for unclaimed dividends on Series HH Shares issued in 2008, or a total amount of Php3 thousand, to fund the redemption price of Series HH Shares issued in 2008, or the Redemption Trust Fund for Series HH Shares issued in 2008, which forms an integral part of the Redemption Trust Funds previously set aside in the trust account with RCBC, as Trustee, for the purpose of funding the payment of the Redemption Price of Series HH Shares issued in 2008. Pursuant to the terms of the Trust Account, the Trustee will continue to hold the Redemption Trust Fund for Series HH Shares issued in 2008 or any balance thereof, in trust, for the benefit of holders of Series HH Shares issued in 2008, for a period of ten years from May 16, 2014, or until May 16, 2024. After the said date, any and all remaining balance in the Redemption Trust Fund for Series HH Shares issued in 2008 shall be returned to PLDT and revert to its general funds. Any interests on the Redemption Trust Fund for Series HH Shares issued in 2008 shall accrue for the benefit of, and be paid from time to time, to PLDT.

On January 26, 2016, the Board of Directors approved the redemption of all outstanding shares of PLDT's Series II 10% Cumulative Convertible Preferred Stock, or the Series II Shares, from the holder of record as of February 10, 2016, and all such shares were redeemed and retired effective on May 11, 2016. In accordance with the terms and conditions of Series II Shares, the holders of Series II Shares as at February 10, 2016 is entitled to the payment of the redemption price in an amount equal to the par value of such shares, plus accrued and unpaid dividends thereon up to May 11, 2016, or the Redemption Price of Series II Shares.

PLDT has set aside Php4 thousand to fund the redemption price of Series II Shares, or the Redemption Trust Fund for Series II Shares, which forms an integral part of the Redemption Trust Funds previously set aside in the trust account with RCBC, as Trustee, for the purpose of funding the payment of the Redemption Price of Series II Shares. Pursuant to the terms of the Trust Account, the Trustee will continue to hold the Redemption Trust Fund for Series II Shares or any balance thereof, in trust, for the benefit of holder of Series II Shares, for a period of ten years from May 11, 2016, or until May 11, 2026. After the said date, any and all remaining balance in the Redemption Trust Fund for Series II Shares shall be returned to PLDT and revert to its general funds. Any interests on the Redemption Trust Fund for Series II Shares shall accrue for the benefit of, and be paid from time to time, to PLDT.

As at January 19, 2012, August 30, 2012, May 16, 2013, May 16, 2014 and May 11, 2016, notwithstanding that any stock certificate representing the Series A to FF Shares, Series GG Shares, Series HH Shares issued in 2007, Series HH Shares issued in 2008 and Series II Shares, respectively, were not surrendered for cancellation, the Series A to II Shares were no longer deemed outstanding and the right of the holders of such shares to receive dividends thereon ceased to accrue and all rights with respect to such shares ceased and terminated, except only the right to receive the Redemption Price of such shares, but without interest thereon.

On January 28, 2020, the Board of Directors authorized and approved, the retirement of shares of PLDT's Series JJ 10% Cumulative Convertible Preferred Stock, or SIP Shares, effective May 12, 2020. The record date for the determination of the holders of outstanding SIP Shares available for redemption was February 11, 2020.

Total amounts of Php11 million, Php8 million and Php13 million were withdrawn from the Trust Account, representing total payments on redemption for the years ended December 31, 2019, 2018 and 2017, respectively. The balance of the Trust Account of Php7,851 million and Php7,862 million were presented as part of "Current portion of other financial assets" as at December 31, 2019 and 2018, respectively, and the related redemption liability were presented as part of "Accrued expenses and other current liabilities" in our consolidated statements of financial position. See related disclosures below under Perpetual Notes, *Note 24 – Accrued Expenses and Other Current Liabilities* and *Note 28 – Financial Assets and Liabilities*.

PLDT expects to similarly redeem and retire the outstanding shares of Series KK 10% Cumulative Convertible Preferred Stock as and when they become eligible for redemption.

Common Stock/Treasury Stock

The Board of Directors approved a share buyback program of up to five million shares of PLDT's common stock, representing approximately 3% of PLDT's then total outstanding shares of common stock in 2008. Under the share buyback program, PLDT reacquired shares on an opportunistic basis, directly from the open market through the trading facilities of the PSE and NYSE.

As at November 2010, we had acquired a total of approximately 2.72 million shares of PLDT's common stock at a weighted average price of Php2,388 per share for a total consideration of Php6,505 million in accordance with the share buyback program. There were no further buyback transactions subsequent to November 2010.

Dividends Declared

Our dividends declared for the years ended December 31, 2019, 2018 and 2017 are detailed as follows:

December 31, 2019

Class	Date			Amount	
	Approved	Record	Payable	Per Share	Total
(in million pesos, except per share amounts)					
Cumulative Convertible Preferred Stock					
Series JJ*	May 9, 2019	May 31, 2019	June 28, 2019	1.00	—
Cumulative Non-Convertible Redeemable Preferred Stock					
Series IV*	January 29, 2019	February 22, 2019	March 15, 2019	—	12
	May 9, 2019	May 24, 2019	June 15, 2019	—	12
	August 8, 2019	August 27, 2019	September 15, 2019	—	13
	November 7, 2019	November 22, 2019	December 15, 2019	—	12
					49
Voting Preferred Stock					
	March 7, 2019	March 27, 2019	April 15, 2019	—	3
	June 11, 2019	June 28, 2019	July 15, 2019	—	2
	September 24, 2019	October 8, 2019	October 15, 2019	—	2
	December 3, 2019	December 18, 2019	January 15, 2020	—	3
					10
Common Stock					
Regular Dividend	March 21, 2019	April 4, 2019	April 23, 2019	36.00	7,778
	August 8, 2019	August 27, 2019	September 10, 2019	36.00	7,778
					15,556
Charged to retained earnings					15,615

* Dividends were declared based on total amount paid up.

December 31, 2018

Class	Date			Amount	
	Approved	Record	Payable	Per Share	Total
(in million pesos, except per share amounts)					
Cumulative Convertible Preferred Stock					
Series JJ	June 13, 2018	June 28, 2018	June 29, 2018	1.00	—
Cumulative Non-Convertible Redeemable Preferred Stock					
Series IV*	January 22, 2018	February 21, 2018	March 15, 2018	—	12
	May 10, 2018	May 25, 2018	June 15, 2018	—	12
	August 9, 2018	August 28, 2018	September 15, 2018	—	13
	November 8, 2018	November 23, 2018	December 15, 2018	—	12
					49
Voting Preferred Stock					
	March 8, 2018	March 28, 2018	April 15, 2018	—	3
	June 13, 2018	June 29, 2018	July 15, 2018	—	2
	September 25, 2018	October 9, 2018	October 15, 2018	—	2
	December 4, 2018	December 19, 2018	January 15, 2019	—	3
					10
Common Stock					
Regular Dividend	March 27, 2018	April 13, 2018	April 27, 2018	28.00	6,050
	August 9, 2018	August 28, 2018	September 11, 2018	36.00	7,778
					13,828
Charged to retained earnings					13,887

* Dividends were declared based on total amount paid up.

December 31, 2017

Class	Date			Amount	
	Approved	Record	Payable	Per Share	Total
(in million pesos, except per share amounts)					
Cumulative Convertible Preferred Stock					
Series JJ	May 12, 2017	June 1, 2017	June 30, 2017	1.00	—
Cumulative Non-Convertible Redeemable Preferred Stock					
Series IV*	February 7, 2017	February 24, 2017	March 15, 2017	—	12
	May 12, 2017	May 26, 2017	June 15, 2017	—	12
	August 10, 2017	August 25, 2017	September 15, 2017	—	13
	November 9, 2017	November 28, 2017	December 15, 2017	—	12
					49
Voting Preferred Stock					
	March 7, 2017	March 30, 2017	April 15, 2017	—	3
	June 13, 2017	June 27, 2017	July 15, 2017	—	2
	September 26, 2017	October 10, 2017	October 15, 2017	—	2
	December 5, 2017	December 20, 2017	January 15, 2018	—	3
					10
Common Stock					
Regular Dividend	March 7, 2017	March 21, 2017	April 6, 2017	28.00	6,049
	August 10, 2017	August 25, 2017	September 8, 2017	49.00	10,371
					16,420
Charged to retained earnings					16,479

* Dividends were declared based on total amount paid up.

Our dividends declared after December 31, 2019 are detailed as follows:

Class	Date			Amount	
	Approved	Record	Payable	Per Share	Total
(in million pesos, except per share amounts)					
Cumulative Non-Convertible Redeemable Preferred Stock					
Series IV*	January 28, 2020	February 24, 2020	March 15, 2020	—	12
Voting Preferred Stock	March 5, 2020	March 25, 2020	April 15, 2020	—	3
					15
Common Stock					
Regular Dividend	March 5, 2020	March 19, 2020	April 3, 2020	39	8,426
Charged to retained earnings					8,441

* Dividends were declared based on total amount paid up.

Perpetual Notes

Smart issued Php2,610 million and Php1,590 million perpetual notes on March 3, 2017 and March 6, 2017, respectively, under two Notes Facility Agreements dated March 1, 2017 and March 2, 2017, respectively. The transaction costs amounting to Php35 million were accounted as a deduction from the perpetual notes. Smart paid distributions amounting to Php236 million each as at December 31, 2019 and 2018, while Php177 million as at December 31, 2017.

On July 18, 2017, Smart issued Php1,100 million perpetual notes to RCBC, Trustee of PLDT's Redemption Trust Fund, under the Notes Facility Agreement dated July 18, 2017. The transaction costs amounting to Php5 million were accounted as a deduction from the perpetual notes. Smart paid distributions amounting to Php57 million each as at December 31, 2019 and 2018. This transaction was eliminated in our consolidated financial statements.

On September 19, 2019, Smart issued Php4,700 million perpetual notes to DMPI under the Notes Facility Agreement dated September 16, 2019. The transaction cost amounting to Php35 million was accounted as a deduction from the perpetual notes. Smart paid distributions amounting to Php70 million as at December 31, 2019. This transaction was eliminated in our consolidated financial statements.

Proceeds from the issuance of these notes are intended to finance capital expenditures. The notes have no fixed redemption dates. However, Smart may, at its sole option, redeem the notes. In accordance with PAS 32, *Financial Instruments: Presentation*, the notes are classified as part of equity in the financial statements. The notes are subordinated to and rank junior to all senior loans of Smart.

Retained Earnings Available for Dividend Declaration

The following table shows the reconciliation of our consolidated retained earnings available for dividend declaration as at December 31, 2019:

	(in million pesos)
Consolidated unappropriated retained earnings as at December 31, 2018 (as previously stated)	6,861
Effect of PAS 27, <i>Consolidated and Separate Financial Statements</i> , adjustments	25,692
Effect of adoption of PFRS 16	(136)
Parent Company's unappropriated retained earnings at beginning of the year (as restated)	32,417
Less: Cumulative unrealized income – net of tax:	
Unrealized foreign exchange gains – net (except those attributable to cash and cash equivalents)	(523)
Fair value adjustments of investment property resulting to gain	(888)
Fair value adjustments (mark-to-market gains)	(3,440)
Parent Company's unappropriated retained earnings available for dividends as at January 1, 2019	27,566
Parent Company's net income for the year	18,381
Less: Fair value adjustment of investment property resulting to gain	(229)
Unrealized foreign exchange gains – net (except those attributable to cash and cash equivalents)	(473)
	17,679
Less: Cash dividends declared during the year	
Preferred stock	(59)
Common stock	(15,556)
	(15,615)
Parent Company's unappropriated retained earnings available for dividends as at December 31, 2019	29,630

As at December 31, 2019, our consolidated unappropriated retained earnings amounted to Php18,063 million while the Parent Company's unappropriated retained earnings amounted to Php35,182 million. The difference of Php17,119 million pertains to the effect of PAS 27 in our investments in subsidiaries, associates and joint ventures accounted for under equity method.

As at December 31, 2018, our consolidated unappropriated retained earnings amounted to Php12,081 million while the Parent Company's unappropriated retained earnings amounted to Php32,553 million. The difference of Php20,472 million pertains to the effect of PAS 27 in our investments in subsidiaries, associates and joint ventures accounted for under equity method.

21. Interest-bearing Financial Liabilities

As at December 31, 2019 and 2018, this account consists of the following:

	2019	2018
	(in million pesos)	
Long-term portion of interest-bearing financial liabilities:		
Long-term debt (Notes 28 and 29)	172,834	155,835
Current portion of interest-bearing financial liabilities:		
Long-term debt maturing within one year (Notes 28 and 29)	19,722	20,441
	192,556	176,276

Unamortized debt discount, representing debt issuance costs and any difference between the fair value of consideration given or received at initial recognition, included in our financial liabilities amounted to Php491 million and Php418 million as at December 31, 2019 and 2018, respectively. See *Note 28 – Financial Assets and Liabilities*.

The following table describes all changes to unamortized debt discount for the years ended December 31, 2019 and 2018:

	2019	2018
	(in million pesos)	
Unamortized debt discount at beginning of the year	418	525
Additions during the year	195	38
Accretion during the year included as part of Financing costs – net (Note 5)	(122)	(145)
Unamortized debt discount at end of the year	491	418

Short-term Debt

In March 2020, PLDT and Smart availed short-term debt from various banks amounting to Php2,000 million each. There were no outstanding short-term debt as at December 31, 2019 and 2018.

Long-term Debt

As at December 31, 2019 and 2018, long-term debt consists of:

Description	Interest Rates	2019		2018	
		U.S. Dollar	Php	U.S. Dollar	Php
(in millions)					
U.S. Dollar Debts:					
Export Credit Agencies-Supported Loans:					
Exportkreditnamnden, or EKN	1.4100% in 2019 and 2018	—	—	2	103
Term Loans:					
Others	2.8850% and US\$ LIBOR + 0.7900% to 1.4500% in 2019 and 2.8850% and US\$ LIBOR + 0.7900% to 1.6000% in 2018	335	17,029	442	23,249
		335	17,029	444	23,352
Philippine Peso Debts:					
Fixed Rate Corporate Notes	5.3938% to 5.9058% in 2019 and 2018		6,152		15,511
Fixed Rate Retail Bonds	5.2250% to 5.2813% in 2019 and 2018		14,965		14,943
Term Loans:					
Unsecured Term Loans	3.9000% to 6.7339%; PHP BVAL + 0.6000% to 1.0000% and PDST-R2 + 0.5000% to 0.6000% in 2019 and 3.9000% to 6.7339%; PDST-R2 ⁽¹⁾ PHP BVAL + 0.5000% to 1.0000% in 2018		154,410		122,470
			175,527		152,924
Total long-term debt (Notes 28 and 29)			192,556		176,276
Less portion maturing within one year (Note 28)			19,722		20,441
Noncurrent portion of long-term debt (Note 28)			172,834		155,835

⁽¹⁾ Effective October 29, 2018, PHP BVAL Reference Rates replaced PDST Reference Rates (PDST-R1 and PDST-R2).

The scheduled maturities of our consolidated outstanding long-term debt at nominal values as at December 31, 2019 are as follows:

Year	U.S. Dollar Debt		Php Debt	Total
	U.S. Dollar	Php	Php	Php
	(in millions)			
2020	210	10,687	9,148	19,835
2021	46	2,306	20,303	22,609
2022	30	1,543	15,487	17,030
2023	25	1,270	25,193	26,463
2024	25	1,270	12,555	13,825
2025 and onwards	—	—	93,285	93,285
Total long-term debt (Note 28)	336	17,076	175,971	193,047

In order to acquire imported components for our network infrastructure in connection with our expansion and service improvement programs, we obtained loans extended and/or guaranteed by various export credit agencies as at December 31, 2019 and 2018:

Loan Amount	Date of Loan Agreement	Lender(s)	Terms			Dates Drawn	Drawn Amount	Cancelled Undrawn Amount	Paid in full on	Outstanding Amounts			
			Installments	Final Installment						2019		2018	
						U.S. Dollar			U.S. Dollar	Php	U.S. Dollar	Php	
						(in millions)			(in millions)	(in millions)			
U.S. Dollar Debts													
EKN, the Export-Credit Agency of Sweden													
Smart													
US\$45.6M ⁽¹⁾	February 22, 2013	Nordea Bank, subsequently assigned to SEK on July 3, 2013	10 equal semi-annual, commencing 6 months after the applicable mean delivery date	Tranche A1 and B1: July 16, 2018; Tranche A2 and B2: April 15, 2019	Various dates in 2013-2014	45.6	—	July 16, 2018 and April 15, 2019	—	—	2 ^(*)	103 ^(*)	
US\$19M;											2	103	
US\$0.9M;													
US\$0.7M													

^(*) Amounts are net of unamortized discount and/or debt issuance cost.

⁽¹⁾ The purpose of this loan is to finance the supply and services contracts for the modernization and expansion project.

Loan Amount	Date of Loan Agreement	Lender(s)	Terms	Dates Drawn	Drawn	Cancelled	Paid in full on	Outstanding Amounts			
					Amount	Undrawn		2019		2018	
					U.S. Dollar	Amount		U.S. Dollar	Php	U.S. Dollar	Php
					(in millions)		(in millions)				
U.S. Dollar Debts											
Other Term Loans⁽¹⁾											
PLDT											
US\$300M	January 16, 2013	Syndicate of Banks with MUFG Bank, Ltd. as Facility Agent	9 equal semi-annual installment, commencing on the date which falls 12 months after the date of the loan agreement, with final installment on January 16, 2018	Various dates in 2013	300	—	January 16, 2018	—	—	—	—
Smart											
US\$50M	March 25, 2013	FEC	9 equal semi-annual installment, commencing six months after drawdown date, with final installment on March 23, 2018	Various dates in 2013 and 2014	32	18	March 23, 2018	—	—	—	—
Smart											
US\$80M	May 31, 2013	China Banking Corporation, or CBC	10 equal semi-annual installment, commencing six months after drawdown date, with final installment on May 31, 2018	September 25, 2013	80	—	May 31, 2018	—	—	—	—
Smart											
US\$120M	June 20, 2013	Mizuho Bank Ltd. and Sumitomo Mitsui Banking Corporation, or Sumitomo, with Sumitomo as Facility Agent	8 equal semi-annual installment, commencing six months after drawdown date, with final installment on June 20, 2018	September 25, 2013	120	—	June 20, 2018	—	—	—	—
Smart											
US\$100M	March 7, 2014	MUFG Bank, Ltd.	9 equal semi-annual installment, commencing 12 months after drawdown date, with final installment on March 7, 2019	Various dates in 2014 March 2, 2015	90 10	—	March 7, 2019	—	—	11 (*)	583 (*)
Smart											
US\$50M	May 14, 2014	Mizuho Bank Ltd.	9 equal semi-annual installment, commencing 11 months after drawdown date, with final installment on May 14, 2019	July 1, 2014	50	—	May 14, 2019	—	—	6 (*)	291 (*)
PLDT											
US\$100M	August 5, 2014	Philippine National Bank, or PNB	Annual amortization rate of 1% of the issue price on the first-year up to the fifth-year from the initial drawdown date, with final installment on August 11, 2020	Various dates in 2014	100	—	—	95	4,826	96	5,046
PLDT											
US\$50M	August 29, 2014	Metrobank	Annual amortization rate of 1% of the issue price payable semi-annually starting on the first-year up to the fifth-year from the initial drawdown date and the balance payable upon maturity on September 2, 2020	September 2, 2014	50	—	—	48	2,426	48	2,536
								143	7,252	161	8,456

⁽¹⁾ The purpose of this loan is to finance capital expenditures and/or to refinance existing loan obligations which were utilized for network expansion and improvement programs.

Loan Amount	Date of Loan Agreement	Lender(s)	Terms	Dates Drawn	Drawn Amount	Cancelled Undrawn Amount	Paid in full on	Outstanding Amounts				
								2019		2018		
								U.S. Dollar	Php	U.S. Dollar	Php	
					(in millions)			(in millions)				
PLDT												
US\$200M Tranche A: US\$150M; Tranche B: US\$50M	February 26, 2015	MUFG Bank, Ltd.	Commencing 36 months after loan date, with semi-annual amortization of 23.75% of the loan amount on the first and second repayment dates and seven semi-annual amortizations of 7.5% starting on the third repayment date, with final installment on February 25, 2022	Various dates in 2015	200	—	—	74 (*)	3,797 (*)	104 (*)	5,492 (*)	
Smart												
US\$200M	March 4, 2015	Mizuho Bank Ltd.	9 equal semi-annual installments commencing on the date which falls 12 months after the loan date, with final installment on March 4, 2020	Various dates in 2015	200	—	March 4, 2020	22 (*)	1,128 (*)	66 (*)	3,490 (*)	
Smart												
US\$100M	December 7, 2015	Mizuho Bank Ltd.	13 equal semi-annual installments commencing on the date which falls 12 months after the loan date, with final installment on December 7, 2022	Various dates in 2016	100	—	—	46 (*)	2,324 (*)	61 (*)	3,198 (*)	
PLDT												
US\$25M	March 22, 2016	NTT Finance Corporation	Non-amortizing, payable upon maturity on March 30, 2023	March 30, 2016	25	—	—	25 (*)	1,265 (*)	25 (*)	1,307 (*)	
PLDT												
US\$25M	January 31, 2017	NTT Finance Corporation	Non-amortizing, payable upon maturity on March 27, 2024	March 30, 2017	25	—	—	25 (*)	1,263 (*)	25 (*)	1,306 (*)	
Smart												
US\$140M	March 4, 2020	PNB	Quarterly amortization rates equivalent to: (a) 2.5% of the total amount drawn payable on the first interest payment date up to the 28th interest payment date; (b) 5% of the total amount drawn payable on the 29th interest payment date up to the 32nd interest payment date; and (3) 2.5% of the total amount drawn payable on the 37th interest payment date up to maturity.	—	—	—	—	—	—	—	—	
								192	9,777	281	14,793	

(*) Amounts are net of unamortized debt discount and/or debt issuance cost.

Loan Amount	Date of Loan Agreement	Facility Agent	Installments	Date of Issuance/ Drawdown	Payments		Outstanding Amounts	
					Amount Php (in millions)	Date	2019 Php (in millions)	2018 Php
Philippine Peso Debts								
Fixed Rate Corporate Notes⁽¹⁾								
PLDT								
Php1,500M	July 25, 2012	Metrobank	Annual amortization rate of 1% of the issue price on the first-year up to the sixth-year from issue date and the balance payable upon maturity on July 27, 2019	July 27, 2012	1,188 282	July 29, 2013 April 29, 2019	—	282
PLDT								
Php8,800M Series A: Php4,610M;	September 19, 2012	Metrobank	Series A: 1% annual amortization on the first up to sixth-year, with the balance payable on September 21, 2019;	September 21, 2012	2,055 2,741	June 21, 2013 September 23, 2019	3,599	6,340
Series B: Php4,190M			Series B: 1% annual amortization on the first up to ninth-year, with the balance payable on September 21, 2022					
PLDT								
Php6,200M Series A: 7-year notes Php3,775M;	November 20, 2012	BDO Unibank, Inc., or BDO	Series A: Annual amortization rate of 1% of the issue price on the first-year up to the sixth-year from issue date and the balance payable upon maturity on November 22, 2019;	November 22, 2012	3,549	February 22, 2019	2,255	5,828
Series B: 10-year notes Php2,425M			Series B: Annual amortization rate of 1% of the issue price on the first-year up to the ninth-year from issue date and the balance payable upon maturity on November 22, 2022					
PLDT								
Php2,055M Series A: Php1,735M;	June 14, 2013	Metrobank	Series A: Annual amortization rate of 1% of the issue price up to the fifth-year and the balance payable upon maturity on September 21, 2019;	June 21, 2013	1,644	September 23, 2019	298	1,932
Series B: Php320M			Series B: Annual amortization rate of 1% of the issue price up to the eighth-year and the balance payable upon maturity on September 21, 2022					
PLDT								
Php1,188M	July 19, 2013	Metrobank	Annual amortization rate of 1% of the issue on the first-year up to the fifth-year from the issue date and the balance payable upon maturity on July 27, 2019	July 29, 2013	1,129	April 29, 2019	—	1,129
							6,152	15,511

⁽¹⁾ The purpose of this loan is to finance capital expenditures and/or refinance existing loan obligations which were utilized for network expansion and improvement programs.

Loan Amount	Date of Loan Agreement	Paying Agent	Terms	Date of Issuance/ Drawdown	Payments		Outstanding Amounts	
					Amount Php (in millions)	Date	2019 Php (in millions)	2018 Php
Fixed Rate Retail Bonds⁽¹⁾								
PLDT								
Php15,000M	January 22, 2014	Philippine Depository Trust Corp.	Php12.4B – non-amortizing, payable in full upon maturity on February 6, 2021; Php2.6B – non-amortizing payable in full on February 6, 2024	February 6, 2014	—	—	14,965 ^(*)	14,943 ^(*)

^(*) Amounts are net of unamortized debt discount and/or debt issuance cost.

⁽¹⁾ The purpose of this loan is to finance capital expenditures and/or refinance existing loan obligations which were utilized for network expansion and improvement programs.

Loan Amount	Date of Loan Agreement	Lender(s)	Terms	Dates Drawn	Drawn Amount Php (in millions)	Cancelled Undrawn Amount Php	Paid in full on	Outstanding Amounts	
								2019 Php (in millions)	2018 Php
Term Loans									
Unsecured Term Loans⁽¹⁾									
PLDT									
Php2,000M	March 20, 2012	RCBC	Annual amortization rate of 1% on the fifth-year up to the ninth-year from the initial drawdown date and the balance payable upon maturity on April 12, 2022	April 12, 2012	2,000	—	—	1,940	1,960
PLDT									
Php200M	August 31, 2012	Manufacturers Life Insurance Co. (Phils.), Inc.	Payable in full upon maturity on October 9, 2019	October 9, 2012	200	—	April 10, 2019	—	200
PLDT									
Php1,000M	September 3, 2012	Union Bank of the Philippines, or Union Bank	Annual amortization rate of 1% on the first-year up to the sixth-year from the initial drawdown date and the balance payable upon maturity on January 13, 2020	January 11, 2013	1,000	—	January 13, 2020	940	950
PLDT									
Php1,000M	October 11, 2012	Philippine American Life and General Insurance Company, or Philam Life	Payable in full upon maturity on December 5, 2022	December 3, 2012	1,000	—	—	1,000	1,000
Smart									
Php3,000M	December 17, 2012	LBP	Annual amortization rate of 1% of the principal amount on the first-year up to the sixth-year commencing on the first-year anniversary of the initial drawdown and the balance payable upon maturity on December 20, 2019	Various dates in 2012-2013	3,000	—	December 20, 2019	—	2,820
PLDT									
Php2,000M	November 13, 2013	Bank of the Philippine Islands, or BPI	Annual amortization rate of 1% on the first-year up to the sixth-year from the initial drawdown and the balance payable upon maturity on November 22, 2020	Various dates in 2013-2014	2,000	—	—	1,880	1,900
Smart									
Php3,000M	November 25, 2013	Metrobank	Annual amortization rate of 10% of the total amount drawn for six-years and the final installment is payable upon maturity on November 27, 2020	November 29, 2013	3,000	—	—	1,199 ^(*)	1,497 ^(*)
								6,959	10,327

^(*) Amounts are net of unamortized debt discount and/or debt issuance cost.

⁽¹⁾ The purpose of this loan is to finance the capital expenditures and/or refinance existing loan obligations, which were utilized for service improvements and expansion programs.

Loan Amount	Date of Loan Agreement	Lender(s)	Terms	Dates Drawn	Drawn Amount Php	Cancelled Undrawn Amount Php	Paid in full on	Outstanding Amounts	
								2019 Php	2018 Php
					(in millions)		(in millions)		
Smart Php3,000M	December 3, 2013	BPI	Annual amortization rate of 1% of the total amount drawn for the first six-years and the final installment is payable upon maturity on December 10, 2020	December 10, 2013	3,000	—	—	2,818 ^(*)	2,846 ^(*)
Smart Php3,000M	January 29, 2014	LBP	Annual amortization rate of 1% of the principal amount on the first-year up to the sixth-year commencing on the first-year anniversary of the initial drawdown and the balance payable upon maturity on February 5, 2021	February 5, 2014	3,000	—	—	2,847 ^(*)	2,875 ^(*)
Smart Php500M	February 3, 2014	LBP	Annual amortization rate of 1% of the principal amount on the first-year up to the sixth-year commencing on the first-year anniversary of the initial drawdown and the balance payable upon maturity on February 5, 2021	February 7, 2014	500	—	—	475	480
Smart Php2,000M	March 26, 2014	Union Bank	Annual amortization rate of 1% of the principal amount on the first-year up to the sixth-year commencing on the first-year anniversary of the initial drawdown and the balance payable upon maturity on March 29, 2021	March 28, 2014	2,000	—	—	1,900	1,920
PLDT Php1,500M	April 2, 2014	Philam Life	Payable in full upon maturity on April 4, 2024	April 4, 2014	1,500	—	—	1,500	1,500
Smart Php500M	April 2, 2014	BDO	Annual amortization rate of 1% of the principal amount on the first-year up to the sixth-year commencing on the first-year anniversary of the initial drawdown and the balance payable upon maturity on April 2, 2021	April 4, 2014	500	—	—	475	480
PLDT Php1,000M	May 23, 2014	Philam Life	Payable in full upon maturity on May 28, 2024	May 28, 2014	1,000	—	—	1,000	1,000
PLDT Php1,000M	June 9, 2014	LBP	Annual amortization rate of 1% on the first-year up to the ninth-year from initial drawdown date and the balance payable upon maturity on June 13, 2024	June 13, 2014	1,000	—	—	950	960
PLDT Php1,500M	July 28, 2014	Union Bank	Annual amortization rate of 1% on the first-year up to the ninth-year from initial drawdown date and the balance payable upon maturity on July 31, 2024	July 31, 2014	1,500	—	—	1,425	1,440
PLDT Php2,000M	February 25, 2015	BPI	Annual amortization rate of 1% on the first-year up to the ninth-year from initial drawdown date and the balance payable upon maturity on March 24, 2025	March 24, 2015	2,000	—	—	1,920	1,940
PLDT Php3,000M	June 26, 2015	BPI	Annual amortization rate of 1% on the first-year up to the ninth-year from initial drawdown date and the balance payable upon maturity on June 30, 2025	June 30, 2015	3,000	—	—	2,880	2,910
								18,190	18,351

^(*) Amounts are net of unamortized debt discount and/or debt issuance cost.

Loan Amount	Date of Loan Agreement	Lender(s)	Terms	Dates Drawn	Drawn	Cancelled	Paid in	Outstanding Amounts	
					Amount	Undrawn		2019	2018
					Php	Php	full on	Php	Php
					(in millions)			(in millions)	
PLDT Php5,000M	August 3, 2015	Metrobank	Annual amortization rate of 1% on the first-year up to the ninth-year from initial drawdown date and the balance payable upon maturity on September 23, 2025	Various dates in 2015	5,000	—	—	4,800	4,850
Smart Php5,000M	August 11, 2015	Metrobank	Annual amortization rate of 1% of the principal amount on the first-year up to the ninth-year commencing on the first-year anniversary of the initial drawdown date and the balance payable upon maturity on September 1, 2025	September 1, 2015	5,000	—	—	4,785 ^(*)	4,833 ^(*)
Smart Php5,000M	December 11, 2015	BPI	Annual amortization rate of 1% of the principal amount on the first-year up to the ninth-year commencing on the first-year anniversary of the initial drawdown date and the balance payable upon maturity on December 21, 2025	December 21, 2015	5,000	—	—	4,784 ^(*)	4,832 ^(*)
Smart Php5,000M	December 16, 2015	Metrobank	Annual amortization rate of 1% of the principal amount up to the tenth-year commencing on the first-year anniversary of the initial drawdown and the balance payable upon maturity on June 29, 2026	December 28, 2015	5,000	—	—	4,784 ^(*)	4,831 ^(*)
Smart Php7,000M	December 18, 2015	CBC	Annual amortization rate of 1% of the principal amount on the third-year up to the sixth-year from the initial drawdown date, with balance payable upon maturity on December 28, 2022	December 28, 2015 and February 24, 2016	7,000	—	—	5,593 ^(*)	6,289 ^(*)
PLDT Php3,000M	July 1, 2016	Metrobank	Annual amortization rate of 1% on the first-year up to the ninth-year from initial drawdown date and the balance payable upon maturity on February 22, 2027	February 20, 2017	3,000	—	—	2,929 ^(*)	2,957 ^(*)
PLDT Php6,000M	July 1, 2016	Metrobank	Annual amortization rate of 1% on the first-year up to the sixth-year from initial drawdown date and the balance payable upon maturity on August 30, 2023	August 30, 2016 and November 10, 2016	6,000	—	—	5,804 ^(*)	5,859 ^(*)
PLDT Php8,000M	July 14, 2016	Security Bank	Annual amortization rate of 1% of the total amount drawn payable semi-annually starting from the end of the first-year after the initial drawdown date until the ninth-year and the balance payable on maturity on March 1, 2027	February 27, 2017	8,000	—	—	7,651 ^(*)	7,807 ^(*)
PLDT Php6,500M	September 20, 2016	BPI	Annual amortization rate of 1% on the first-year up to the sixth-year from initial drawdown date and the balance payable upon maturity on November 2, 2023	November 2, 2016 and December 19, 2016	6,500	—	—	6,286 ^(*)	6,346 ^(*)
								47,416	48,604

^(*) Amounts are net of unamortized debt discount and/or debt issuance cost.

Loan Amount	Date of Loan Agreement	Lender(s)	Terms	Dates Drawn	Drawn Amount Php	Cancelled Undrawn Amount Php	Paid in full on	Outstanding Amounts	
								2019 Php	2018 Php
					(in millions)			(in millions)	
Smart Php3,000M	September 28, 2016	BDO	Annual amortization rate of 1% of the principal amount on the first-year up to the ninth-year anniversary of the initial drawdown date and the balance payable upon maturity on October 5, 2026	October 5, 2016	3,000	—	—	2,910	2,940
Smart Php5,400M	September 28, 2016	Union Bank	Annual amortization rate of 1% of the principal amount on the first-year up to the sixth-year anniversary of the initial drawdown date and the balance payable upon maturity on October 24, 2023	October 24, 2016 and November 21, 2016	5,400	—	—	5,229 ^(*)	5,281 ^(*)
PLDT Php3,300M	October 14, 2016	BPI	Annual amortization rate of 1% on the first-year up to the sixth-year from initial drawdown date and the balance payable upon maturity on December 19, 2023	December 19, 2016	5,300	—	—	5,125 ^(*)	5,175 ^(*)
Smart Php2,500M	October 27, 2016	CBC	Annual amortization rate of 10% of the amount drawn starting on the third-year up to the sixth-year, with balance payable upon maturity on December 8, 2023	December 8, 2016	2,500	—	—	2,250	2,500
Smart Php4,000M	October 28, 2016	Security Bank	Semi-annual amortization rate of 1% of the total amount drawn from first-year up to the ninth-year and the balance payable upon maturity on April 5, 2027	April 5, 2017	4,000	—	—	1,935 ^(*)	1,953 ^(*)
Smart Php1,000M	December 16, 2016	PNB	Annual amortization rate of 1% of the amount drawn starting on the first anniversary of the advance up to the ninth anniversary of the advance and the balance payable upon maturity on December 7, 2027	December 7, 2017	1,000	—	—	980	990
Smart Php2,000M	December 22, 2016	LBP	Annual amortization rate of 1% of the amount drawn starting on the first anniversary of the advance up to the ninth anniversary of the advance and the balance payable upon maturity on January 21, 2028	January 22, 2018	2,000	—	—	1,980	2,000
PLDT Php3,500M	December 23, 2016	LBP	Annual amortization rate of 1% on the first-year up to the ninth-year after the drawdown date and the balance payable upon maturity on April 5, 2027	April 5, 2017	3,500	—	—	3,417 ^(*)	3,450 ^(*)
Smart Php1,500M	April 18, 2017	PNB	Annual amortization rate of 1% of the amount drawn starting on the first anniversary of the advance up to the sixth-year anniversary of the advance and the balance payable upon maturity on January 3, 2025	January 3, 2018	1,500	—	—	1,485	1,500
								25,311	25,789

^(*) Amounts are net of unamortized debt discount and/or debt issuance cost.

Loan Amount	Date of Loan Agreement	Lender(s)	Terms	Dates Drawn	Drawn Amount Php	Cancelled Undrawn Amount Php	Paid in full on	Outstanding Amounts		
								2019 Php	2018 Php	
					(in millions)				(in millions)	
PLDT Php2,000M	May 24, 2017	Security Bank	Semi-annual amortization rate of Php10 million starting on October 5, 2017 and every six months thereafter with the balance payable upon maturity on April 5, 2027	May 29, 2017	2,000	—	—	1,950	1,970	
PLDT Php3,500M	July 5, 2017	LBP	Annual amortization rate of 1% on the first-year up to the ninth-year after the drawdown date and the balance payable upon maturity on July 12, 2027	July 10, 2017	3,500	—	—	3,430	3,465	
PLDT Php1,500M	August 29, 2017	LBP	Annual amortization rate equivalent to 1% of the total loan payable on the first-year up to the ninth-year after the drawdown date and the balance payable upon maturity on April 3, 2028	April 2, 2018	1,500	—	—	1,485	1,500	
Smart Php1,000M	September 28, 2017	Union Bank	Annual amortization rate of 1% of the amount drawn starting on the first-year anniversary of the advance up to the ninth-year anniversary of the advance and the balance payable upon maturity on February 21, 2028	February 19, 2018	1,000	—	—	990	1,000	
PLDT Php2,000M	April 19, 2018	LBP	Annual amortization rate equivalent to 1% of the total loan payable on the first-year up to the ninth-year after the drawdown date and the balance payable upon maturity on April 25, 2028	April 25, 2018	2,000	—	—	1,980	2,000	
PLDT Php1,000M	April 20, 2018	LBP	Annual amortization rate equivalent to 1% of the total loan payable on the first-year up to the ninth-year after the drawdown date and the balance payable upon maturity on May 3, 2028	May 3, 2018	1,000	—	—	990	1,000	
PLDT Php2,000M	May 9, 2018	BPI	Annual amortization rate equivalent to 1% of the amount drawn starting on the first-year anniversary of the advance up to the ninth-year anniversary of the advance and the balance payable upon maturity on May 10, 2028	May 10, 2018	2,000	—	—	1,980	2,000	
PLDT Php3,000M	May 9, 2018	BPI	Annual amortization rate equivalent to 1% of the amount drawn starting on the first-year anniversary of the advance up to the ninth-year anniversary of the advance and the balance payable upon maturity on May 10, 2028	May 10, 2018	3,000	—	August 10, 2018	—	—	
								12,805	12,935	

(*) Amounts are net of unamortized debt discount and/or debt issuance cost.

Loan Amount	Date of Loan Agreement	Lender(s)	Terms	Dates Drawn	Drawn Amount Php	Cancelled Undrawn Amount Php	Paid in full on	Outstanding Amounts	
								2019 Php	2018 Php
					(in millions)		(in millions)		
Smart Php2,000M	May 25, 2018	BPI	Annual amortization rate equivalent to 1% of the amount drawn starting on the first-year anniversary of the advance up to the fifth-year anniversary of the advance and the balance payable upon maturity on May 28, 2024	May 28, 2018	2,000	—	—	1,969 ^(*)	1,986 ^(*)
Smart Php1,500M	June 27, 2018	Development Bank of the Philippines, or DBP	Annual amortization rate equivalent to 1% of the amount drawn starting on the third-year anniversary of the advance up to the fifth-year anniversary of the advance and the balance payable upon maturity on June 28, 2024	June 28, 2018	1,500	—	—	1,500	1,500
Smart Php3,000M	July 31, 2018	BPI	Annual amortization rate equivalent to 1% of the amount drawn starting on the first-year anniversary of the advance up to the ninth-year anniversary of the advance and the balance payable upon maturity on May 10, 2028	August 10, 2018	3,000	—	—	2,950 ^(*)	2,978 ^(*)
Smart Php5,000M	January 11, 2019	DBP	Annual amortization rate equivalent to 1% of the amount drawn starting on the third-year anniversary of the advance up to the ninth-year anniversary of the advance and the balance payable upon maturity on May 7, 2029	May 6, 2019 September 2, 2019	2,000 3,000	—	—	4,978 ^(*)	—
PLDT Php8,000M	February 18, 2019	Union Bank	Annual amortization rate equivalent to 1% of the amount drawn starting on the first-year anniversary up to the ninth-year anniversary of the initial drawdown date and the balance payable upon maturity on July 11, 2029	July 11, 2019 September 6, 2019 October 1, 2019 November 5, 2019	3,000 2,000 1,000 2,000	—	—	7,978 ^(*)	—
Smart Php4,000M	February 21, 2019	PNB	Annual amortization rate equivalent to 1% of the amount drawn starting on the first-year anniversary up to the seventh-year anniversary of the initial drawdown date and the balance payable upon maturity on March 11, 2027	March 11, 2019	4,000	—	—	3,972 ^(*)	—
PLDT Php2,000M	April 11, 2019	Bank of China Limited, Manila Branch	Annual amortization rate equivalent to 1% of the amount of loan payable on the first-year anniversary up to the sixth-year anniversary of the initial drawdown date and the balance payable upon maturity on September 7, 2026	September 6, 2019	2,000	—	—	1,985 ^(*)	—
PLDT Php2,000M	July 1, 2019	PNB	Annual amortization rate equivalent to 1% of the total amount drawn from the facility on the first-year anniversary up to the sixth-year anniversary of the initial drawdown date and the balance payable upon maturity on September 7, 2026	September 6, 2019	2,000	—	—	1,985 ^(*)	—
Smart Php8,000M	September 25, 2019	CBC	Annual amortization rate equivalent to 10% of the total amount drawn starting on the third-year anniversary up to the ninth-year anniversary of the initial drawdown date and the balance payable upon maturity on October 2, 2029	October 2, 2019	8,000	—	—	7,942 ^(*)	—
								35,259	6,464

^(*) Amounts are net of unamortized debt discount and/or debt issuance cost.

Loan Amount	Date of Loan		Terms	Dates Drawn	Drawn Amount Php	Cancelled Undrawn Amount Php	Paid in full on	Outstanding Amounts	
	Agreement	Lender(s)						2019	2018
					(in millions)		(in millions)		
Smart Php4,000M	December 9, 2019	DBP	Annual amortization rate equivalent to 1% of the total amount drawn starting on the third-year anniversary up to the ninth-year anniversary of the initial drawdown date and the balance payable upon maturity on December 12, 2029	December 12, 2019	4,000	—	—	3,970 ^(*)	—
PLDT Php4,500M	December 12, 2019	BPI	Annual amortization rate equivalent to 1% of the advance on the first year up to the ninth-year anniversary of the drawdown date and the balance payable upon maturity on December 18, 2029	December 18, 2019	4,500	—	—	4,500	—
Smart Php3,000M	January 20, 2020	BDO	Annual amortization rate equivalent to 1% of the total amount drawn starting on the first-year anniversary up to the ninth-year anniversary of the drawdown date and the balance payable upon maturity on January 24, 2030	January 24, 2020	3,000	—	—	—	—
PLDT Php5,000M	January 29, 2020	BDO	Annual amortization rate equivalent to 1% of the total amount drawn starting on the first-year anniversary up to the ninth-year anniversary of the drawdown date and the balance payable upon maturity on January 31, 2030	January 31, 2020	5,000	—	—	—	—
PLDT Php4,000M	March 24, 2020	RCBC	Annual amortization rate equivalent to 1% of the advance starting on the first-year anniversary of the drawdown date and the balance payable upon maturity on March 27, 2028	March 26, 2020	4,000	—	—	—	—
PLDT Php2,500M	March 30, 2020	MUFG Bank, Ltd.	Amortization rate equivalent to: (1) 20% of the amount drawn payable on the 30 th , 48 th , 54 th and 72 nd month from the drawdown date; (2) 0.50% of the amount drawn payable on the 36 th , 42 nd , 60 th and 66 th month from the drawdown date; and (3) 18% of the amount drawn payable upon maturity	—	—	2,500	—	—	—
								8,470	—
								154,410	122,470

^(*) Amounts are net of unamortized debt discount and/or debt issuance cost.

Compliance with Debt Covenants

PLDT's debt instruments contain restrictive covenants, including covenants that require us to comply with specified financial ratios tests, such as total debt to EBITDA and interest cover ratio, at relevant measurement dates, principally at the end of each quarterly period. We have complied with all of our maintenance financial ratios as required under our loan covenants and other debt instruments.

The principal factors that could negatively affect our ability to comply with these financial ratio covenants and other financial tests are depreciation of the Philippine Peso relative to the U.S. Dollar, poor operating performance of PLDT and its subsidiaries, impairment or similar charges in respect of investments or other long-lived assets that may be recognized by PLDT and its subsidiaries, and increases in our interest expense. Interest expense may increase as a result of various factors including issuance of new debt, the refinancing of lower cost indebtedness by higher cost indebtedness, depreciation of the Philippine Peso relative to the U.S. Dollar, the lowering of PLDT's credit ratings or the credit ratings of the Philippines, increase in reference interest rates, and general market conditions. Of our total consolidated debts, approximately 9% and 13% were denominated in U.S. Dollars as at December 31, 2019 and 2018, respectively. Therefore, the financial ratio and other tests are expected to be negatively affected by any weakening of the Philippine Peso relative to the U.S. Dollar. See Note 28 – Financial Assets and Liabilities – Foreign Currency Exchange Risk.

PLDT's debt instruments contain a number of other negative covenants that, subject to certain exceptions and qualifications, restrict PLDT's ability to take certain actions without lenders' approval, including: (a) making or permitting any material change in the character of its business; (b) selling, leasing, transferring or disposing of all or substantially all of its assets or any significant portion thereof other than in the ordinary course of business; (c) creating any lien or security interest; (d) permitting set-off against amounts owed to PLDT; and (e) merging or consolidating with any other company.

PLDT's debt instruments also contain customary and other default provisions that permit the lender to accelerate amounts due or terminate their commitments to extend additional funds under the debt instruments. These default provisions include: (a) cross-defaults that will be triggered only if the principal amount of the defaulted indebtedness exceeds a threshold amount specified in these debt instruments; (b) failure by PLDT to meet certain financial ratio covenants referred to above; (c) the occurrence of any material adverse change in circumstances that a lender reasonably believes materially impairs PLDT's ability to perform its obligations under its debt instrument with the lender; (d) the revocation, termination or amendment of any of the permits or franchises of PLDT in any manner unacceptable to the lender; (e) the nationalization or sustained discontinuance of all or a substantial portion of PLDT's business; and (f) other typical events of default, including the commencement of bankruptcy, insolvency, liquidation or winding up proceedings by PLDT.

Smart's debt instruments contain certain restrictive covenants that require Smart to comply with specified financial ratios and other financial tests at semi-annual measurement dates. Smart's loan agreements include compliance with financial tests such as Smart's consolidated debt to consolidated EBITDA, debt service coverage ratio and interest coverage ratio. The agreements also contain customary and other default provisions that permit the lender to accelerate amounts due under the loans or terminate their commitments to extend additional funds under the loans. These default provisions include: (a) cross-defaults and cross-accelerations that permit a lender to declare a default if Smart is in default under another loan agreement. These cross-default provisions are triggered upon a payment or other default permitting the acceleration of Smart debt, whether or not the defaulted debt is accelerated; (b) failure by Smart to comply with certain financial ratio covenants; and (c) the occurrence of any material adverse change in circumstances that the lender reasonably believes materially impairs Smart's ability to perform its obligations or impair the guarantors' ability to perform their obligations under its loan agreements.

The loan agreements with banks (foreign and local alike) and other financial institutions provide for certain restrictions and requirements with respect to, among others, maintenance of percentage of ownership of specific shareholders, incurrence of additional long-term indebtedness or guarantees and creation of property encumbrances.

As at December 31, 2019 and 2018, we were in compliance with all of our debt covenants.

Consent Solicitation Exercise of PLDT

On October 11, 2019, PLDT announced its undertaking of a consent solicitation exercise relating to the 5.2250% 7-Year Fixed Rate Bonds due 2021 and 5.2813% 10-Year Fixed Rate Bonds due 2024, to amend PLDT's maximum stand-alone Total Debt to EBITDA Ratio stipulated in the Trust Indenture from 3.0:1 to 4.0:1. The proposed amendment seeks to provide PLDT with greater flexibility to support, if necessary, higher levels of capital expenditures and general corporate requirements. Moreover, it will align the covenant ratio of PLDT's outstanding debt capital market issuances with that of the existing bilateral facilities of both PLDT and Smart.

On October 30, 2019, PLDT announced the early closing of the consent solicitation exercise from its original schedule of November 15, 2019 when the Company received the required consents to effect the proposed amendment. The new debt covenants is effective as at December 31, 2019.

Obligations under Finance Leases

The consolidated future minimum payments for finance leases and the long-term portion of obligations under finance leases (which covers leasehold improvements and various office equipment and vehicles) amounted to nil and Php514 thousand as at December 31, 2019 and 2018, respectively. See *Note 2 – Summary of Significant Accounting Policies*, *Note 3 – Management's Use of Accounting Judgments, Estimates and Assumptions – Leases* and *Note 9 – Property and Equipment*.

Under the terms of certain loan agreements and other debt instruments, PLDT may not create, incur, assume, permit or suffer to exist any mortgage, pledge, lien or other encumbrance or security interest over the whole or any part of its assets or revenues or suffer to exist any obligation as lessee for the rental or hire of real or personal property in connection with any sale and leaseback transaction.

22. Deferred Credits and Other Noncurrent Liabilities

As at December 31, 2019 and 2018, this account consists of:

	2019	2018
	(in million pesos)	
Accrual of capital expenditures under long-term financing	2,118	2,965
Provision for asset retirement obligations	1,767	1,656
Contract liabilities and unearned revenues (Note 5)	604	532
Others	68	131
	4,557	5,284

Accrual of capital expenditures under long-term financing represents expenditures related to the expansion and upgrade of our network facilities which are not due to be settled within one year. Such accruals are settled through refinancing from long-term loans obtained from the banks. See *Note 21 – Interest-bearing Financial Liabilities*.

The following table summarizes the changes to provision for asset retirement obligations for the years ended December 31, 2019 and 2018:

	2019	2018
	(in million pesos)	
Provision for asset retirement obligations at beginning of the year	1,656	1,630
Additional liability	154	161
Accretion expenses	82	47
Settlement of obligations and others	(125)	(182)
Provision for asset retirement obligations at end of the year	1,767	1,656

23. Accounts Payable

As at December 31, 2019 and 2018, this account consists of:

	2019	2018
	(in million pesos)	
Suppliers and contractors (Note 28)	68,051	69,099
Taxes (Note 27)	1,457	1,789
Carriers and other customers (Note 28)	1,387	1,815
Related parties (Notes 25 and 28)	602	684
Others	6,348	1,223
	77,845	74,610

Accounts payable are non-interest-bearing and are normally settled within 180 days.

In 2019, one of our major suppliers entered into Trade Financing Arrangements, or TFA, to sell a portion of its Philippine Peso receivables from the Parent Company amounting to Php1,799 million and from Smart amounting to Php3,200 million. Under the terms of the TFA, the Purchaser will have exclusive ownership of the purchased receivables and all of its rights, title and interest. The amount was reclassified from “Accounts Payable – Suppliers and contractors” to “Accounts Payable – Others” amounted to Php4,999 million for the year ended December 31, 2019.

For terms and conditions pertaining to the payables to related parties, see *Note 25 – Related Party Transactions*.

For detailed discussion on the PLDT Group’s liquidity risk management processes, see *Note 28 – Financial Assets and Liabilities – Liquidity Risk*.

24. Accrued Expenses and Other Current Liabilities

As at December 31, 2019 and 2018, this account consists of:

	2019	2018
	(in million pesos)	
Accrued utilities and related expenses (Notes 25 and 28)	60,966	57,748
Accrued taxes and related expenses (Note 27)	11,380	11,885
Accrued employee benefits and other provisions (Notes 26 and 28)	8,700	7,980
Contract liabilities and unearned revenues (Note 5)	7,879	6,650
Liability from redemption of preferred shares (Notes 20 and 28)	7,851	7,862
Accrued interests and other related costs (Note 29)	1,531	1,347
Others	2,508	2,252
	100,815	95,724

Accrued utilities and related expenses pertain to costs incurred for electricity and water consumption, repairs and maintenance, selling and promotions, professional and other contracted services, rent, insurance and security services. These liabilities are non-interest bearing and are normally settled within a year.

Accrued taxes and related expenses pertain to licenses, permits and other related business taxes, which are normally settled within a year.

Contract liabilities and unearned revenues represent advance payments for leased lines, installation fees, monthly service fees and unused and/or unexpired portion of prepaid loads.

Other accrued expenses and other current liabilities are non-interest-bearing and are normally settled within a year. This pertains to other costs incurred for operations-related expenses pending receipt of invoice and statement of accounts from suppliers.

25. Related Party Transactions

Parties are considered to be related if one party has the ability, directly and indirectly, to control the other party or exercise significant influence over the other party in making financial and operating decisions. Parties are also considered to be related if they are subject to common control. Related parties may be individuals or corporate entities. Transactions with related parties are on an arm’s length basis, similar to transactions with third parties.

Settlement of outstanding balances of related party transactions at year-end are expected to be settled with cash.

The following table provides the summary of outstanding balances as at December 31, 2019 and 2018 transactions that have been entered into with related parties:

	Classifications	Terms	Conditions	2019	2018
(in million pesos)					
<i>Indirect investment in joint ventures through PCEV:</i>					
Meralco	Accounts payable and accrued expenses and other current liabilities (Notes 23 and 24)	Electricity charges – immediately upon receipt of invoice	Unsecured	415	518
	Accrued expenses and other current liabilities (Note 24)	Pole rental – 45 days upon receipt of billing	Unsecured	—	209
Meralco Industrial Engineering Services Corporation, or MIESCOR	Accrued expenses and other current liabilities (Note 24)	30 days upon receipt of invoice	Unsecured	3	3
MPIC	Financial assets at FVOCI – net of current portion (Note 11)	Due on or before December 2020 for 2019 and due on December 2019 for 2018;	Unsecured	162	2,749
	Current portion of financial assets at FVOCI (Note 11)	Due after December 2020 for 2019 and due after December 2019 for 2018	Unsecured	2,757	1,604
<i>Transactions with major stockholders, directors and officers:</i>					
NTT Finance Corporation	Interest-bearing financial liabilities (Note 21)	Non-amortizing, payable upon maturity on March 30, 2023 and March 27, 2024	Unsecured	2,540	2,628
NTT World Engineering Marine Corporation	Accrued expenses and other current liabilities (Note 24)	1st month of each quarter; non-interest-bearing	Unsecured	147	84
NTT Communications	Accounts payable and accrued expenses and other current liabilities (Notes 23 and 24)	30 days upon receipt of invoice; non-interest-bearing	Unsecured	10	20
NTT Worldwide Telecommunications Corporation	Accrued expenses and other current liabilities (Note 24)	30 days upon receipt of invoice; non-interest-bearing	Unsecured	3	3
NTT DOCOMO	Accrued expenses and other current liabilities (Note 24)	30 days upon receipt of invoice; non-interest-bearing	Unsecured	6	12
JGSHI and Subsidiaries	ROU assets (Note 10)	Upon expiration of lease	Unsecured	168	—
	Lease liabilities – net of current portion (Note 10)	Due after December 31, 2020	Unsecured	154	—
	Accounts payable and accrued expenses and other current liabilities (Notes 23 and 24)	Immediately upon receipt of invoice	Unsecured	33	13
	Current portion of lease liabilities (Note 10)	Due on or before December 31, 2020	Unsecured	20	—
Malayan Insurance Co., Inc. or Malayan	Prepayments (Note 19)	Immediately upon receipt of invoice	Unsecured	19	19
	Accounts payable and accrued expenses and other current liabilities (Notes 23 and 24)	Immediately upon receipt of invoice	Unsecured	5	6
Gotuaco del Rosario and Associates, or Gotuaco	Prepayments (Note 19)	Immediately upon receipt of invoice	Unsecured	6	—
	Accounts payable and accrued expenses and other current liabilities (Notes 23 and 24)	Immediately upon receipt of invoice	Unsecured	1	5
<i>Others:</i>					
Signal Cable Corporation, or Signal Cable (formerly Dakila Cable TV Corp.)	Prepayments (Note 19)	Immediately upon receipt of invoice	Unsecured	—	169
Various	ROU assets (Note 10)	Upon expiration/depreciation of lease	Unsecured	232	—
	Trade and other receivables (Note 17)	30 days upon receipt of invoice	Unsecured	2,082	2,094
	Lease liabilities – net of current portion (Note 10)	Due after December 31, 2020	Unsecured	218	—
	Accounts payable (Note 23)	30 days non-interest-bearing	Unsecured	571	684
	Accounts payable (Note 23)	Immediately upon receipt of billing	Unsecured	602	—
	Accrued expenses and other current liabilities (Note 24)	Immediately upon receipt of billing	Unsecured	65	9
	Current portion of lease liabilities (Note 10)	Due on or before December 31, 2020	Unsecured	92	—

The following table provides the summary of transactions that have been entered into with related parties for the years ended December 31, 2019, 2018 and 2017 in relation with the table above.

Classifications		2019	2018	2017
(in million pesos)				
<i>Indirect investment in joint ventures through PCEV:</i>				
Meralco	Repairs and maintenance	2,689	2,771	2,397
	Rent	29	583	298
	Depreciation and amortization	218	—	—
MIESCOR	Repairs and maintenance	—	33	117
	Construction-in-progress	—	33	81
<i>Transactions with major stockholders, directors and officers:</i>				
NTT Finance Corporation	Financing costs – net	103	100	56
NTT World Engineering Marine Corporation	Repairs and maintenance	169	17	47
NTT Communications	Professional and other contracted services	95	95	88
	Rent	—	5	4
NTT Worldwide Telecommunications Corporation	Selling and promotions	5	5	8
NTT DOCOMO	Professional and other contracted services	70	96	94
JGSHI and Subsidiaries	Rent	198	236	118
	Repairs and maintenance	38	111	69
	Communication, training and travel	10	20	2
	Miscellaneous expenses	98	7	—
Malayan	Insurance and security services	295	182	179
Gotuaco	Insurance and security services	165	163	126
Asia Link B.V., or ALBV	Professional and other contracted services	—	34	190
First Pacific Investment Management Limited, or FPIML	Professional and other contracted services	156	135	—
<i>Others:</i>				
TV5	Selling and promotions	33	409	149
Cignal Cable	Cost of services	306	372	514
	Selling and promotions	82	—	—
	Other income – net	166	—	—
Various	Revenues	2,401	2,355	2,059
	Expenses	1,908	1,935	1,223

a. *Agreements between PLDT and certain subsidiaries with Meralco*

In the ordinary course of business, Meralco provides electricity to PLDT and certain subsidiaries' offices within its franchise area. Total electricity costs, which were presented as part of repairs and maintenance in our consolidated income statements, amounted to Php2,689 million, Php2,771 million and Php2,397 million for the years ended December 31, 2019, 2018 and 2017, respectively. Under these agreements, the outstanding obligations, which were presented as part of accounts payable and accrued expenses and other current liabilities in our consolidated statements of financial position, amounted to Php415 million and Php518 million as at December 31, 2019 and 2018, respectively.

PLDT and Smart have Pole Attachment Contracts with Meralco, wherein Meralco leases its pole spaces to accommodate PLDT's and Smart's cable network facilities. Total fees under these contracts, which were presented as part of rent in our consolidated income statements, amounted to Php29 million, Php583 million and Php298 million for the years ended December 31, 2019, 2018 and 2017, respectively. Total fees under these contracts, which were presented as part of depreciation and amortization in our consolidated income statements, amounted to Php218 million for the year ended December 31, 2019 and nil for the years ended December 31, 2018 and 2017. Under these agreements, the outstanding obligations, which were presented as part of accrued expenses and other current liabilities in our consolidated statements of financial position, amounted to Php66 thousand and Php209 million as at December 31, 2019 and 2018, respectively.

b. *Agreements between PLDT and MIESCOR*

PLDT has an existing Outside and Inside Plant Contracted Services Agreement with MIESCOR, a subsidiary of Meralco, which expired on December 31, 2018. Under the agreement, MIESCOR assumes full and overall responsibility for the implementation and completion of any assigned project such as cable and civil works that are required for the provisioning and restoration of lines and recovery of existing plant.

Total fees under this agreement, which were presented as part of repairs and maintenance in our consolidated income statements, amounted to nil, Php96 thousand and Php3 million for the years ended December 31, 2019, 2018 and 2017, respectively. Total amounts capitalized to property and equipment amounted to nil, Php14 million and Php5 million for the years ended December 31, 2019, 2018 and 2017, respectively. Under these agreements, the outstanding obligations, which were presented as part of accrued expenses and other current liabilities in our consolidated statements of financial position, amounted to Php185 thousand each as at December 31, 2019 and 2018.

PLDT also has an existing Customer Line Installation, Repair, Rehabilitation and Maintenance Activities agreement with MIESCOR, which expired on December 31, 2018. Under the agreement, MIESCOR is responsible for the subscriber main station installation, repairs and maintenance of outside and inside plant network facilities in the areas awarded to them.

Total fees under this agreement, which were presented as part of repairs and maintenance in our consolidated income statements, amounted to nil, Php33 million and Php114 million for the years ended December 31, 2019, 2018 and 2017, respectively. Total amounts capitalized to property and equipment amounted to nil, Php19 million and Php76 million for the years ended December 31, 2019, 2018 and 2017, respectively. Under these agreements, the outstanding obligations, which were presented as part of accrued expenses and other current liabilities in our consolidated statements of financial position, amounted to Php3 million each as at December 31, 2019 and 2018.

c. Transactions with Major Stockholders, Directors and Officers

Material transactions to which PLDT or any of its subsidiaries is a party, in which a director, key officer or owner of more than 10% of the outstanding common stock of PLDT, or any member of the immediate family of a director, key officer or owner of more than 10% of the outstanding common stock of PLDT, had a direct or indirect material interest as at December 31, 2019 and 2018, and for the years ended December 31, 2019, 2018 and 2017 are as follows:

1. Term Loan Facility Agreements with NTT Finance Corporation

On March 22, 2016, PLDT signed a US\$25 million term loan facility agreement with NTT Finance Corporation to finance its capital expenditure requirements for network expansion and service improvement and/or refinancing existing indebtedness. The loan is payable upon maturity on March 30, 2023. The loan was fully drawn on March 30, 2016. Total interest under this agreement, which were presented as part of financing costs – net in our consolidated income statements, amounted to Php51.5 million, Php50 million and Php28 million for the years ended December 31, 2019, 2018 and 2017, respectively. The amounts of US\$25 million, or Php1,270 million, and US\$25 million, or Php1,314 million, remained outstanding as at December 31, 2019 and 2018, respectively.

Another US\$25 million term loan facility was signed with NTT Finance Corporation on January 31, 2017 to finance its capital expenditure requirements for network expansion and service improvement and/or refinancing existing indebtedness. The loan is payable upon maturity on March 27, 2024. The loan was fully drawn on March 30, 2017. Total interest under this agreement, which were presented as part of financing costs – net in our consolidated income statements, amounted to Php51.5 million, Php50 million and Php28 million for the years ended December 31, 2019, 2018 and 2017, respectively. The amount of US\$25 million, or Php1,270 million, and US\$25 million, or Php1,314 million, remained outstanding as at December 31, 2019 and 2018, respectively.

2. *Various Agreements with NTT Communications and/or its Affiliates*

PLDT is a party to the following agreements with NTT Communications and/or its affiliates:

- *Service Agreement.* On February 1, 2008, PLDT entered into an agreement with NTT World Engineering Marine Corporation wherein the latter provides offshore submarine cable repair and other allied services for the maintenance of PLDT's domestic fiber optic network submerged plant. The fees under this agreement, which were presented as part of repairs and maintenance in our consolidated income statements, amounted to Php169 million, Php17 million and Php47 million for the years ended December 31, 2019, 2018 and 2017, respectively. Under this agreement, the outstanding obligations of PLDT, which were presented as part of accrued expenses and other current liabilities in our consolidated statements of financial position, amounted to Php147 million and Php84 million as at December 31, 2019 and 2018, respectively;
- *Advisory Services Agreement.* On March 24, 2000, PLDT entered into an agreement with NTT Communications, as amended on March 31, 2003, March 31, 2005 and June 16, 2006, under which NTT Communications provides PLDT with technical, marketing and other consulting services for various business areas of PLDT starting April 1, 2000. The fees under this agreement, which were presented as part of professional and other contracted services in our consolidated income statements, amounted to Php95 million for each of the years ended December 31, 2019 and 2018, while Php88 million for the year ended December 31, 2017. Under this agreement, the outstanding obligations of PLDT, which were presented as part of accounts payable and accrued expenses and other current liabilities in our consolidated statements of financial position, amounted to Php8 million and Php16 million as at December 31, 2019 and 2018, respectively;
- *Conventional International Telecommunications Services Agreement.* On March 24, 2000, PLDT entered into an agreement with NTT Communications under which PLDT and NTT Communications agreed to cooperative arrangements for conventional international telecommunications services to enhance their respective international businesses. The fees under this agreement, which were presented as part of rent in our consolidated income statements, amounted to nil, Php5 million and Php4 million for the years ended December 31, 2019, 2018 and 2017, respectively. Under this agreement, the outstanding obligations of PLDT, which were presented as part of accounts payable and accrued expenses and other current liabilities in our consolidated statements of financial position, amounted to Php2 million and Php4 million as at December 31, 2019 and 2018, respectively; and
- *Arcstar Licensing Agreement and Arcstar Service Provider Agreement.* On March 24, 2000, PLDT entered into an agreement with NTT Worldwide Telecommunications Corporation under which PLDT markets, and manages data and other services under NTT Communications' "Arcstar" brand to its corporate customers in the Philippines. PLDT also entered into a Trade Name and Trademark Agreement with NTT Communications under which PLDT has been given the right to use the trade name "Arcstar" and its related trademark, logo and symbols, solely for the purpose of PLDT's marketing, promotional and sales activities for the Arcstar services within the Philippines. The fees under this agreement, which were presented as part of selling and promotions in our consolidated income statements, amounted to Php5 million for each of the years ended December 31, 2019 and 2018, while Php8 million for the year ended December 31, 2017. Under this agreement, the outstanding obligations of PLDT, which were presented as part of accrued expenses and other current liabilities in our consolidated statements of financial position, amounted to Php3 million each as at December 31, 2019 and 2018.

3. *Advisory Services Agreement between NTT DOCOMO and PLDT*

On June 5, 2006, in accordance with the Cooperation Agreement dated January 31, 2006, an Advisory Services Agreement was entered into by NTT DOCOMO and PLDT. Pursuant to the Advisory Services Agreement, NTT DOCOMO will provide the services of certain key personnel in connection with certain aspects of the business of PLDT and Smart. Also, this agreement governs the terms and conditions of the appointments of such key personnel and the corresponding fees related thereto. Total fees under this agreement, which were presented as part of professional and other contracted services in our consolidated income statements, amounted to Php70 million, Php96 million and Php94 million for the years ended December 31, 2019, 2018 and 2017, respectively. Under this agreement, the outstanding obligations of PLDT, which were presented as part of accrued expenses and other current liabilities in our consolidated statements of financial position, amounted to Php6 million and Php12 million as at December 31, 2019 and 2018, respectively.

4. *Transactions with JGSHI and Subsidiaries*

PLDT and certain of its subsidiaries have existing agreements with Universal Robina Corporation and Robinsons Land Corporation for office and business office rental. Total fees under these contracts, which were presented as part of rent in our consolidated income statements, amounted to Php198 million, Php236 million and Php118 million for the years ended December 31, 2019, 2018 and 2017, respectively. Under these agreements, the outstanding obligations, which were presented as part of ROU assets in our consolidated statements of financial position amounted to Php168 million and nil as at December 31, 2019, respectively, and lease liabilities in our consolidated statements of financial position, amounted to Php174 million and nil as at December 31, 2019 and 2018, respectively. Under these agreements, the outstanding obligations, which were presented as part of accounts payable and accrued expenses and other current liabilities in our consolidated statements of financial position, amounted to Php31 million and Php10 million as at December 31, 2019 and 2018, respectively.

There were also other transactions such as communication, training and travel, repairs and maintenance and miscellaneous expenses in our consolidated income statements, amounting to Php146 million, Php138 million and Php71 million for the years ended December 31, 2019, 2018 and 2017, respectively. Under these agreements, the outstanding obligations for these transactions, which were presented as part of accrued expenses and other current liabilities in our consolidated statements of financial position, amounted to Php2 million and Php3 million as at December 31, 2019 and 2018, respectively.

5. *Transactions with Malayan*

PLDT and certain of its subsidiaries have insurance policies with Malayan covering directors, officers, liability to employees and material damages for buildings, building improvements, equipment and motor vehicles. The premiums are directly paid to Malayan. Total fees under these contracts, which were presented as part of insurance and security services in our consolidated income statements, amounted to Php295 million, Php182 million and Php179 million for the years ended December 31, 2019, 2018 and 2017, respectively. Under this agreement, outstanding prepayments, which were presented as part of prepayments in our consolidated statements of financial position, amounted to Php19 million each as at December 31, 2019 and 2018, while the outstanding obligations, which were presented as part of accounts payable and accrued expenses and other current liabilities in our consolidated statements of financial position, amounted to Php5 million and Php6 million as at December 31, 2019 and 2018, respectively.

6. *Transactions with Gotuaco*

Gotuaco acts as the broker for certain insurance companies to cover certain insurable properties of the PLDT Group. Insurance premiums are remitted to Gotuaco and the broker's fees are settled between Gotuaco and the insurance companies. Total fees under these contracts, which were presented as part of insurance and security services in our consolidated income statement, amounted to Php165 million, Php163 million and Php126 million for the years ended December 31, 2019, 2018 and 2017, respectively. Under this agreement, the outstanding prepayments, which were presented as part of prepayments in our consolidated statements of financial position, amounted to Php6 million and nil as at December 31, 2019 and 2018, respectively, while the outstanding obligations, which were presented as part of accounts payable and accrued expenses and other current liabilities in our consolidated statements of financial position, amounted to Php1 million and Php5 million as at December 31, 2019 and 2018, respectively.

7. *Agreement between Smart and ALBV*

Smart had a Technical Assistance Agreement with ALBV, a subsidiary of the First Pacific Group and its Philippine affiliates. ALBV provides technical support services and assistance in the operations and maintenance of Smart's cellular business which provides for payment of technical service fees equivalent to a rate of 0.5% of the consolidated net revenues of Smart. Effective February 1, 2014, the parties agreed to reduce the technical service fee rate from 0.5% to 0.4% of the consolidated net revenues of Smart. The agreement expired on February 23, 2018. Total service fees charged to operations under this agreement, which were presented as part of professional and other contracted services in our consolidated income statements, amounted to nil, Php34 million and Php190 million for the years ended December 31, 2019, 2018 and 2017, respectively. There were no outstanding obligations under this agreement as at December 31, 2019 and 2018.

8. *Agreement between Smart and FPIML*

On March 1, 2018, Smart entered into an Advisory Services Agreement with FPIML, a subsidiary of the First Pacific Group and its Philippine affiliates. The agreement shall be effective for a period of one-year subject to a 12-month automatic renewal unless either party notifies the other party of its intent not to renew the agreement. FPIML provides advisory and related services in connection with the operation of Smart's business of providing mobile communications services, high-speed internet connectivity, and access to digital services and content. The agreement provides that Smart shall pay monthly service fee of \$250 thousand and any additional fee shall be mutually agreed upon by both parties on a monthly basis. Total professional fees under this agreement, which were presented as part of professional and other contracted services in our consolidated income statements, amounted to Php156 million and Php135 million for the years ended December 31, 2019 and 2018, respectively. There were no outstanding payable under this agreement as at December 31, 2019 and 2018.

9. *Cooperation Agreement with First Pacific and certain affiliates, or the FP Parties, NTT Communications and NTT DOCOMO*

In connection with the transfer by NTT Communications of approximately 12.6 million shares of PLDT's common stock to NTT DOCOMO pursuant to the SPA dated January 31, 2006 between NTT Communications and NTT DOCOMO, the FP Parties, NTT Communications and NTT DOCOMO entered into a Cooperation Agreement, dated January 31, 2006. Under the Cooperation Agreement, the relevant parties extended certain rights of NTT Communications under the Stock Purchase and Strategic Investment Agreement dated September 28, 1999, as amended, and the Shareholders Agreement dated March 24, 2000, to NTT DOCOMO, including:

- certain contractual veto rights over a number of major decisions or transactions; and
- rights relating to the representation on the Board of Directors of PLDT and Smart, respectively, and any committees thereof.

Moreover, key provisions of the Cooperation Agreement pertain to, among other things:

- *Restriction on Ownership of Shares of PLDT by NTT Communications and NTT DOCOMO.* Each of NTT Communications and NTT DOCOMO has agreed not to beneficially own, directly or indirectly, in the aggregate with their respective subsidiaries and affiliates, more than 21% of the issued and outstanding shares of PLDT's common stock. If such event does occur, the FP Parties, as long as they own in the aggregate not less than 21% of the issued and outstanding shares of PLDT's common stock, have the right to terminate their respective rights and obligations under the Cooperation Agreement, the Shareholders Agreement and the Stock Purchase and Strategic Investment Agreement.
- *Limitation on Competition.* NTT Communications, NTT DOCOMO and their respective subsidiaries are prohibited from investing in excess of certain thresholds in businesses competing with PLDT in respect of customers principally located in the Philippines and from using their assets in the Philippines in such businesses. Moreover, if PLDT, Smart or any of Smart's subsidiaries intend to enter into any contractual arrangement relating to certain competing businesses, PLDT is required to provide, or to use reasonable efforts to procure that Smart or any of Smart's subsidiaries provide, NTT Communications and NTT DOCOMO with the same opportunity to enter into such agreement with PLDT or Smart or any of Smart's subsidiaries, as the case may be.
- *Business Cooperation.* PLDT and NTT DOCOMO agreed in principle to collaborate with each other on the business development, roll-out and use of a Wireless-Code Division Multiple Access mobile communication network. In addition, PLDT agreed, to the extent of the power conferred by its direct or indirect shareholding in Smart, to procure that Smart will: (i) become a member of a strategic alliance group for international roaming and corporate sales and services; and (ii) enter into a business relationship concerning preferred roaming and inter-operator tariff discounts with NTT DOCOMO.
- *Additional Rights of NTT DOCOMO.* Pursuant to amendments effected by the Cooperation Agreement to the Stock Purchase and Strategic Investment Agreement and the Shareholders Agreement, upon NTT Communications and NTT DOCOMO and their respective subsidiaries owning in the aggregate 20% or more of PLDT's shares of common stock and for as long as they continue to own in the aggregate at least 17.5% of PLDT's shares of common stock then outstanding, NTT DOCOMO has additional rights under the Stock Purchase and Strategic Investment Agreement and Shareholders Agreement, including that:
 1. NTT DOCOMO is entitled to nominate one additional NTT DOCOMO nominee to the Board of Directors of each PLDT and Smart;
 2. PLDT must consult NTT DOCOMO no later than 30 days prior to the first submission to the board of PLDT or certain of its committees of any proposal of investment in an entity that would primarily engage in a business that would be in direct competition or substantially the same business opportunities, customer base, products or services with business carried on by NTT DOCOMO, or which NTT DOCOMO has announced publicly an intention to carry on;
 3. PLDT must procure that Smart does not cease to carry on its business, dispose of all of its assets, issue common shares, merge or consolidate, or effect winding up or liquidation without PLDT first consulting with NTT DOCOMO no later than 30 days prior to the first submission to the board of PLDT or Smart, or certain of its committees; and
 4. PLDT must first consult with NTT DOCOMO no later than 30 days prior to the first submission to the board of PLDT or certain of its committees for the approval of any transfer by any member of the PLDT Group of Smart common capital stock to any person who is not a member of the PLDT Group.

NTT Communications and NTT DOCOMO together beneficially owned approximately 20% of PLDT's outstanding common stock as at December 31, 2019 and 2018.

- *Change in Control.* Each of NTT Communications, NTT DOCOMO and the FP Parties agreed that to the extent permissible under applicable laws and regulations of the Philippines and other jurisdictions, subject to certain conditions, to cast its vote as a shareholder in support of any resolution proposed by the Board of Directors of PLDT for the purpose of safeguarding PLDT from any Hostile Transferee. A "Hostile Transferee" is defined under the Cooperation Agreement to mean any person (other than NTT Communications, NTT DOCOMO, First Pacific or any of their respective affiliates) determined to be so by the PLDT Board of Directors and includes, without limitation, a person who announces an intention to acquire, seeking to acquire or acquires 30% or more of PLDT common shares then issued and outstanding from time to time or having (by itself or together with itself) acquired 30% or more of the PLDT common shares who announces an intention to acquire, seeking to acquire or acquires a further 2% of such PLDT common shares: (a) at a price per share which is less than the fair market value as determined by the Board of Directors of PLDT, as advised by a professional financial advisor; (b) which is subject to conditions which are subjective or which could not be reasonably satisfied; (c) without making an offer for all PLDT common shares not held by it and/or its affiliates and/or persons who, pursuant to an agreement or understanding (whether formal or informal), actively cooperate to obtain or consolidate control over PLDT; (d) whose offer for the PLDT common shares is unlikely to succeed; or (e) whose intention is otherwise not *bona fide*; provided that, no person will be deemed a Hostile Transferee unless prior to making such determination, the Board of Directors of PLDT has used reasonable efforts to discuss with NTT Communications and NTT DOCOMO in good faith whether such person should be considered a Hostile Transferee.
- *Termination.* If NTT Communications, NTT DOCOMO or their respective subsidiaries cease to own, in the aggregate, full legal and beneficial title to at least 10% of the shares of PLDT's common stock then issued and outstanding, their respective rights and obligations under the Cooperation Agreement and the Shareholders Agreement will terminate and the Strategic Arrangements (as defined in the Stock Purchase and Strategic Investment Agreement) will terminate. If the FP Parties and their respective subsidiaries cease to have, directly or indirectly, effective voting power in respect of shares of PLDT's common stock representing at least 18.5% of the shares of PLDT's common stock then issued and outstanding, their respective rights and obligations under the Cooperation Agreement, the Stock Purchase and Strategic Investment Agreement, and the Shareholders Agreement will terminate.

d. *Others*

1. *Agreement of PLDT and Smart with TV5*

In 2010, PLDT and Smart entered into advertising placement agreements with TV5, a subsidiary of MediaQuest, which is a wholly-owned investee company of PLDT Beneficial Trust Fund for the airing and telecast of advertisements and commercials of PLDT and Smart on TV5's television network for a period of five years. The costs of telecast of each advertisement shall be applied and deducted from the placement amount only after the relevant advertisement or commercial is actually aired on TV5's television network. In June 2014, Smart and TV5 agreed to amend the liquidation schedule under the original advertising placement agreement by extending the term of expiry from 2015 to 2018. Total selling and promotions under the advertising placement agreements amounted to Php33 million, Php409 million and Php149 million for the years ended December 31, 2019, 2018 and 2017, respectively. There were no prepayments under this advertising placement agreements as at December 31, 2019 and 2018.

2. *Agreement of PLDT, Smart and DMPI with Cignal Cable*

In May 2015, PLDT, Smart and DMPI entered into a four-year agreement with Cignal Cable commencing with the launch of the OTT video-on-demand service, or *iflix* service, in the Philippines on June 18, 2015. *iflix* service is provided by iFlix Sdn Bhd and Cignal Cable is the authorized reseller of the *iflix* service in the Philippines. Under the agreement, PLDT, Smart and DMPI were appointed by Cignal Cable to act as its internet service providers with an authority to resell and distribute the *iflix* service to their respective subscribers on a monthly and annual basis. The content cost recognized for the years ended December 31, 2019, 2018 and 2017 amounted to Php224 million, Php372 million and Php514 million, respectively. Under this agreement, outstanding prepayments, which were presented as part of prepayments in our consolidated statements of financial position, amounted to nil and Php169 million as at December 31, 2019 and 2018, respectively. There were no outstanding obligations under this agreement as at December 31, 2019 and 2018.

PLDT and Smart entered into a new two-year agreement with Cignal Cable to resell and distribute the *iflix* service to their respective subscribers effective June 18, 2019. The agreement stipulates that PLDT and Smart will each pay a minimum guarantee of US\$1,500 thousand annually, which is committed for the Advertising Spend Guarantee. *Iflix* shall pay PLDT and Smart 30% each of the monthly marketing costs subject to a monthly cap of US\$500 thousand each. The cost of services, selling and promotions, and other income – net recognized in our consolidated income statements under this agreement amounted to Php82 million, Php82 million and Php166 million, respectively, for the year ended December 31, 2019.

3. *Telecommunications services provided by PLDT and certain of its subsidiaries and other transactions with various related parties*

PLDT and certain of its subsidiaries provide telephone, data communication and other services to various related parties. The revenues under these services amounted to Php2,401 million, Php2,355 million and Php2,059 million for the years ended December 31, 2019, 2018 and 2017, respectively. The expenses under these services amounted to Php1,908 million, Php1,935 million and Php1,223 million for the years ended December 31, 2019, 2018 and 2017, respectively.

The outstanding receivables of PLDT and certain of its subsidiaries, which were presented as part of ROU assets in our consolidated statement of financial position amounted to Php232 million and nil as at December 31, 2019 and 2018, respectively, and trade and other receivables in our consolidated statements of financial position amounted to Php2,082 million and Php2,094 million as at December 31, 2019 and 2018, respectively. Under these agreements, the outstanding obligations, which were presented as part of lease liabilities amounted to Php310 million and nil as at December 31, 2019 and 2018, respectively, accounts payable in our consolidated statements of financial position amounted to Php1,173 million and Php684 million as at December 31, 2019 and 2018, respectively, and accrued expenses and other current liabilities amounted to Php65 million and Php9 million as at December 31, 2019 and 2018, respectively.

See Note 11 – Investments in Associates and Joint Ventures – Investment of ePLDT in MediaQuest PDRs and Sale of PCEV's Receivables from MPIC for other related party transactions.

e. *Material Related Party Transitions, or MRPT, Policy*

On September 24, 2019, the Board of Directors approved and adopted the MRPT Policy in compliance with the Philippine SEC Memorandum Circular No. 10, Series of 2019, or the Rules on MRPT for Publicly-Listed Companies.

This MRPT Policy applies to the PLDT Group and covers related party transactions that meet the Materiality Threshold of 10% of PLDT's total consolidated assets. It defines the processes, controls and safeguards for the proper handling, including review, approval and disclosure, of such related party transactions in accordance with applicable laws and regulations.

Related party transactions involving an amount below the Materiality Threshold shall be covered by our Guidelines on the Proper Handling of Related Party Transactions.

Compensation of Key Officers of the PLDT Group

The compensation of key officers of the PLDT Group by benefit type for the years ended December 31, 2019, 2018 and 2017 are as follows:

	2019	2018	2017
		(in million pesos)	
Short-term employee benefits	311	401	325
Share-based payments (Note 26)	138	83	—
Post-employment benefits (Note 26)	58	30	27
Total compensation paid to key officers of the PLDT Group	507	514	352

The amounts disclosed in the table above are the amounts recognized as expenses during the period related to key management personnel.

Effective January 2014, each of the directors, including the members of the advisory board of PLDT, was entitled to a director's fee in the amount of Php250 thousand for each board meeting attended. Each of the members or advisors of the audit, executive compensation, governance and nomination, and technology strategy committees was entitled to a fee in the amount of Php125 thousand for each committee meeting attended.

Total fees paid for board meetings and board committee meetings amounted to Php68 million, Php63 million and Php72 million for the years ended December 31, 2019, 2018 and 2017, respectively.

Except for the fees mentioned above, the directors are not compensated, directly or indirectly, for their services as such.

There are no agreements between PLDT Group and any of its key management personnel providing for benefits upon termination of employment, except for such benefits to which they may be entitled under PLDT Group's retirement and incentive plans.

26. Pension and Other Employee Benefits

Pension

Defined Benefit Pension Plans

PLDT has defined benefit pension plans, operating under the legal name "The Board of Trustees for the account of the Beneficial Trust Fund created pursuant to the Benefit Plan of PLDT Co." and covering all of our permanent and regular employees. Certain subsidiaries of PLDT have not yet drawn up a specific retirement plan for its permanent or regular employees. For the purpose of complying with Revised PAS 19, pension benefit expense has been actuarially computed based on defined benefit plan.

PLDT's actuarial valuation is performed every year-end. Based on the latest actuarial valuation, the actual present value of accrued (prepaid) benefit costs, net periodic benefit costs and average assumptions used in developing the valuation as at and for the years ended December 31, 2019, 2018 and 2017:

	2019	2018	2017
	(in million pesos)		
Changes in the present value of defined benefit obligations:			
Present value of defined benefit obligations at beginning of the year	20,683	21,503	23,142
Actuarial losses (gains) on obligations – economic assumptions	3,829	(2,611)	(1,277)
Interest costs on benefit obligation	1,338	1,227	1,180
Service costs	1,043	1,063	1,158
Actuarial losses on obligations – experience	570	419	423
Actuarial losses on obligations – demographic assumptions	4	—	—
Actual benefits paid/settlements	(4,558)	(887)	(2,723)
Curtailments and others (Note 5)	(271)	(31)	(400)
Present value of defined benefit obligations at end of the year	22,638	20,683	21,503
Changes in fair value of plan assets:			
Fair value of plan assets at beginning of the year	13,539	12,534	11,960
Actual contributions	7,598	5,110	5,122
Interest income on plan assets	1,360	770	641
Return on plan assets (excluding amount included in net interest)	(4,215)	(3,988)	(2,466)
Actual benefits paid/settlements	(4,558)	(887)	(2,723)
Fair value of plan assets at end of the year	13,724	13,539	12,534
Unfunded status – net	(8,914)	(7,144)	(8,969)
Accrued benefit costs	8,985	7,159	8,984
Prepaid benefit costs (Note 19)	71	15	15
Components of net periodic benefit costs:			
Service costs	1,043	1,063	1,158
Interest costs – net	(22)	457	539
Curtailment/settlement losses (gains) and other adjustments	(181)	21	(341)
Net periodic benefit costs (Note 5)	840	1,541	1,356

Actual net losses on plan assets amounted to Php2,855 million, Php3,218 million and Php1,825 million for the years ended December 31, 2019, 2018 and 2017, respectively.

Based on the latest actuarial valuation, our expected contribution to the defined benefit plan in 2020 will amount to Php1,589 million.

The following table sets forth the expected future settlements by the Plan of maturing defined benefit obligation as at December 31, 2019:

	(in million pesos)
2020	644
2021	362
2022	377
2023	620
2024	1,011
2025 to 2065	128,008

The average duration of the defined benefit obligation at the end of the reporting period is 8 to 19 years.

The weighted average assumptions used to determine pension benefits for the years ended December 31, 2019, 2018 and 2017 are as follows:

	2019	2018	2017
Rate of increase in compensation	6.0%	6.0%	6.0%
Discount rate	4.8%	7.3%	5.8%

In 2019, we have changed the source of the mortality rates from the 1994 Group Annuity Mortality Table developed by the U.S. Society of Actuaries to the 2017 Philippine Intercompany Mortality Table developed by the Actuarial Society of the Philippines Life Insurance Committee. Both sources provide separate rates for males and females. The disability rates were based on the 1952 Disability Study of the U.S. Society of Actuaries for Period 2, Benefit 5 adjusted to suit local experience.

The sensitivity analysis below has been determined based on reasonably possible changes of each significant assumption on the defined benefit obligation as at December 31, 2019, assuming if all other assumptions were held constant:

	Increase (Decrease)	
	(in million pesos)	
Discount rate	1%	(2,216)
	(1%)	2,809
Future salary increases	1%	2,747
	(1%)	(2,216)

PLDT's Retirement Plan

The Board of Trustees, which manages the beneficial trust fund, is composed of: (i) a member of the Board of Directors of PLDT, who is not a beneficiary of the Plan; (ii) a member of the Board of Directors or a senior officer of PLDT, who is a beneficiary of the Plan; (iii) a senior member of the executive staff of PLDT; and (iv) two persons who are not executives nor employees of PLDT.

Benefits are payable in the event of termination of employment due to: (i) compulsory, optional, or deferred retirement; (ii) death while in active service; (iii) physical disability; (iv) voluntary resignation; or (v) involuntary separation from service. For a plan member with less than 15 years of credited services, retirement benefit is equal to 100% of final compensation for every year of service. For those with at least 15 years of service, retirement benefit is equal to 125% of final compensation for every year of service, with such percentage to be increased by an additional 5% for each completed year of service in excess of 15 years, but not to exceed a maximum of 200%. In case of voluntary resignation after attainment of age 40 and completion of at least 15 years of credited service, benefit is equal to a percentage of his vested retirement benefit, in accordance with percentages prescribed in the retirement plan.

The Board of Trustees of the beneficial trust fund uses an investment approach with the objective of maximizing the long-term expected return of plan assets.

The majority of the Plan's investment portfolio consists of listed and unlisted equity securities while the remaining portion consists of passive investments like temporary cash investments and fixed income investments.

The plan assets are primarily exposed to financial risks such as liquidity risk and price risk.

Liquidity risk pertains to the plan's ability to meet its obligation to the employees upon retirement. To effectively manage liquidity risk, the Board of Trustees invests at least the equivalent amount of actuarially computed expected compulsory retirement benefit payments for the year to liquid/semi-liquid assets such as treasury notes, treasury bills, savings and time deposits with commercial banks.

Price risk pertains mainly to fluctuations in market prices of equity securities listed in the PSE. In order to effectively manage price risk, the Board of Trustees continuously assesses these risks by closely monitoring the market value of the securities and implementing prudent investment strategies.

The following table sets forth the fair values, which are equal to the carrying values, of PLDT's plan assets recognized as at December 31, 2019 and 2018:

	2019	2018
	(in million pesos)	
Noncurrent Financial Assets		
Investments in:		
Unquoted equity investments	10,815	10,707
Shares of stock	2,077	2,066
Corporate bonds	145	133
Government securities	22	31
Mutual funds	9	4
Total noncurrent financial assets	13,068	12,941
Current Financial Assets		
Cash and cash equivalents	441	499
Receivables	8	8
Total current financial assets	449	507
Total PLDT's Plan Assets	13,517	13,448
Subsidiaries Plan Assets	207	91
Total Plan Assets of Defined Benefit Pension Plans	13,724	13,539

Investment in shares of stocks is valued using the latest bid price at the reporting date. Investments in corporate bonds, mutual funds and government securities are valued using the market values at reporting date.

Unquoted Equity Investments

As at December 31, 2019 and 2018, this account consists of:

	2019	2018	2019	2018
	% of Ownership		(in million pesos)	
MediaQuest	100%	100%	10,050	10,022
Tahanan Mutual Building and Loan Association, Inc., or TMBLA, (net of subscriptions payable of Php32 million)	100%	100%	544	474
BTFHI	100%	100%	221	211
Superior Multi Parañaque Homes, Inc., or SMPHI	—	—	—	—
Bancholders, Inc., or Bancholders	—	—	—	—
			10,815	10,707

Investments in MediaQuest

MediaQuest was registered with the Philippine SEC on June 29, 1999 primarily to purchase, subscribe for or otherwise acquire and own, hold, use, manage, sell, assign, transfer, mortgage, pledge, exchange, or otherwise dispose of real and personal property or every kind and description, and to pay thereof in whole or in part, in cash or by exchanging, stocks, bonds and other evidences of indebtedness or securities of this any other corporation. Its investments include common shares of stocks of various communication, broadcasting and media entities.

Investments in MediaQuest are carried at fair value. The VIU calculations were derived from cash flow projections over a period of three to five years based on the 2019 financial budgets approved by the MediaQuest's Board of Directors and calculated terminal value. Other key assumptions used in the cash flow projections include revenue growth rate, direct costs and capital expenditures. The post-tax discount rates applied to cash flow projections range from 11.3% to 11.9%. Cash flows beyond the five-year period are determined using 0% to 4.1% growth rates.

On May 8, 2012, the Board of Trustees of the PLDT Beneficial Trust Fund approved the issuance by MediaQuest of PDRs amounting to Php6 billion. The underlying shares of these PDRs are the shares of stocks of Cignal TV held by MediaQuest through Satventures (Cignal TV PDRs). On the same date, MediaQuest Board of Directors approved the investment in Cignal TV PDRs by ePLDT, which gave ePLDT a 40% economic interest in Cignal TV. In June 2012, MediaQuest received a deposit for future PDRs subscription of Php4 billion from ePLDT. Additional deposits of Php1 billion each were received on July 6, 2012 and August 9, 2012.

On January 25, 2013, the Board of Trustees of the PLDT Beneficial Trust Fund and the MediaQuest Board of Directors approved the issuance of additional MediaQuest PDRs amounting to Php3.6 billion. The underlying shares of these additional PDRs are the shares of Satventures held by MediaQuest (Satventures PDRs), the holder of which will have a 40% economic interest in Satventures. Satventures is a wholly-owned subsidiary of MediaQuest and the investment vehicle for Cignal TV. From March to August 2013, MediaQuest received from ePLDT an amount aggregating to Php3.6 billion representing deposits for future PDRs subscription. The Satventures PDRs and Cignal TV PDRs were subsequently issued on September 27, 2013, providing ePLDT an effective 64% economic interest in Cignal TV.

Also, on January 25, 2013, the Board of Trustees of the PLDT Beneficial Trust Fund and the MediaQuest Board of Directors approved the issuance of additional MediaQuest PDRs amounting to Php1.95 billion. The underlying shares of these additional PDRs are the shares of stocks of Hastings held by MediaQuest (Hastings PDRs). Hastings is a wholly-owned subsidiary of MediaQuest, which holds all the print-related investments of MediaQuest, including equity interests in the three leading newspapers: The Philippine Star, Philippine Daily Inquirer, and Business World. From June 2013 to October 2013, MediaQuest received from ePLDT an amount aggregating to Php1.95 billion representing deposits for future PDRs subscription.

On February 19, 2014, ePLDT's Board of Directors approved an additional Php500 million investment in Hastings PDRs. On March 11, 2014, MediaQuest received from ePLDT an amount aggregating to Php300 million representing deposits for future PDRs subscription. As at December 31, 2014, total deposit for PDRs subscription amounted to Php2,250 million.

On May 21, 2015, ePLDT's Board of Directors approved an additional Php800 million investment in Hastings PDRs and settlement of the Php200 million balance of the Php500 million Hastings PDR investment in 2014. Subsequently, on May 30, 2015, the Board of Trustees of the PLDT Beneficial Trust Fund and the Board of Directors of MediaQuest approved the issuance of Php3,250 million Hastings PDRs. This provided ePLDT with 70% economic interest in Hastings. In February 2018, ePLDT entered into a Deed of Assignment with the Board of Trustees of the PLDT Beneficial Trust Fund transferring the Hastings PDRs for Php1,664 million. See *Note 11 – Investments in Associates and Joint Ventures – Investment of ePLDT in MediaQuest PDRs*.

In 2016 and 2017, the Board of Trustees of the PLDT Beneficial Trust Fund approved additional investment in MediaQuest amounting to Php5,500 million and Php2,500 million, respectively, to fund MediaQuest's investment requirements. The full amount was fully drawn by MediaQuest during 2016 and 2017.

In 2018, the Board of Trustees of the PLDT Beneficial Trust Fund approved the additional investment in MediaQuest amounting to Php2,700 million to fund MediaQuest's investment requirements. The full amount was fully drawn by MediaQuest during 2018. Loss on changes in fair value of the investments for the year ended December 31, 2018 amounting to Php3,038 million was recognized in the statements of changes in net assets available for plan benefits under "Net fair value gain (loss) on investments, which is part of return on plan assets."

In 2019, the Board of Trustees of the PLDT Beneficial Trust Fund approved the additional investment in MediaQuest amounting to Php3,100 million to fund MediaQuest's investment requirements. As at December 31, 2019, MediaQuest has fully drawn the total amount of Php3,100 million. Loss on changes in fair value of the investment for the year ended December 31, 2019 amounting to Php3,072 million was recognized in the statements of changes in net assets available for plan benefits under "Net fair value gain (loss) on investments, which is part of return on plan assets."

Investment in TMBLA

TMBLA was incorporated for the primary purpose of accumulating the savings of its stockholders and lending funds to them for housing programs. The beneficial trust fund has a direct subscription in shares of stocks of TMBLA in the amount of Php112 million. The related unpaid subscription of Php32 million is included in unlisted equity investments. The cumulative change in the fair market values of this investment amounted to Php464 million and Php394 million as at December 31, 2019 and 2018, respectively.

Investment in BTFHI

BTFHI was incorporated for the primary purpose of acquiring voting preferred shares in PLDT and while the owner, holder of possessor thereof, to exercise all the rights, powers, and privileges of ownership or any other interest therein.

On October 26, 2012, BTFHI subscribed to a total of 150 million shares of Voting Preferred Stock of PLDT at a subscription price of Php1.00 per share for a total subscription price of Php150 million. Total cash dividend income amounted to Php10 million for each of the years ended December 31, 2019, 2018 and 2017. Dividend receivables amounted to Php2 million each as at December 31, 2019 and 2018.

Investment in SMPHI

SMPHI was incorporated primarily to engage in the real estate business. As at December 31, 2017, its assets consist mainly of investment in land. SMPHI received short-term, non-interest-bearing advances from the beneficial trust fund mainly to finance expenses to maintain its investment property. On May 25, 2018, the shares of stocks of SMPHI was sold to a third party for Php142 million.

Investment in Bancholders

Bancholders was incorporated primarily to purchase, own, invest in or acquire shares of stock, bonds, bills, warrants and other negotiable instruments, securities or evidences of indebtedness of any other corporation and to own, hold and dispose the same, without engaging in the business of or acting as an investment company or as securities broker or dealer. The cumulative change in the fair market value of this investment amounted to losses of Php93 million as at December 31, 2017. On April 21, 2017, the Board of Directors of Bancholders approved the amendment of its Articles of Incorporation, shortening its corporate term, to end on June 30, 2018. This amendment was subsequently approved by the Philippine SEC on July 11, 2017. As at December 31, 2018, the investment account has been closed to receivables pending the completion of Bancholders's liquidation procedure.

Shares of Stocks

As at December 31, 2019 and 2018, this account consists of:

	2019	2018
	(in million pesos)	
Common shares		
PSE	1,161	1,185
PLDT	26	30
Others	530	491
Preferred shares	360	360
	2,077	2,066

Dividends earned on PLDT common shares amounted to Php2 million for each of the years ended December 31, 2019, 2018 and 2017.

Preferred shares represent 300 million unlisted preferred shares of PLDT at Php10 par value, net of subscription payable of Php2,640 million as at December 31, 2019 and 2018. These shares, which bear dividend of 13.5% per annum based on the paid-up subscription price, are cumulative, non-convertible and redeemable at par value at the option of PLDT. Dividends earned on this investment amounted to Php49 million for each of the years ended December 31, 2019, 2018 and 2017.

Corporate Bonds

Investment in corporate bonds includes various long-term peso and dollar denominated bonds with maturities ranging from February 2020 to May 2027 and fixed interest rates from 3.95% to 7.06% per annum. Total investment in corporate bonds amounted to Php145 million and Php133 million as at December 31, 2019 and 2018, respectively.

Government Securities

Investment in government securities includes Fixed Rate Treasury Notes bearing interest rate of 5.88% per annum and zero-rated U.S. Treasury Bills. These securities are fully guaranteed by the governments of the Republic of the Philippines and United States of America. Total investment in government securities amounted to Php22 million and Php31 million as at December 31, 2019 and 2018, respectively.

Mutual Funds

Investment in mutual funds includes a local equity fund, which aims to out-perform benchmarks in various indices as part of its investment strategy. Total investment in mutual funds amounted to Php9 million and Php4 million as at December 31, 2019 and 2018, respectively.

The allocation of the fair value of the assets for the PLDT pension plan as at December 31, 2019 and 2018 are as follows:

	2019	2018
Investments in listed and unlisted equity securities	96%	95%
Temporary cash investments	3%	4%
Debt and fixed income securities	1%	1%
	100%	100%

Defined Contribution Plans

Smart’s and certain of its subsidiaries’ contributions to the plan are made based on the employees’ years of tenure and range from 5% to 10% of the employee’s monthly salary. Additionally, an employee has an option to make a personal contribution to the fund, at an amount not exceeding 10% of his monthly salary. The employer then provides an additional contribution to the fund ranging from 10% to 50% of the employee’s contribution based on the employee’s years of tenure. Although the plan has a defined contribution format, Smart and certain of its subsidiaries regularly monitor their compliance with R.A. 7641. As at December 31, 2019 and 2018, Smart and certain of its subsidiaries were in compliance with the requirements of R.A. 7641.

Smart's and certain of its subsidiaries' actuarial valuation is performed every year-end. Based on the latest actuarial valuation, the actual present value of prepaid benefit costs, net periodic benefit costs and average assumptions used in developing the valuation as at and for the years ended December 31, 2019, 2018 and 2017 are as follows:

	2019	2018	2017
	(in million pesos)		
Changes in the present value of defined benefit obligations:			
Present value of defined benefit obligations at beginning of the year	2,804	2,490	2,177
Service costs	239	314	269
Interest costs on benefit obligation	174	—	113
Actuarial losses (gains) – experience	100	—	(6)
Actuarial losses – economic assumptions	13	—	29
Actual benefits paid/settlements	(37)	—	(92)
Curtailement and others	(480)	—	—
Present value of defined benefit obligations at end of the year	2,813	2,804	2,490
Changes in fair value of plan assets:			
Fair value of plan assets at beginning of the year	3,159	2,862	2,414
Actual contributions	281	297	335
Interest income on plan assets	190	—	131
Return on plan assets (excluding amount included in net interest)	100	—	74
Actual benefits paid/settlements	(37)	—	(92)
Others	(609)	—	—
Fair value of plan assets at end of the year	3,084	3,159	2,862
Funded status – net	271	355	372
Accrued benefit costs	—	23	13
Prepaid benefit costs (Note 19)	271	378	385
Components of net periodic benefit costs:			
Service costs	239	314	269
Curtailement/settlement gain	(6)	—	—
Interest income	(16)	—	—
Others	(39)	—	(18)
Net periodic benefit costs (Note 5)	178	314	251

Smart's net consolidated pension benefit costs amounted to Php178 million, Php314 million and Php251 million for the years ended December 31, 2019, 2018 and 2017, respectively.

Actual net gains on plan assets amounted to Php290 million, nil and Php205 million for the years ended December 31, 2019, 2018 and 2017, respectively.

Based on the latest actuarial valuation, Smart and certain of its subsidiaries expect to contribute the amount of approximately Php337 million to the plan in 2020.

The following table sets forth the expected future settlements by the Plan of maturing defined benefit obligation as at December 31, 2019:

	(in million pesos)
2020	523
2021	101
2022	100
2023	113
2024	153
2025 to 2060	1,295

The average duration of the defined benefit obligation at the end of the reporting period is 12 to 20 years.

The weighted average assumptions used to determine pension benefits for the years ended December 31, 2019, 2018 and 2017 are as follows:

	2019	2018	2017
Rate of increase in compensation	5.0%	7.3%	5.0%
Discount rate	7.3%	6.0%	5.8%

The sensitivity analysis below has been determined based on reasonably possible changes of each significant assumption on the defined benefit obligation as at December 31, 2019, assuming if all other assumptions were held constant:

	Increase (Decrease) (in million pesos)	
Discount rate	(0.27%)	(8)
	0.74%	21
Future salary increases	0.72%	20
	(0.27%)	(8)

Smart's Retirement Plan

The fund is being managed and invested by BPI Asset Management and Trust Corporation, as Trustee, pursuant to an amended trust agreement dated February 21, 2012.

The plan's investment portfolio seeks to achieve regular income, long-term capital growth and consistent performance over its own portfolio benchmark. In order to attain this objective, the Trustee's mandate is to invest in a diversified portfolio of bonds and equities, both domestic and international. The portfolio mix is kept for 50%, 30% and 20% for fixed income securities, temporary placements and equity securities, respectively.

The following table sets forth the fair values, which are equal to the carrying values, of Smart's plan assets recognized as at December 31, 2019 and 2018:

	2019	2018
	(in million pesos)	
Noncurrent Financial Assets		
Investments in:		
Domestic fixed income	1,993	1,854
International equities	1,114	550
Domestic equities	649	333
Philippine foreign currency bonds	516	165
International fixed income	142	—
Total noncurrent financial assets	4,414	2,902
Current Financial Assets		
Cash and cash equivalents	32	891
Receivables	2	1
Total current financial assets	34	892
Total plan assets	4,448	3,794
Less: Employee's share, forfeitures and mandatory reserve account	1,364	635
Total Plan Assets of Defined Contribution Plans	3,084	3,159

Domestic Fixed Income

Investments in domestic fixed income include Philippine Peso denominated bonds, such as government securities and corporate debt securities, with fixed interest rates from 2.8% to 12.0% per annum. Total investments in domestic fixed income amounted to Php1,993 million and Php1,854 million as at December 31, 2019 and 2018, respectively.

International Equities

Investments in international equities include exchange traded funds, mutual funds and, unit investment trust funds managed by BlackRock Fund Advisors, State Street Global Advisors, WisdomTree Investments Advisors, Wellington Management Company, and BPI Asset Management and Trust Corporation. Total investments in international equities amounted to Php1,114 million and Php550 million as at December 31, 2019 and 2018, respectively.

Domestic Equities

Investments in domestic equities include direct equity investments in common shares listed in the PSE. These investments earn on stock price appreciation and dividend payments. Total investment in domestic equities amounted to Php649 million and Php333 million as at December 31, 2019 and 2018, respectively. This includes investment in PLDT shares with fair value of Php13 million and Php15 million as at December 31, 2019 and 2018, respectively.

Philippine Foreign Currency Bonds

Investments in Philippine foreign currency bonds include U.S. Dollar denominated fixed income instruments issued by the Philippine government and local corporations with fixed interest rates from 3.70% to 10.63% per annum. Total investment in Philippine foreign currency bonds amounted to Php516 million and Php165 million as at December 31, 2019 and 2018, respectively.

International Fixed Income

Investments in international fixed income include mutual fund invested in PIMCO GIS Global Bond Fund. Total investments in international fixed income amounted to Php142 million and nil as at December 31, 2019 and 2018, respectively.

Cash and Cash Equivalents

This pertains to the fund's excess liquidity in Philippine Peso and U.S. Dollars including investments in time deposits, money market funds and other deposit products of banks with duration or tenor less than a year.

The asset allocation of the Plan is set and reviewed from time to time by the Plan Trustees taking into account the membership profile, the liquidity requirements of the Plan and risk appetite of the Plan sponsor. This considers the expected benefit cash flows to be matched with asset durations.

The plan assets are primarily exposed to financial risks such as liquidity risk and price risk.

Liquidity risk pertains to the plan's ability to meet its obligation to the employees upon retirement. To effectively manage liquidity risk, the Plan Trustees invest a portion of the fund in readily tradeable and liquid investments which can be sold at any given time to fund liquidity requirements.

Price risk pertains mainly to fluctuations in market prices of equity securities listed in the PSE. In order to effectively manage price risk, the Plan Trustees continuously assess these risks by closely monitoring the market value of the securities and implementing prudent investment strategies.

The allocation of the fair value of Smart and certain of its subsidiaries pension plan assets as at December 31, 2019 and 2018 is as follows:

	2019	2018
Investments in debt and fixed income securities and others	60%	77%
Investments in listed and unlisted equity securities	40%	23%
	100%	100%

Other Long-term Employee Benefits

On September 26, 2017, the Board of Directors of PLDT approved the TIP which intends to provide incentive compensation to key officers, executives and other eligible participants who are consistent performers and contributors to the Company's strategic and financial goals. The incentive compensation will be in the form of Performance Shares, PLDT common shares of stock, which will be released in three annual grants on the condition, among others, that pre-determined consolidated core net income targets are successfully achieved over three annual performance periods from January 1, 2017 to December 31, 2019. On September 26, 2017, the Board of Directors approved the acquisition of 860 thousand Performance Shares to be awarded under the TIP. On March 7, 2018, the ECC of the Board approved the acquisition of additional 54 thousand shares, increasing the total Performance Shares to 914 thousand. Metrobank, through its Trust Banking Group, is the appointed Trustee of the trust established for purposes of the TIP. The Trustee is designated to acquire the PLDT common shares in the open market through the facilities of the PSE, and administer their distribution to the eligible participants subject to the terms and conditions of the TIP.

On December 11, 2018, the ECC of the Board approved Management's recommended modifications to the Plan, and partial equity and cash settled set-up was implemented for the 2019 TIP Grant. The revised set-up includes a fixed number of shares that will be granted ("equity award") and the estimated fair value of the difference between the number of shares granted in the original equity grant and the equity award will be paid in cash ("cash award"). The fair value of the award is determined at each reporting date using the estimated fair value of the corresponding shares.

As at March 31, 2020, a total of 757 thousand PLDT common shares have been acquired by the Trustee, of which 236 thousand, 302 thousand and 204 thousand PLDT common shares have been released to the eligible participants on March 12, 2020 for the 2019 annual grant, on March 28, 2019 for the 2018 annual grant and on April 5, 2018 for the 2017 annual grant, respectively. The cash award for the 2019 annual grant that was paid on March 12, 2020 amounted to Php654 million. The TIP is administered by the ECC of the Board. The expense accrued for the TIP amounted to Php638 million, Php208 million and Php827 million for the years ended December 31, 2019, 2018 and 2017, respectively. The accrued incentive payable, representing the cash settled set-up amounted to Php795 million as at December 31, 2019. See *Note 3 – Management's Use of Accounting Judgments, Estimates and Assumptions – Estimating Pension Benefit Costs and Other Employee Benefits* and *Note 5 – Income and Expenses – Compensation and Employee Benefits*.

27. Provisions and Contingencies

PLDT's Local Business and Franchise Tax Assessments

Pursuant to a decision of the Supreme Court on March 25, 2003 in the case of *PLDT vs. City of Davao* declaring PLDT not exempt from the local franchise tax, PLDT started paying local franchise tax to various Local Government Units, or LGUs. As at December 31, 2019, PLDT has no contested LGU assessments for franchise taxes based on gross receipts received or collected for services within their respective territorial jurisdiction.

Smart's Local Business and Franchise Tax Assessments

The Province of Cagayan issued a tax assessment against Smart for alleged local franchise tax. In 2011, Smart appealed the assessment to the Regional Trial Court, or RTC, of Makati on the ground that Smart cannot be held liable for local franchise tax mainly because it has no sales office within the Province of Cagayan pursuant to Section 137 of the Local Government Code (Republic Act No. 7160). The RTC issued a TRO and a writ of preliminary injunction. On April 30, 2012, the RTC rendered a decision nullifying the tax assessment. The Province of Cagayan was also directed to cease and desist from imposing local franchise taxes on Smart's gross receipts. The Province of Cagayan then appealed to the Court of Tax Appeals, or CTA. In a Decision promulgated on July 25, 2013, the CTA ruled that the franchise tax assessment is null and void for lack of legal and factual justifications. Cagayan's Motion for Reconsideration was denied. Cagayan then appealed before the CTA En Banc. The CTA En Banc issued a Decision dated December 8, 2015 affirming the nullity of the tax assessment. On January 26, 2016, the Province of Cagayan filed a Partial Motion for Reconsideration, praying among others, that the Court enter a new decision declaring as valid and legal the tax assessment issued by Province of Cagayan to Smart. The CTA En Banc then issued a Resolution dated June 22, 2016 denying the Partial Motion for Reconsideration filed by the Province of Cagayan for lack of merit. On July 31, 2016, the Decision dated December 8, 2015 became final and executory and recorded in the book of entries of judgement of the CTA.

In 2016, Cagayan issued another local franchise tax assessment against Smart covering years 2011-2015. Using the same grounds in the first case, Smart appealed the assessment with the RTC of Tuguegarao where the case is pending. The RTC then directed the parties to file their respective Memorandum within 30 days from date of receipt. Smart filed its Memorandum on November 7, 2018.

In 2015, the City of Manila issued assessments for alleged business tax deficiencies and cell sites regulatory fees and charges. Smart protested the assessments. After Manila denied the protest, Smart appealed to the RTC of the City of Manila, arguing that it is not liable for local business taxes on income realized from its telecommunications operations and that the assessments were a clear circumvention of Manila City Ordinance No. 8299 exempting Smart from the payment of local franchise tax. The assessment for regulatory fees was contested for being void, as they were made without a valid and legal basis. In the Decision promulgated on March 9, 2016, the RTC declared the local business tax and cell site regulatory fee assessments as invalid and void. The City of Manila filed a Petition for Review with the CTA seeking to reverse the Decision. Through a Decision dated December 18, 2017, the Court dismissed the Petition for lack of jurisdiction. On January 2018, Smart received a copy of the City of Manila's Motion for Reconsideration, which was denied by the CTA in a Resolution dated May 17, 2018. The City of Manila filed a Petition for Review dated June 1, 2018 before the CTA En Banc. Smart filed its Comment on October 23, 2018. Petition for review is submitted for decision pursuant to Resolution dated November 15, 2018. The Petition for Review filed by the City of Manila was denied by the Court of Tax Appeals En Banc in a Decision dated November 6, 2019. The CTA En Banc affirmed the: (1) Decision of CTA Division dated December 18, 2017, dismissing the petition of the City of Manila for lack of jurisdiction; and (2) Resolution of CTA Division dated May 17, 2018, dismissing the Motion for Reconsideration of the City of Manila for lack of merit.

Digitel's Franchise Tax Assessment and Real Property Tax Assessment

Digitel is discussing with various local government units as to settlement of its franchise tax and real property tax liabilities.

DMPI's Local Business and Real Property Taxes Assessments

In *DMPI vs. City of Cotabato*, DMPI filed a Petition in 2010 for Prohibition and Mandamus against the City of Cotabato due to their threats to close its cell sites brought about by the alleged real property tax delinquencies. The RTC denied the petition. DMPI appealed with the CTA. On December 29, 2017, the CTA dismissed DMPI's Petition for Review on the ground of lack of jurisdiction. On January 12, 2018, DMPI filed its Motion for Reconsideration. The CTA issued a resolution directing respondent City of Cotabato to file comment/opposition within 10 days and thereafter, the incident will be submitted for resolution. A Withdrawal of Counsel and Entry of Appearance were filed on May 7, 2018 and May 24, 2018, respectively. On May 7, 2018, the CTA promulgated a resolution denying DMPI's Motion for Reconsideration for lack of merit. A notice for Entry of Judgment was issued by the CTA on August 23, 2018. A dialogue between DMPI and the City of Cotabato was conducted for possible amicable settlement. On January 30, 2019, DMPI filed its Compliance, informing the CTA that it paid the real property tax amounting to Php3 million on December 20, 2018. The CTA noted DMPI's compliance in a Resolution dated February 12, 2019.

In the *DMPI vs. City Government of Malabon*, DMPI filed a Petition for Prohibition and Mandamus against the City of Malabon to prevent the auction sale of DMPI sites in its jurisdiction due to the alleged real property tax liabilities. DMPI was able to secure a TRO to defer the sale. Through a Compromise Judgment dated October 6, 2017, the RTC of Malabon approved the compromise agreement executed by the parties.

DMPI vs. City of Trece Martires

In 2010, DMPI petitioned to declare void the City of Trece Martires ordinance of imposing tower fee of Php150 thousand for each cell site every year. Application for the issuance of a preliminary injunction by DMPI is pending resolution as of date.

ACeS Philippines' Local Business and Franchise Tax Assessments

ACeS Philippines has a pending case with the Supreme Court (*ACeS Philippines Satellite Corporation vs. Commissioner of Internal Revenue* Supreme Court G.R. No. 226680) for alleged 2006 deficiency withholding tax. On July 23, 2014, the CTA Second Division affirmed the assessment of the Commissioner of Internal Revenue for deficiency basic withholding tax, surcharge plus deficiency interest and delinquency interest amounting to Php87 million. On November 18, 2014, ACeS Philippines filed a Petition for Review with the CTA En Banc. On August 16, 2016, the CTA En Banc also affirmed the assessment with finality. Hence, on October 19, 2016, ACeS Philippines filed a petition before the Supreme Court assailing the decision of the CTA. ACeS Philippines intends to file a formal request for compromise of tax liabilities before the BIR while the case is pending before the Supreme Court. On February 23, 2017 and March 15, 2017, respectively, the Company paid and filed a formal request for compromise of tax liabilities amounting to Php27 million before the BIR while the case is pending before the Supreme Court. No outstanding Letter of Authority for other years.

Arbitration with Eastern Telecommunications Philippines, Inc., or ETPI

Since 1990 up to the present, PLDT and ETPI have been engaged in legal proceedings involving a number of issues in connection with their business relationship. Among PLDT's claims against ETPI are ETPI's alleged uncompensated bypass of PLDT's systems from July 1, 1998 to November 28, 2003; unpaid access charges from July 1, 1999 to November 28, 2003; and non-payment of applicable rates for Off-Net and On-Net traffic from January 1, 1999 to November 28, 2003 arising from ETPI's unilateral reduction of its rates for the Philippines-Hong Kong traffic stream through Hong Kong REACH-ETPI circuits. ETPI's claims against PLDT, on the other hand, involve an alleged Philippines-Hong Kong traffic shortfall for the period July 1, 1998 to November 28, 2003; unpaid share of revenues generated from PLDT's activation of additional growth circuits in the Philippines-Singapore traffic stream for the period July 1, 1999 to November 28, 2003; under reporting of ETPI share of revenues under the terms of a Compromise Agreement for the period January 1, 1999 to November 28, 2003 (which ETPI is seeking to retroact to February 6, 1990); lost revenues arising from PLDT's blocking of incoming traffic from Hong Kong from November 1, 2001 up to November 2003; and lost revenues arising from PLDT's circuit migration from January 1, 2001 up to December 31, 2001.

While the parties have entered into Compromise Agreements in the past (one in February 1990 and another in March 1999), said agreements have not put to rest the issues between them. To avoid protracted litigation and to preserve their business relationship, PLDT and ETPI agreed to submit their differences and issues to voluntary arbitration. On April 16, 2008, PLDT and ETPI signed an Arbitration Settlement Agreement and submitted their respective Statement of Claims and Answers. Subsequent to such submissions, PLDT and ETPI agreed to suspend the arbitration proceedings. ETPI's total claim against PLDT is about Php2.9 billion while PLDT's total claim against ETPI is about Php2.8 billion.

In an agreement, PLDT and Globe have agreed that they shall cause ETPI, within a reasonable time after May 30, 2016, to dismiss Civil Case No. 17694 entitled *Eastern Telecommunications Philippines, Inc. vs. Philippine Long Distance Telephone Company*, and all related or incidental proceedings (including the voluntary arbitration between ETPI and PLDT), and PLDT, in turn, simultaneously, shall withdraw its counterclaims against ETPI in the same entitled case, all with prejudice.

In the Matter of the Wilson Gamboa Case and Jose M. Roy III Petition

In *Wilson P. Gamboa vs. Finance Secretary Margarito B. Teves, et. al. (G.R. No. 176579)* (the "Gamboa Case"), the Supreme Court held that the term 'capital' in Section 11, Article XII of the 1987 Constitution refers only to "shares of stock entitled to vote in the election of directors" and thus only to voting common shares, and not to the "total outstanding capital stock (common and non-voting preferred shares)." It directed the Philippine SEC "to apply this definition of the term 'capital' in determining the extent of allowable foreign ownership in PLDT, and if there is a violation of Section 11, Article XII of the Constitution, to impose the appropriate sanctions under the law." On October 9, 2012, the Supreme Court issued a Resolution denying with finality all Motions for Reconsideration of the respondents. The Supreme Court decision became final and executory on October 18, 2012.

On May 20, 2013, the Philippine SEC issued SEC Memorandum Circular No. 8, Series of 2013 - Guidelines on Compliance with the Filipino-Foreign Ownership Requirements Prescribed in the Constitution and/or Existing Laws by Corporations Engaged in Nationalized and Partly-Nationalized Activities, or MC No. 8, which provides that the required percentage of Filipino ownership shall be applied to BOTH (a) the total number of outstanding shares of stock entitled to vote in the election of directors; AND (b) the total number of outstanding shares of stock, whether or not entitled to vote in the election of directors.

On June 10, 2013, Jose M. Roy III filed before the Supreme Court a Petition for Certiorari against the Philippine SEC, Philippine SEC Chairman and PLDT, or the Petition, claiming: (1) that MC No. 8 violates the decision of the Supreme Court in the Gamboa Case, which according to the Petitioner required that (a) the 60-40 ownership requirement be imposed on "each class of shares" and (b) Filipinos must have full beneficial ownership of 60% of the outstanding capital stock of those corporations subject to that 60-40 Filipino-foreign ownership requirement; and (2) that the PLDT Beneficial Trust Fund is not a Filipino-owned entity and consequently, the corporations owned by PLDT Beneficial Trust Fund, including BTFHI, which owns 150 million voting preferred shares in PLDT, cannot be considered a Filipino-owned corporation. PLDT and Philippine SEC sought the dismissal of the Petition.

In July 16, 2013, Wilson C. Gamboa, Jr. et. al. filed a Motion for Leave to file a Petition-in-Intervention dated July 16, 2013, which the Supreme Court granted on August 6, 2013. The Petition-in-Intervention raised identical arguments and issues as those in the Petition.

The Supreme Court, in its November 22, 2016 decision, dismissed the Petition and Petition-In-Intervention and upheld the validity of MC No. 8. In the course of discussing the Petition, the Supreme Court expressly rejected petitioners' argument that the 60% Filipino ownership requirement for public utilities must be applied to each class of shares. According to the Court, the position is "simply beyond the literal text and contemplation of Section 11, Article XII of the 1987 Constitution" and that the petitioners' suggestion would "effectively and unwarrantedly amend or change" the Court's ruling in the Gamboa Case. In categorically rejecting the petitioners' claim, the Court declared and stressed that its ruling in the Gamboa Case "did NOT make any definitive ruling that the 60% Filipino ownership requirement was intended to apply to each class of shares." On the contrary, according to the Court, "nowhere in the discussion of the term "capital" in Section 11, Article XII of the 1987 Constitution in the Gamboa Decision did the Court mention the 60% Filipino equity requirement to be applied to each class of shares."

In respect of ensuring Filipino ownership and control of public utilities, the Court noted that this is already achieved by the requirements under MC No. 8. According to the Court, “since Filipinos own at least 60% of the outstanding shares of stock entitled to vote directors, which is what the Constitution precisely requires, then the Filipino stockholders control the corporation – i.e., they dictate corporate actions and decisions...”

The Court further noted that the application of the Filipino ownership requirement as proposed by petitioners “fails to understand and appreciate the nature and features of stocks and financial instruments” and would “greatly erode” a corporation’s “access to capital – which a stock corporation may need for expansion, debt relief/repayment, working capital requirement and other corporate pursuits.” The Court reaffirmed that “stock corporations are allowed to create shares of different classes with varying features” and that this “is a flexibility that is granted, among others, for the corporation to attract and generate capital (funds) from both local and foreign capital markets” and that “this access to capital – which a stock corporation may need for expansion, debt relief/repayment, working capital requirement and other corporate pursuits – will be greatly eroded with further unwarranted limitations that are not articulated in the Constitution.” The Court added that “the intricacies and delicate balance between debt instruments (liabilities) and equity (capital) that stock corporations need to calibrate to fund their business requirements and achieve their financial targets are better left to the judgment of their boards and officers, whose bounden duty is to steer their companies to financial stability and profitability and who are ultimately answerable to their shareholders.”

The Court went on to say that “a too restrictive definition of ‘capital’, one that was never contemplated in the Gamboa Decision, will surely have a dampening effect on the business milieu by eroding the flexibility inherent in the issuance of preferred shares with varying terms and conditions. Consequently, the rights and prerogatives of the owners of the corporation will be unwarrantedly stymied.” Accordingly, the Court said that the petitioners’ “restrictive interpretation of the term ‘capital’ would have a tremendous adverse impact on the country as a whole – and to all Filipinos.”

Petitioner Jose M. Roy III filed a Motion for Reconsideration of the Supreme Court Decision dated November 22, 2016. On April 18, 2017, the Supreme Court denied with finality Petitioner’s Motion for Reconsideration. On August 5, 2017, PLDT received a copy of the Entry of Judgment.

Department of Labor and Employment, or DOLE, Compliance Order, or Order, to PLDT

The CA issued a Decision in this case on July 31, 2018.

In a series of orders including a Compliance Order issued by the DOLE Regional Office on July 3, 2017, which was partly affirmed by DOLE Secretary Silvestre Bello, III, or DOLE Secretary, in his resolutions dated January 10, 2018 and April 24, 2018, the DOLE had previously ordered PLDT to regularize 7,344 workers from 38 of PLDT’s third party service contractors. PLDT questioned these “regularization orders” before the CA, which led to the July 31, 2018 Decision.

In sum, the CA: (i) granted PLDT’s prayer for an injunction against the regularization orders; (ii) set aside the regularization orders insofar as they declared that there was labor-only contracting of the following functions: (a) janitorial services, messengerial and clerical services; (b) information technology, or IT, firms and services; (c) IT support services, both hardware and software, and applications development; (d) back office support and office operations; (e) business process outsourcing or call centers; (f) sales; and (g) medical, dental engineering and other professional services; and (iii) remanded to the DOLE for further proceedings, the matters of: (a) determining which contractors, and which individuals deployed by these contractors, are performing installation, repair and maintenance of PLDT lines; and (b) properly computing monetary awards for benefits such as unpaid overtime or 13th month pay, which in the regularization orders amounted to Php51.8 million.

The CA agreed with PLDT’s contention that the DOLE Secretary’s regularization order was “tainted with grave abuse of discretion” because it did not meet the “substantial evidence” standards set out by the Supreme Court in landmark jurisprudence. The Court also said that the DOLE’s appreciation of evidence leaned in favor of the contractor workers, and that the DOLE Secretary had “lost sight” of distinctions involving the labor law concepts of “control over means and methods,” and “control over results.”

On August 20, 2018, PLDT filed a motion seeking a partial reconsideration of that part of the CA decision, which ordered a remand to the Office of the Regional Director of the DOLE-National Capital Region of the matter of the regularization of individuals performing installation, repair and maintenance, or IRM, services. In its motion, PLDT argued that the fact-finding process contemplated by the Court's remand order is actually not part of the visitorial power of the DOLE (i.e., the evidence that will need to be assessed cannot be gleaned by in the 'normal course' of a labor inspection) and is therefore, outside the jurisdiction of the DOLE Secretary.

PLDT also questioned that part of the CA ruling which seems to conclude that all IRM jobs are "regular." It argued that the law recognizes that some work of this nature can be project-based or seasonal in nature. Instead of the DOLE, PLDT suggested that the National Labor Relations Commission – a tribunal with better fact-finding powers – take over from the DOLE to determine whether the jobs are in fact IRM, and if so, whether they are "regular" or can be considered project-based or seasonal.

Both adverse parties, the PLDT rank-and-file labor union *Manggagawa sa Komunikasyon ng Pilipinas*, or MKP, and the DOLE filed Motions for Reconsideration.

On February 14, 2019, the CA issued a Resolution denying all Motions for Reconsideration and upheld its July 31, 2018 Decision. After filing a Motion for Extension of Time on March 7, 2019, PLDT filed on April 5, 2019 a Petition for Review with the Supreme Court, questioning only one aspect of the CA decision i.e. its order remanding to the DOLE the determination of which jobs fall within the scope of "installation, repair and maintenance," without however a qualification as to the "project" or "seasonal" nature of those engagements. The Supreme Court has consolidated PLDT's Petition with the separate Petitions for Review filed by the DOLE and MKP. The consolidated case remains pending with the Supreme Court as of the date of the report.

Attys. Baquiran and Tecson vs. NTC, et al.

This is a Petition for Mandamus filed on October 23, 2018 by Attys. Joseph Lemuel Baligod Baquiran and Ferdinand C. Tecson against the Respondents NTC, the PCC, Liberty, BellTel, Globe, PLDT and Smart. Briefly, the case involves the 700 MHz frequency, among others, or Subject Frequencies, that was originally assigned to Liberty and which eventually became subject of the Co-Use Agreement between Globe, on the one hand, and PLDT and Smart, on the other.

The Petition prayed that: (a) a Temporary Restraining Order, or TRO, /Writ of Preliminary Injunction, or WPI, be issued to enjoin and restrain Globe, PLDT and Smart from utilizing and monopolizing the Subject Frequencies and the NTC from bidding out or awarding the frequencies returned by PLDT, Smart and Globe; (b) the NTC's conditional assignment of the Subject Frequencies be declared unconstitutional, illegal and void; (c) alternatively, Liberty and its successors-in-interest be divested of the Subject Frequencies and the same be reverted to the State; (d) Liberty be declared to have transgressed Section 11 (1), Article XVI of the Constitution; (e) Liberty and its parent company be declared to have contravened paragraph 2 of Section 10, Article XII of the 1987 Constitution; (f) Liberty's assignment of the Subject Frequencies to BellTel be declared illegal and void; (g) the Co-Use Agreement be declared invalid; (h) the NTC be found to have unlawfully neglected the performance of its positive duties; (i) the PCC be found to have unlawfully neglected the performance of its positive duties; (j) a Writ of Mandamus be issued commanding the NTC to revoke the Co-Use Agreement, recall the Subject Frequencies in favor of the State, and make the same available to the best qualified telecommunication players; (k) a Writ of Mandamus be issued commanding the PCC to conduct a full review of PLDT's and Globe's acquisition of all issued and outstanding shares of Vega Telecom; (l) an Investigation of NTC be ordered for possible violation of Section 3 (e) of R.A. 3019 and other applicable laws; and (m) the said TRO/WPI be made permanent.

Essentially, petitioners contend that the NTC's assignments of the Subject Frequencies of Liberty were void for failing to comply with Section 4 (c) of R.A. 7925 which essentially states that "the radio frequency spectrum is a scarce public resource xxx." Even assuming the assignments were valid, Liberty should be deemed divested of the same by operation of law (with the Subject Frequencies reverted to the State), considering that it underutilized or never utilized the Subject Frequencies in violation of the terms and conditions of the assignment. Assuming further that the NTC's assignments of the Subject Frequencies were valid and that Liberty was not divested of the same by operation of law, still, Liberty did not validly assign the Subject Frequencies to BellTel because of the absence of Congressional approval. Petitioners conclude that since the assignments of the Subject Frequencies from the NTC to Liberty, and from Liberty to BellTel, were all illegal and void, it follows that the Subject Frequencies could not serve as the object of the Co-Use Agreement between PLDT, Smart and Globe.

On November 23, 2018, PLDT filed an Entry of Appearance on behalf of PLDT and Smart. On January 17, 2019, PLDT and Smart filed their Comment. Essentially, the Comment raised the following arguments: *first*, that the requisites for judicial review and for a mandamus petition are lacking; *second*, that there was no need for Liberty to obtain prior Congressional approval before it assigned the Subject Frequencies to BellTel; and *third*, that the Co-Use Agreement is valid and approved by the NTC, and did not violate the Constitution or any laws.

On January 15, 2019, PLDT received a copy of BellTel's Comment/Opposition dated January 10, 2019. On February 12, 2019, PLDT received a copy of Globe Telecom, Inc.'s, or Globe's Comment/Opposition dated January 21, 2019. In a Resolution dated March 19, 2019, the Supreme Court noted the aforesaid filings. As at the date of the report, however, PLDT has not received any pleadings from the OSG on behalf of the public respondents.

On June 18, 2019, the Supreme Court issued a Resolution consolidating this case with G.R. No. 230798 (Philippine Competition Commission vs. CA [Twelfth Division] and PLDT; Globe, intervenor) and G.R. No. 234969 (Philippine Competition Commission vs. PLDT and Globe). The consolidated cases were assigned to the Court in charge of G.R. No. 230798, the case with the lowest docket number.

Other disclosures required by PAS 37, *Provisions, Contingent Liabilities and Contingent Assets*, were not provided as it may prejudice our position in on-going claims, litigations and assessments. See *Note 3 – Management's Use of Accounting Judgments, Estimates and Assumptions – Provision for legal contingencies and tax assessments*.

28. Financial Assets and Liabilities

We have various financial assets such as trade and non-trade receivables, cash and short-term deposits. Our principal financial liabilities, other than derivatives, comprise of bank loans, finance leases, trade and non-trade payables. The main purpose of these financial liabilities is to finance our operations. We also enter into derivative transactions, primarily principal only-currency swap agreements, interest rate swaps and forward foreign exchange contracts and options to manage the currency and interest rate risks arising from our operations and sources of financing. Our accounting policies in relation to derivatives are set out in *Note 2 – Summary of Significant Accounting Policies – Financial Instruments*.

The following table sets forth our consolidated financial assets and financial liabilities as at December 31, 2019 and 2018:

	Financial instruments at amortized cost	Financial instruments at FVPL	Financial instruments at FVOCI	Total financial instruments
(in million pesos)				
Assets as at December 31, 2019				
<i>Noncurrent:</i>				
Financial assets at fair value through profit or loss	—	3,369	—	3,369
Derivative financial assets – net of current portion	—	1	—	1
Financial assets at fair value through other comprehensive income – net of current portion	—	—	162	162
Other financial assets – net of current portion	1,986	—	—	1,986
<i>Current:</i>				
Cash and cash equivalents	24,369	—	—	24,369
Short-term investments	314	—	—	314
Trade and other receivables	22,436	—	—	22,436
Current portion of derivative financial assets	—	41	—	41
Current portion of debt instruments at amortized cost	150	—	—	150
Current portion of financial assets at fair value through other comprehensive income	—	—	2,757	2,757
Current portion of other financial assets	1,220	6,866	—	8,086
Total assets	50,475	10,277	2,919	63,671
Liabilities as at December 31, 2019				
<i>Noncurrent:</i>				
Interest-bearing financial liabilities – net of current portion	172,834	—	—	172,834
Lease liabilities – net of current portion	13,100	—	—	13,100
Derivative financial liabilities – net of current portion	—	25	—	25
Customers' deposits	2,205	—	—	2,205
Deferred credits and other noncurrent liabilities	2,179	—	—	2,179
<i>Current:</i>				
Accounts payable	76,384	—	—	76,384
Accrued expenses and other current liabilities	73,303	7,851	—	81,154
Current portion of interest-bearing financial liabilities	19,722	—	—	19,722
Current portion of lease liabilities	3,215	—	—	3,215
Dividends payable	1,584	—	—	1,584
Current portion of derivative financial liabilities	—	88	—	88
Total liabilities	364,526	7,964	—	372,490
Net assets (liabilities)	(314,051)	2,313	2,919	(308,819)

	Financial instruments at amortized cost	Financial instruments at FVPL (in million pesos)	Financial instruments at FVOCI	Total financial instruments
Assets as at December 31, 2018				
<i>Noncurrent:</i>				
Financial assets at fair value through profit or loss	—	4,763	—	4,763
Debt instruments at amortized cost	150	—	—	150
Derivative financial assets – net of current portion	—	140	—	140
Financial assets at fair value through other comprehensive income – net of current portion	—	—	2,749	2,749
Other financial assets – net of current portion	2,275	—	—	2,275
<i>Current:</i>				
Cash and cash equivalents	51,654	—	—	51,654
Short-term investments	1,165	—	—	1,165
Trade and other receivables	24,056	—	—	24,056
Current portion of derivative financial assets	—	183	—	183
Current portion of financial assets at fair value through other comprehensive income	—	—	1,604	1,604
Current portion of other financial assets	175	6,833	—	7,008
Total assets	79,475	11,919	4,353	95,747
Liabilities as at December 31, 2018				
<i>Noncurrent:</i>				
Interest-bearing financial liabilities – net of current portion	155,835	—	—	155,835
Customers' deposits	2,194	—	—	2,194
Deferred credits and other noncurrent liabilities	3,088	—	—	3,088
<i>Current:</i>				
Accounts payable	72,818	—	—	72,818
Accrued expenses and other current liabilities	68,920	7,862	—	76,782
Current portion of interest-bearing financial liabilities	20,441	—	—	20,441
Dividends payable	1,533	—	—	1,533
Current portion of derivative financial liabilities	—	80	—	80
Total liabilities	324,829	7,942	—	332,771
Net assets (liabilities)	(245,354)	3,977	4,353	(237,024)

The following table sets forth our consolidated offsetting of financial assets and liabilities recognized as at December 31, 2019 and 2018:

	Gross amounts of recognized financial assets and liabilities	Gross amounts of recognized financial assets and liabilities set-off in the consolidated statements of financial position	Net amount presented in the consolidated statements of financial position
	(in million pesos)		
December 31, 2019			
Current Financial Assets			
Trade and other receivables			
Foreign administrations	5,857	4,338	1,519
Domestic carriers	1,018	219	799
Total	6,875	4,557	2,318
Current Financial Liabilities			
Accounts payable			
Suppliers and contractors	68,121	70	68,051
Carriers and other customers	11,437	3,706	7,731
Total	79,558	3,776	75,782
December 31, 2018			
Current Financial Assets			
Trade and other receivables			
Foreign administrations	6,882	3,576	3,306
Domestic carriers	8,245	8,052	193
Total	15,127	11,628	3,499
Current Financial Liabilities			
Accounts payable			
Suppliers and contractors	69,144	45	69,099
Carriers and other customers	5,602	2,567	3,035
Total	74,746	2,612	72,134

There are no financial instruments subject to an enforceable master netting arrangement as at December 31, 2019 and 2018.

The following table sets forth our consolidated carrying values and estimated fair values of our financial assets and liabilities recognized as at December 31, 2019 and 2018 other than those whose carrying amounts are reasonable approximations of fair values:

	Carrying Value		Fair Value	
	2019	2018	2019	2018
	(in million pesos)			
Noncurrent Financial Assets				
Debt instruments at amortized cost – net of current portion	—	150	—	148
Other financial assets – net of current portion	1,986	2,275	1,657	2,020
Total	1,986	2,425	1,657	2,168
Noncurrent Financial Liabilities				
Interest-bearing financial liabilities:				
Long-term debt – net of current portion	172,834	155,835	169,965	139,504
Customers' deposits	2,205	2,194	1,539	1,305
Deferred credits and other noncurrent liabilities	2,179	3,088	1,953	2,583
Total	177,218	161,117	173,457	143,392

Below is the list of our consolidated financial assets and liabilities carried at fair value that are classified using a fair value hierarchy as required for our complete sets of consolidated financial statements as at December 31, 2019 and 2018. This classification provides a reasonable basis to illustrate the nature and extent of risks associated with those financial statements.

	2019				2018			
	Level 1 ⁽¹⁾	Level 2 ⁽²⁾	Level 3 ⁽³⁾	Total	Level 1 ⁽¹⁾	Level 2 ⁽²⁾	Level 3 ⁽³⁾	Total
	(in million pesos)							
Noncurrent Financial Assets								
Listed equity securities								
Financial assets at FVPL	2,442	304	623	3,369	3,625	154	984	4,763
Derivative financial assets – net of current portion	—	1	—	1	—	140	—	140
Financial assets at FVOCI – net of current portion	—	162	—	162	—	2,749	—	2,749
Current Financial Assets								
Current portion of derivative financial assets	—	41	—	41	—	183	—	183
Current portion of FVOCI	—	2,757	—	2,757	—	1,604	—	1,604
Current portion of other financial assets	—	6,866	—	6,866	—	6,833	—	6,833
Total	2,442	10,131	623	13,196	3,625	11,663	984	16,272
Noncurrent Financial Liabilities								
Derivative financial liabilities – net of current portion	—	25	—	25	—	—	—	—
Current Financial Liabilities								
Accrued expenses and other current liabilities	—	7,851	—	7,851	—	7,862	—	7,862
Current portion of derivative financial liabilities	—	88	—	88	—	80	—	80
Total	—	7,964	—	7,964	—	7,942	—	7,942

⁽¹⁾ Fair values determined using observable market inputs that reflect quoted prices in active markets for identical assets or liabilities.

⁽²⁾ Fair values determined using inputs other than quoted market prices that are either directly or indirectly observable for the assets or liabilities.

⁽³⁾ Fair values determined using discounted values of future cash flows for the assets or liabilities.

As at December 31, 2019 and 2018, there were no transfers into and out of Level 3 fair value measurements.

As at December 31, 2019 and 2018, there were no transfers between Level 1 and Level 2 fair value measurements.

The following methods and assumptions were used to estimate the fair value of each class of financial instrument for which it is practicable to estimate such value:

Long-term financial assets and liabilities:

Fair value is based on the following:

Type	Fair Value Assumptions	Fair Value Hierarchy
Noncurrent portion of advances and other noncurrent assets	Estimated fair value is based on the discounted values of future cash flows using the applicable zero-coupon rates plus counterparties' credit spread.	Level 3
Fixed Rate Loans: U.S. Dollar notes	Quoted market price.	Level 1
Investment in debt securities	Fair values were determined using quoted prices. For non-quoted securities, fair values were determined using discounted cash flow based on market observable rates.	Level 1 Level 3
Other loans in all other currencies	Estimated fair value is based on the discounted value of future cash flows using the applicable Commercial Interest Reference Rate and BVAL rates for similar types of loans plus PLDT's credit spread. ⁽¹⁾	Level 3
Variable Rate Loans	The carrying value approximates fair value because of recent and regular repricing based on market conditions.	Level 2

⁽¹⁾ Effective October 29, 2018, PHP BVAL Reference Rates replaced PDST Reference Rates (PDST-RI and PDST-R2).

Derivative Financial Instruments

Forward foreign exchange contracts, foreign currency swaps and interest rate swaps: The fair values were computed as the present value of estimated future cash flows using market U.S. Dollar and Philippine Peso interest rates as at valuation date.

The valuation techniques considered various inputs including the credit quality of counterparties.

Due to the short-term nature of the transactions, the fair value of cash and cash equivalents, short-term investments, trade and other receivables, accounts payable, accrued expenses and other current liabilities and dividends payable approximate their carrying values as at the end of the reporting period.

Our derivative financial instruments are accounted for as either cash flow hedges or transactions not designated as hedges. Cash flow hedges refer to those transactions that hedge our exposure to variability in cash flows attributable to a particular risk associated with a recognized financial asset or liability and exposures arising from forecast transactions. Changes in the fair value of these instruments representing effective hedges are recognized directly in other comprehensive income until the hedged item is recognized in our consolidated income statement. For transactions that are not designated as hedges, any gains or losses arising from the changes in fair value are recognized directly to income for the period.

As at December 31, 2019 and 2018, we have taken into account the counterparties' credit risks and our own non-performance risk and have included a credit or debit valuation adjustment, as appropriate, by assessing the maximum credit exposure and taking into account market-based inputs which considers the risk of default occurring and corresponding losses once the default event occurs. The changes in counterparty credit risk had no material effect on the hedge effectiveness assessment for derivatives designated in hedge relationships and other financial instruments recognized at fair value.

The table below sets out the information about our consolidated derivative financial instruments as at December 31, 2019 and 2018:

	Original Notional Amount	Trade Date	Underlying Transaction in U.S. Dollar	Termination Date	Weighted Average Hedge Cost	Weighted Average Foreign Exchange Rate	2019		2018	
							Notional Amount	Net Mark-to-market Gains (Losses) in Php	Notional Amount	Net Mark-to-market Gains (Losses) in Php
	(in millions)		(in millions)				(in millions)			
<i>Transactions not designated as hedges:</i>										
PLDT										
Forward foreign exchange contracts	US\$114	Various dates in 2017 and 2018	U.S. Dollar Liabilities	Various dates in 2018	—	Php51.68	—	—	—	—
	US\$22	Various dates in 2019	U.S. Dollar Liabilities	Various dates in January 2020 to April 2020	—	Php51.48	US\$22	(12)	US\$34	(22)
	EUR9	Various dates in August 2018	EUR Assets	December 14, 2018	—	US\$1.17	—	—	—	—
	EUR11	Various dates in 2018	EUR Assets	December 14, 2018	—	Php62.95	—	—	—	—
	EUR5	Various dates in July and August 2019	EUR Assets	January 2020	—	Php58.65	EUR5	8	—	—
Foreign exchange options	EUR36 ^(a)	Various dates in 2018	EUR Assets	Various dates in November and December 2018	—	EUR1.161 EUR1.185	—	—	—	—
							(4)		(22)	

								2019	2018	
	Original Notional Amount (in millions)	Trade Date	Underlying Transaction in U.S. Dollar (in millions)	Termination Date	Weighted Average Hedge Cost	Weighted Average Foreign Exchange Rate	Notional Amount	Net Mark-to-market Gains (Losses) in Php (in millions)	Notional Amount	Net Mark-to-market Gains (Losses) in Php (in millions)
Smart										
Forward foreign exchange contracts	US\$120	Various dates in 2017 and 2018	U.S. Dollar Liabilities	Various dates in 2018	—	Php52.13	—	—	—	—
	US\$144	Various dates in 2018 and 2019	U.S. Dollar Liabilities	Various dates in 2019	—	Php52.73	—	—	US\$54	(38)
	US\$41	Various dates in 2019	U.S. Dollar Liabilities	Various dates in 2020	—	Php51.44	US\$41	(22)	—	—
	US\$16	Various dates in January and March 2020	U.S. Dollar Liabilities	Various dates in March and May 2020	—	Php50.79	—	—	—	—
Foreign exchange options ^(b)	US\$4	Various dates in 2017 and 2018	U.S. Dollar Liabilities	Various dates in 2018	—	Php50.64 Php51.58 Php52.48	—	—	—	—
PCEV										
Forward foreign exchange contracts	US\$22	Various dates in 2019	U.S. Dollar Cash Conversion	Various dates in 2019	—	Php52.24	—	—	—	—
								(22)		(38)
<i>Transactions designated as hedges:</i>										
PLDT										
Interest rate swaps ^(c)	US\$240	Various dates in 2013 and 2015	300 Term Loan	January 16, 2018	2.17%	—	—	—	—	—
	US\$100	August 2014	100 PNB	August 11, 2020	3.46%	—	US\$95	(6)	US\$96	55
	US\$50	September 2014	50 Metrobank	September 2, 2020	3.47%	—	US\$48	(5)	US\$48	25
	US\$150	April and June 2015	200 Term Loan	February 25, 2022	2.70%	—	US\$56	2	US\$79	66
Long-term currency swaps ^(d)	US\$140	October 2015 to June 2016	300 Term Loan	January 16, 2018	2.20%	Php46.67	—	—	—	—
	US\$4	January 2017	100 PNB	August 11, 2020	1.01%	Php49.79	US\$1	1	US\$2	7
	US\$6	April and June 2017	200 MUFG Bank, Ltd.	August 26, 2019	1.63%	Php49.51	—	—	US\$3	9
	US\$2	January 2018	200 MUFG Bank, Ltd.	August 26, 2019	1.59%	Php49.86	—	—	US\$1	3
	US\$6	February 2018	200 MUFG Bank, Ltd.	February 26, 2020	1.82%	Php51.27	US\$1	(2)	US\$5	6
	US\$22	November 2018 to June 2019	200 MUFG Bank, Ltd.	February 25, 2022	2.28%	Php52.08	US\$17	(30)	US\$11	17
								(40)		188
Smart										
Interest rate swaps ^(c)	US\$110	Various dates in 2013 and 2014	120 Term Loan	June 20, 2018	2.22%	—	—	—	—	—
	US\$85	Various dates in 2014 and 2015	100 Bank of Tokyo	March 7, 2019	2.23%	—	—	—	US\$10	3
	US\$50	October 2, 2014	50 Mizuho	May 14, 2019	2.58%	—	—	—	US\$5	2
	US\$200	Various dates in 2015	200 Mizuho	March 4, 2020	2.10%	—	US\$22	4	US\$67	52
	US\$30	February 2016	100 Mizuho	December 7, 2021	2.03%	—	US\$12	5	US\$18	24
Long-term currency swaps ^(d)	US\$100	Various dates in 2015	200 Mizuho	March 5, 2018	2.21%	Php46.66	—	—	—	—
	US\$45	Various dates in 2016	100 Mizuho	December 7, 2018	1.93%	Php46.55	—	—	—	—
	US\$11	Various dates in 2017	80 CBC	May 31, 2018	1.28%	Php49.66	—	—	—	—
	US\$18	Various dates in 2017, 2018 and 2019	100 Mizuho	December 7, 2020	1.77%	Php50.98	US\$9	(3)	US\$16	28
	US\$13	Various dates in 2018 and 2019	200 Mizuho	March 4, 2020	2.06%	Php51.93	US\$4	(6)	US\$9	6
	US\$6	February 2019	2015 Mizuho US\$100M	December 7, 2021	2.22%	Php51.83	US\$4	(5)	—	—
								(5)		115
								(71)		243

- (a) If the EUR to U.S. Dollar spot exchange rate on the fixing date settles below €1.161, PLDT will sell the EUR at €1.161. However, if on the fixing date, the exchange rate settles between the €1.161 and €1.185, there will be no settlement by PLDT, and if the exchange rate is above €1.185, PLDT will sell the EUR at €1.185.
- (b) If the Philippine Peso to U.S. Dollar spot exchange rate on the maturity date settles between Php51.58 to Php52.48, Smart will purchase the U.S. Dollar at Php51.58. However, if on maturity, the exchange rate settles above Php52.48, Smart will purchase the U.S. Dollar at Php51.58 plus the excess above Php52.48, and if the exchange rate is lower than Php51.58, Smart will purchase the U.S. Dollar at the prevailing Philippine Peso to U.S. Dollar spot exchange rate, subject to a floor of Php50.64.
- (c) PLDT's interest rate swap agreements outstanding as at December 31, 2019 and 2018 were designated as cash flow hedges, wherein the effective portion of the movements in fair value is recognized in our consolidated statements of other comprehensive income, while any ineffective portion is recognized immediately in our consolidated income statements. The mark-to-market loss amounting to Php11 million and mark-to-market gain amounting to Php129 million were recognized in our consolidated statements of other comprehensive income as at December 31, 2019 and 2018, respectively. Interest accrual on the interest rate swaps amounting to Php2 million and Php17 million were recorded as at December 31, 2019 and 2018, respectively. There were no ineffective portion in the fair value recognized in our consolidated income statements for the years ended December 31, 2019 and 2018.
- (d) PLDT's long-term principal only-currency swap agreements outstanding as at December 31, 2019 and 2018 were designated as cash flow hedges, wherein effective portion of the movements in the fair value is recognized in our consolidated statements of other comprehensive income, while any ineffective portion is recognized immediately in our consolidated income statements. The mark-to-market loss amounting to Php23 million and mark-to-market gain amounting to Php45 million were recognized in our consolidated statement of other comprehensive income as at December 31, 2019 and 2018, respectively. Hedge cost accrual on the long-term principal only-currency swaps amounting to Php7 million and Php3 million were recognized as at December 31, 2019 and 2018, respectively. The amounts recognized as other comprehensive income are transferred to profit or loss when the hedged loan is revalued for changes in the foreign exchange rate. The hedge cost portion of the movements in the fair value amounting to Php2 million and Php1 million were recognized in our consolidated income statements for the years ended December 31, 2019 and 2018, respectively.
- (e) Smart's interest rate swap agreements outstanding as at December 31, 2019 and 2018 were designated as cash flow hedges, wherein the effective portion of the movements in fair value is recognized in our consolidated statements of other comprehensive income, while any ineffective portion is recognized immediately in our consolidated income statements. The mark-to-market gains amounting to Php6 million and Php63 million were recognized in our consolidated statements of other comprehensive income as at December 31, 2019 and 2018, respectively. Reduction on interest arising from the interest rate swaps amounted to Php3 million and Php18 million as at December 31, 2019 and 2018, respectively. There were no ineffective portion in the fair value recognized in our consolidated income statements for the years ended December 31, 2019 and 2018.
- (f) Smart's long-term principal only-currency swap agreements outstanding as at December 31, 2019 and 2018 were designated as cash flow hedges, wherein the effective portion of the movements in fair value is recognized in our consolidated statements of other comprehensive income, while any ineffective portion is recognized immediately in our consolidated income statements. The mark-to-market loss amounting to Php12 million and mark-to-market gain amounting to Php50 million were recognized in our consolidated statements of other comprehensive income as at December 31, 2019 and 2018, respectively. Hedge cost accrual on the long-term principal only-currency swaps amounting to Php2 million and Php16 million were recognized as at December 31, 2019 and 2018, respectively. The amounts recognized as other comprehensive income are transferred to profit or loss when the hedged loan is revalued for changes in the foreign exchange rate. The hedge cost portions of the movements in the fair value amounting to Php1 million and Php2 million were recognized in our consolidated income statements for the years ended December 31, 2019 and 2018, respectively.

	2019	2018
	(in million pesos)	
Presented as:		
Noncurrent assets	1	140
Current assets	41	183
Noncurrent liabilities (Note 29)	(25)	—
Current liabilities (Note 29)	(88)	(80)
Net assets (liabilities)	(71)	243

Movements of our consolidated mark-to-market gains (losses) for the years ended December 31, 2019 and 2018 are summarized as follows:

	2019	2018
	(in million pesos)	
Net mark-to-market gains at beginning of the year	243	237
Effective portion recognized in the profit or loss for the cash flow hedges	14	27
Gains (losses) on derivative financial instruments (Note 4)	(233)	1,135
Net fair value losses on cash flow hedges charged to other comprehensive income	(330)	(286)
Settlements, interest expense and others	235	(870)
Net mark-to-market gains (losses) at end of the year	(71)	243

Our consolidated analysis of gains (losses) on derivative financial instruments for the years ended December 31, 2019, 2018 and 2017 are as follows:

	2019	2018	2017
	(in million pesos)		
Gains (losses) on derivative financial instruments (Note 4)	(233)	1,135	724
Hedge costs	(51)	(49)	(191)
Net gains (losses) on derivative financial instruments (Notes 4 and 5)	(284)	1,086	533

Financial Risk Management Objectives and Policies

The main risks arising from our financial instruments are liquidity risk, foreign currency exchange risk, interest rate risk and credit risk. The importance of managing those risks has significantly increased in light of the considerable change and volatility in both the Philippine and international financial markets. Our Board of Directors reviews and approves policies for managing each of these risks, which are summarized below. We also monitor the market price risk arising from all financial instruments.

Liquidity Risk

Our exposure to liquidity risk refers to the risk that our financial requirements, working capital requirements and planned capital expenditures will not be met.

We manage our liquidity profile to be able to finance our operations and capital expenditures, service our maturing debts and meet our other financial obligations. To cover our financing requirements, we use internally generated funds and proceeds from debt and equity issues and sales of certain assets.

As part of our liquidity risk management program, we regularly evaluate our projected and actual cash flows, including our loan maturity profiles, and continuously assess conditions in the financial markets for opportunities to pursue fund-raising initiatives. These activities may include bank loans, export credit agency-guaranteed facilities, debt capital and equity market issues.

Any excess funds are primarily invested in short-term and principal-protected bank products that provide flexibility of withdrawing the funds anytime. We also allocate a portion of our cash in longer tenor investments such as fixed income securities issued or guaranteed by the Republic of the Philippines, and Philippine banks and corporates and managed funds. We regularly evaluate available financial products and monitor market conditions for opportunities to enhance yields at acceptable risk levels. Our investments are also subject to certain restrictions contained in our debt covenants. Our funding arrangements are designed to keep an appropriate balance between equity and debt and to provide financing flexibility while enhancing our businesses.

Our cash position remains sufficient to support our planned capital expenditure requirements and service our debt and financing obligations; however, we may be required to finance a portion of our future capital expenditures from external financing sources. We have cash and cash equivalents, and short-term investments amounting to Php24,369 million and Php314 million, respectively, as at December 31, 2019, which we can use to meet our short-term liquidity needs. See *Note 16 – Cash and Cash Equivalents*.

The following table summarizes the maturity profile of our financial assets based on our consolidated undiscounted claims outstanding as at December 31, 2019 and 2018:

	Total	Less than 1 year	1-3 years	3-5 years	More than 5 years
(in million pesos)					
December 31, 2019					
<i>Financial instruments at amortized cost:</i>	<i>60,971</i>	<i>58,687</i>	<i>1,768</i>	<i>338</i>	<i>178</i>
Other financial assets	3,504	1,220	1,768	338	178
Debt instruments at amortized cost	150	150	—	—	—
Temporary cash investments	17,663	17,663	—	—	—
Short-term investments	314	314	—	—	—
Retail subscribers	17,178	17,178	—	—	—
Corporate subscribers	13,005	13,005	—	—	—
Foreign administrations	1,896	1,896	—	—	—
Domestic carriers	889	889	—	—	—
Dealers, agents and others	6,372	6,372	—	—	—
<i>Financial instruments at FVPL:</i>	<i>10,235</i>	<i>6,866</i>	<i>—</i>	<i>—</i>	<i>3,369</i>
Financial assets at fair value through profit or loss	3,369	—	—	—	3,369
Other financial assets	6,866	6,866	—	—	—
<i>Financial instruments at FVOCI:</i>	<i>2,919</i>	<i>2,757</i>	<i>162</i>	<i>—</i>	<i>—</i>
Financial assets at fair value through other comprehensive income	2,919	2,757	162	—	—
Total	74,125	68,310	1,930	338	3,547
December 31, 2018					
<i>Financial instruments at amortized cost:</i>	<i>90,232</i>	<i>87,526</i>	<i>2,190</i>	<i>349</i>	<i>167</i>
Other financial assets	2,686	130	2,040	349	167
Debt instruments at amortized cost	150	—	150	—	—
Temporary cash investments	45,672	45,672	—	—	—
Short-term investments	1,165	1,165	—	—	—
Retail subscribers	19,444	19,444	—	—	—
Corporate subscribers	11,073	11,073	—	—	—
Foreign administrations	4,225	4,225	—	—	—
Domestic carriers	270	270	—	—	—
Dealers, agents and others	5,547	5,547	—	—	—
<i>Financial instruments at FVPL:</i>	<i>11,596</i>	<i>6,833</i>	<i>—</i>	<i>—</i>	<i>4,763</i>
Financial assets at fair value through profit or loss	4,763	—	—	—	4,763
Other financial assets	6,833	6,833	—	—	—
<i>Financial instruments at FVOCI:</i>	<i>4,353</i>	<i>1,604</i>	<i>2,749</i>	<i>—</i>	<i>—</i>
Financial assets at fair value through other comprehensive income	4,353	1,604	2,749	—	—
Total	106,181	95,963	4,939	349	4,930

The following table summarizes the maturity profile of our financial liabilities based on our consolidated contractual undiscounted obligations outstanding as at December 31, 2019 and 2018:

	Payments Due by Period				
	Total	Less than 1 year	1-3 years	3-5 years	More than 5 years
(in million pesos)					
December 31, 2019					
<i>Debt</i> ⁽¹⁾ :	243,226	19,014	66,052	54,146	104,014
Principal	193,047	15,221	44,253	40,288	93,285
Interest	50,179	3,793	21,799	13,858	10,729
<i>Lease obligations</i>	25,465	10,458	6,879	4,401	3,727
<i>Various trade and other obligations:</i>	153,255	148,839	2,405	38	1,973
Suppliers and contractors	70,169	68,051	2,118	—	—
Utilities and related expenses	51,875	51,843	32	—	—
Employee benefits	8,673	8,673	—	—	—
Liability from redemption of preferred shares	7,851	7,851	—	—	—
Customers' deposits	2,205	—	194	38	1,973
Dividends	1,584	1,584	—	—	—
Carriers and other customers	1,387	1,387	—	—	—
Others	9,511	9,450	61	—	—
Total contractual obligations	468,699	188,062	90,082	73,380	117,175
December 31, 2018					
<i>Debt</i> ⁽¹⁾ :	218,791	13,892	72,007	51,098	81,794
Principal	176,694	13,292	49,747	41,401	72,254
Interest	42,097	600	22,260	9,697	9,540
<i>Lease obligations:</i>	22,674	12,727	4,066	2,616	3,265
<i>Operating lease</i>	22,674	12,727	4,066	2,616	3,265
<i>Various trade and other obligations:</i>	145,892	140,549	3,206	176	1,961
Suppliers and contractors	72,064	69,099	2,828	137	—
Utilities and related expenses	48,189	48,128	61	—	—
Employee benefits	7,955	7,955	—	—	—
Liability from redemption of preferred shares	7,862	7,862	—	—	—
Customers' deposits	2,194	—	194	39	1,961
Carriers and other customers	1,815	1,815	—	—	—
Dividends	1,533	1,533	—	—	—
Others	4,280	4,157	123	—	—
Total contractual obligations	387,357	167,168	79,279	53,890	87,020

⁽¹⁾ Consists of long-term debt, including current portion; gross of unamortized debt discount and debt issuance costs.

Debt

See Note 21 – Interest-bearing Financial Liabilities – Long-term Debt for a detailed discussion of our debt.

Our consolidated future minimum lease commitments payable with non-cancellable leases as at December 31, 2019 and 2018 are as follows:

	2019	2018
(in million pesos)		
Within one year	10,480	12,867
After one year but not more than five years	11,258	6,542
More than five years	3,727	3,265
Total	25,465	22,674

Various Trade and Other Obligations

PLDT Group has various obligations to suppliers for the acquisition of phone and network equipment, contractors for services rendered on various projects, foreign administrations and domestic carriers for the access charges, shareholders for unpaid dividends distributions, employees for benefits and other related obligations, and various business and operational related agreements. Total obligations under these various agreements amounted to approximately Php153,255 million and Php145,892 million as at December 31, 2019 and 2018, respectively. See *Note 23 – Accounts Payable* and *Note 24 – Accrued Expenses and Other Current Liabilities*.

Commercial Commitments

Our outstanding consolidated commercial commitments, in the form of letters of credit, amounted to nil and Php20 million as at December 31, 2019 and 2018, respectively. These commitments will expire within one year. See *Note 11 – Investments in Associates and Joint Ventures – Investments of PLDT in VTI, Bow Arken and Brightshare*.

Collateral

We have not made any pledges as collateral with respect to our financial liabilities as at December 31, 2019 and 2018.

Foreign Currency Exchange Risk

Foreign currency exchange risk is the risk that the fair value of future cash flows of a financial instrument will fluctuate because of changes in foreign exchange rates.

The revaluation of our foreign currency-denominated financial assets and liabilities as a result of the appreciation or depreciation of the Philippine Peso is recognized as foreign exchange gains or losses as at the end of the reporting period. The extent of foreign exchange gains or losses is largely dependent on the amount of foreign currency denominated financial assets and liabilities. While a certain percentage of our revenues are either linked to or denominated in U.S. Dollars, a substantial portion of our capital expenditures, a portion of our indebtedness and related interest expense and a portion of our operating expenses are denominated in foreign currencies, mostly in U.S. Dollars. As such, a strengthening or weakening of the Philippine Peso against the U.S. Dollar will decrease or increase in Philippine Peso terms both the principal amount of our foreign currency-denominated debts and the related interest expense, our foreign currency-denominated capital expenditures and operating expenses as well as our U.S. Dollar-linked and U.S. Dollar-denominated revenues. In addition, many of our financial ratios and other financial tests are affected by the movements in the Philippine Peso to U.S. Dollar exchange rate.

To manage our foreign exchange risks and to stabilize our cash flows in order to improve investment and cash flow planning, we enter into forward foreign exchange contracts, currency swap contracts, currency option contracts and other hedging products aimed at reducing and/or managing the adverse impact of changes in foreign exchange rates on our operating results and cash flows. Further details of the risk management strategy is recognized in our hedge designation documentation. We use forward foreign exchange purchase contracts, currency swap contracts and currency option contracts to manage the foreign currency risks associated with our foreign currency-denominated financial liabilities. We accounted for these instruments as either cash flow hedges, wherein changes in the fair value are recognized in our consolidated other comprehensive income until the hedged transaction affects our consolidated income statement or transactions not designated as hedges, wherein changes in the fair value are recognized directly as income or expense for the year.

The impact of the hedging instruments on our consolidated statements of financial position as at December 31, 2019 and 2018 are as follows:

	Notional Amount (U.S. Dollar)	Carrying Amount (Php)	Line item in our Consolidated Statements of Financial Position
(in million pesos)			
December 31, 2019			
Long-term currency swaps	37	1	Derivative financial assets – net of current portion
	—	3	Current portion of derivative financial assets
	—	(24)	Derivative financial liabilities – net of current portion
	—	(24)	Current portion of derivative financial liabilities
December 31, 2018			
Long-term currency swaps	46	83	Derivative financial assets – net of current portion
	—	13	Current portion of derivative financial assets

The impact of the hedged items on our consolidated statements of financial position as at December 31, 2019 and 2018 are as follows:

	2019		2018	
	Cash flow hedge reserve	Cost of hedging reserve	Cash flow hedge reserve	Cost of hedging reserve
(in million pesos)				
PLDT:				
US\$300M Term Loan	(273)	—	(273)	4
US\$100M PNB	(11)	—	(7)	—
US\$200M MUFG Bank, Ltd.	(48)	8	(3)	—
	(332)	8	(283)	4
Smart:				
US\$200M Mizuho	(12)	5	7	3
US\$100M Mizuho	(22)	12	43	13
	(34)	17	50	16

The effect of the cash flow hedge on our consolidated income statements and statements of other comprehensive income as at December 31, 2019 and 2018 are as follows:

	Total hedging loss recognized in OCI (in million pesos)	Line item in our Consolidated Income Statements
December 31, 2019		
Long-term currency swaps	(366)	Other comprehensive loss
December 31, 2018		
Long-term currency swaps	(234)	Other comprehensive loss

The following table shows our consolidated foreign currency-denominated monetary financial assets and liabilities and their Philippine Peso equivalents as at December 31, 2019 and 2018:

	2019		2018	
	U.S. Dollar	Php ⁽¹⁾	U.S. Dollar	Php ⁽²⁾
	(in millions)			
Noncurrent Financial Assets				
Derivative financial assets – net of current portion	—	1	3	140
Other financial assets – net of current portion	—	13	—	12
Total noncurrent financial assets	—	14	3	152
Current Financial Assets				
Cash and cash equivalents	122	6,181	717	37,688
Short-term investments	6	285	22	1,138
Trade and other receivables – net	777	39,472	261	13,741
Current portion of derivative financial assets	1	41	3	183
Current portion of other financial assets	—	11	—	11
Total current financial assets	906	45,990	1,003	52,761
Total Financial Assets	906	46,004	1,006	52,913
Noncurrent Financial Liabilities				
Interest-bearing financial liabilities – net of current portion	126	6,389	336	17,668
Derivative financial liabilities – net of current portion	—	25	—	—
Other noncurrent liabilities	—	15	—	12
Total noncurrent financial liabilities	126	6,429	336	17,680
Current Financial Liabilities				
Accounts payable	676	34,325	415	21,797
Accrued expenses and other current liabilities	208	10,555	170	8,961
Current portion of interest-bearing financial liabilities	210	10,687	110	5,780
Current portion of derivative financial liabilities	2	88	2	80
Total current financial liabilities	1,096	55,655	697	36,618
Total Financial Liabilities	1,222	62,084	1,033	54,298

⁽¹⁾ The exchange rate used to convert the U.S. Dollar amounts into Philippine Peso was Php50.80 to US\$1.00, the Philippine Peso-U.S. Dollar exchange rate as quoted through the Bankers Association of the Philippines as at December 31, 2019.

⁽²⁾ The exchange rate used to convert the U.S. Dollar amounts into Philippine Peso was Php52.56 to US\$1.00, the Philippine Peso-U.S. Dollar exchange rate as quoted through the Bankers Association of the Philippines as at December 31, 2018.

As at March 30, 2020, the Philippine Peso-U.S. Dollar exchange rate was Php51.04 to US\$1.00. Using this exchange rate, our consolidated net foreign currency-denominated financial liabilities would have increased in Philippine Peso terms by Php76 million as at December 31, 2019.

Approximately 9% and 13% of our total consolidated debts (net of consolidated debt discount) were denominated in U.S. Dollars as at December 31, 2019 and 2018, respectively. Our consolidated foreign currency-denominated debt decreased to Php17,029 million as at December 31, 2019 from Php23,352 million as at December 31, 2018. See Note 21 – *Interest-bearing Financial Liabilities*. The aggregate notional amount of our consolidated outstanding long-term principal only-currency swap contracts were US\$36 million and US\$47 million as at December 31, 2019 and 2018, respectively. Consequently, the unhedged portion of our consolidated debt amounts was approximately 8% (or 8%, net of our consolidated U.S. Dollar cash balances allocated for debt) and 12% (or 8%, net of our consolidated U.S. Dollar cash balances allocated for debt) as at December 31, 2019 and 2018, respectively.

Approximately 15% and 16% of our consolidated revenues were denominated in U.S. Dollars and/or were linked to U.S. Dollars for the years ended December 31, 2019 and 2018, respectively. Approximately 11% and 8% of our consolidated expenses were denominated in U.S. Dollars and/or linked to the U.S. Dollar for the years ended December 31, 2019 and 2018, respectively. In this respect, the higher weighted average exchange rate of the Philippine Peso against the U.S. Dollar increased our revenues and expenses, and consequently, affects our cash flow from operations in Philippine Peso terms. In view of the anticipated continued decline in dollar-denominated/dollar-linked revenues, which provide a natural hedge against our foreign currency exposure, we are progressively refinancing our dollar-denominated debts in Philippine Pesos.

The Philippine Peso appreciated by 3.35% against the U.S. Dollar to Php50.80 to US\$1.00 as at December 31, 2019 from Php52.56 to US\$1.00 as at December 31, 2018. As a result of our consolidated foreign exchange movements, as well as the amount of our consolidated outstanding net foreign currency financial assets and liabilities, we recognized net consolidated foreign exchange gain of Php408 million for the years ended December 31, 2019, while we recognized net consolidated foreign exchange losses of Php771 million and Php411 million for the years ended December 31, 2018 and 2017, respectively.

Management conducted a survey among our banks to determine the outlook of the Philippine Peso-U.S. Dollar exchange rate until March 31, 2020. Our outlook is that the Philippine Peso-U.S. Dollar exchange rate may weaken/strengthen by 0.59% as compared to the exchange rate of Php50.80 to US\$1.00 as at December 31, 2019. If the Philippine Peso-U.S. Dollar exchange rate had weakened/strengthened by 0.59% as at December 31, 2019, with all other variables held constant, consolidated profit after tax for the year 2019 and stockholders' equity as at year end 2019 would have been approximately Php62 million and Php58 million, respectively, lower/higher, mainly as a result of consolidated foreign exchange gains and losses on conversion of U.S. Dollar-denominated net assets/liabilities and mark-to-market valuation of derivative financial instruments.

Interest Rate Risk

Interest rate risk is the risk that the fair value or future cash flows of a financial instrument will fluctuate because of change in market interest rates.

Our exposure to the risk of changes in market interest rates relates primarily to our long-term debt obligations with floating interest rates.

Our policy is to manage interest cost through a mix of fixed and variable rate debts. We evaluate the fixed to floating ratio of our loans in line with movements of relevant interest rates in the financial markets. Based on our assessment, new financing will be priced either on a fixed or floating rate basis. We enter into interest rate swap agreements in order to manage our exposure to interest rate fluctuations. Further details of the risk management strategy is recognized in our hedge designation documentation. We make use of hedging instruments and structures solely for reducing or managing financial risk associated with our debt obligations and not for trading purposes.

The impact of the hedging instruments on our consolidated statements of financial position as at December 31, 2019 and 2018 are as follows:

	Notional Amount (U.S. Dollar)	Carrying Amount (Php)	Line item in our Consolidated Statements of Financial Position
(in million pesos)			
December 31, 2019			
Interest rate swaps	233	1	Derivative financial assets – net of current portion
	—	31	Current portion of derivative financial assets
	—	(1)	Derivative financial liabilities – net of current portion
	—	(31)	Current portion of derivative financial liabilities
	233	—	
December 31, 2018			
Interest rate swaps	323	57	Derivative financial assets – net of current portion
	—	170	Current portion of derivative financial assets
	323	227	

The impact of the hedged items on our consolidated statements of financial position as at December 31, 2019 and 2018 are as follows:

	2019		2018	
	Cash flow hedge reserve	Cost of hedging reserve	Cash flow hedge reserve	Cost of hedging reserve
	(in million pesos)			
PLDT:				
US\$100M PNB	(6)	—	50	—
US\$50M MBTC	(4)	—	24	—
US\$200M MUFG Bank, Ltd.	(1)	—	55	—
	(11)	—	129	—
Smart:				
2014 BTMU US\$100M	(1)	—	(6)	—
2014 Mizuho US\$50M	(1)	—	(2)	—
2015 Mizuho US\$200M	(36)	—	(11)	—
2015 Mizuho US\$100M	(19)	—	—	—
2013 Sumitomo US\$120M	—	—	(3)	—
	(57)	—	(22)	—

The effect of the cash flow hedge on our consolidated income statements and statements of other comprehensive income as at December 31, 2019 and 2018 are as follows:

	Total hedging gain (loss) recognized in OCI	Line item in our Consolidated Income Statements
	(in million pesos)	
December 31, 2019		
Interest rate swaps	(68)	Other comprehensive loss
December 31, 2018		
Interest rate swaps	179	Other comprehensive gain

The following tables set out the carrying amounts, by maturity, of our financial instruments that are expected to have exposure on interest rate risk as at December 31, 2019 and 2018. Financial instruments that are not subject to interest rate risk were not included in the table.

As at December 31, 2019

	In U.S. Dollars					Total	In Php	Discount/ Debt Issuance Cost In Php	Carrying Value In Php (in millions)	Fair Value	
	Below 1 year	1-2 years	2-3 years	3-5 years	Over 5 years					In U.S. Dollar	In Php
Assets:											
<i>Debt Instruments at Amortized Cost</i>											
Philippine Peso	3	—	—	—	—	3	150	—	150	3	150
Interest rate	4.8371%	—	—	—	—	—	—	—	—	—	—
<i>Cash in Bank</i>											
U.S. Dollar	31	—	—	—	—	31	1,586	—	1,586	31	1,586
Interest rate	0.0100% to 1.0000%	—	—	—	—	—	—	—	—	—	—
Philippine Peso	83	—	—	—	—	83	4,228	—	4,228	83	4,228
Interest rate	0.05000% to 1.2500%	—	—	—	—	—	—	—	—	—	—
Other Currencies	2	—	—	—	—	2	92	—	92	2	92
Interest rate	0.1000% to 0.5000%	—	—	—	—	—	—	—	—	—	—
<i>Temporary Cash Investments</i>											
U.S. Dollar	72	—	—	—	—	72	3,645	—	3,645	72	3,645
Interest rate	0.7000% to 4.7500%	—	—	—	—	—	—	—	—	—	—
Philippine Peso	276	—	—	—	—	276	14,018	—	14,018	276	14,018
Interest rate	0.1250% to 5.0000%	—	—	—	—	—	—	—	—	—	—
<i>Short-term Investments</i>											
Philippine Peso	1	—	—	—	—	1	29	—	29	1	29
Interest rate	1.5000% to 3.0000%	—	—	—	—	—	—	—	—	—	—
Other Currencies	6	—	—	—	—	6	285	—	285	6	285
Interest rate	0.0000%	—	—	—	—	—	—	—	—	—	—
	474	—	—	—	—	474	24,033	—	24,033	474	24,033
Liabilities:											
<i>Long-term Debt</i>											
Fixed Rate											
U.S. Dollar Fixed											
Loans	—	15	4	—	—	19	952	—	952	19	945
Interest rate	—	2.8850% to 2.8850%	2.8850% to 2.8850%	—	—	—	—	—	—	—	—
Philippine Peso	42	376	302	673	1,697	3,090	156,996	408	156,588	3,024	153,644
Interest rate	4.4850% to 5.5000%	3.9000% to 6.7339%	3.9000% to 6.7339%	3.9000% to 6.7339%	4.2500% to 6.7339%	—	—	—	—	—	—
Variable Rate											
U.S. Dollar Loans											
U.S. Dollar Loans	165	76	26	50	—	317	16,124	47	16,077	317	16,123
Interest rate	0.7900% to 1.4500% over LIBOR	0.7900% to 0.9500% over LIBOR	0.7900% to 0.9500% over LIBOR	1.0500% to 1.0500% over LIBOR	—	—	—	—	—	—	—
Philippine Peso	93	69	3	70	139	374	18,975	36	18,939	374	18,975
Interest rate	0.5000% to 1.0000% over PHP BVAL	0.5000% to 1.0000% over PHP BVAL	0.5000% to 0.6000% over PHP BVAL	0.5000% to 0.6000% over PHP BVAL	0.6000% to 0.6000% over PHP BVAL	—	—	—	—	—	—
	300	536	335	793	1,836	3,800	193,047	491	192,556	3,734	189,687

As at December 31, 2018

	In U.S. Dollars					Total	In Php	Discount/ Debt Issuance Cost In Php	Carrying Value In Php	Fair Value	
	Below 1 year	1-2 years	2-3 years	3-5 years	Over 5 years					In U.S. Dollar	In Php
(in millions)											
Assets:											
<i>Debt Instruments at Amortized Cost</i>											
Philippine Peso	—	3	—	—	—	3	150	—	150	3	148
Interest rate	—	4.8371%	—	—	—	—	—	—	—	—	—
<i>Cash in Bank</i>											
U.S. Dollar	30	—	—	—	—	30	1,580	—	1,580	30	1,580
Interest rate	0.0100% to 0.2500%	—	—	—	—	—	—	—	—	—	—
Philippine Peso	57	—	—	—	—	57	3,017	—	3,017	57	3,017
Interest rate	0.0500% to 1.2500%	—	—	—	—	—	—	—	—	—	—
Other Currencies	—	—	—	—	—	—	4	—	4	—	4
Interest rate	0.1000% to 0.5000%	—	—	—	—	—	—	—	—	—	—
<i>Temporary Cash Investments</i>											
U.S. Dollar	675	—	—	—	—	675	35,467	—	35,467	675	35,467
Interest rate	2.7000% to 3.0000%	—	—	—	—	—	—	—	—	—	—
Philippine Peso	194	—	—	—	—	194	10,204	—	10,204	194	10,204
Interest rate	0.2500% to 7.0500%	—	—	—	—	—	—	—	—	—	—
<i>Short-term Investments</i>											
U.S. Dollar	22	—	—	—	—	22	1,138	—	1,138	22	1,138
Interest rate	2.5000% to 3.0000%	—	—	—	—	—	—	—	—	—	—
Philippine Peso	1	—	—	—	—	1	27	—	27	1	27
Interest rate	3.5000%	—	—	—	—	—	—	—	—	—	—
	979	3	—	—	—	982	51,587	—	51,587	982	51,585
Liabilities:											
<i>Long-term Debt</i>											
<i>Fixed Rate</i>											
<i>U.S. Dollar Fixed</i>											
Loans	2	15	7	4	—	28	1,483	1	1,482	28	1,502
Interest rate	1.4100%	2.8850%	2.8850%	2.8850%	—	—	—	—	—	—	—
Philippine Peso	234	123	319	730	1,232	2,638	138,637	278	138,359	2,319	121,868
Interest rate	4.9110% to 5.6038%	3.9000% to 6.7339%	3.9000% to 6.7339%	3.9000% to 6.7339%	4.2500% to 6.7339%	—	—	—	—	—	—
<i>Variable Rate</i>											
U.S. Dollar Loans	17	286	38	52	25	418	21,964	94	21,870	418	21,965
Interest rate	0.9500% to 1.1000% over LIBOR	0.7900% to 1.4500% over LIBOR	0.7900% to 0.9500% over LIBOR	0.7900% to 1.0500% over LIBOR	1.0500% to 1.0500% over LIBOR	—	—	—	—	—	—
Philippine Peso	—	94	64	2	118	278	14,610	45	14,565	278	14,610
Interest rate*	—	0.5000% to 1.0000% over PHP BVAL	0.5000% to 1.0000% over PHP BVAL	0.5000% to 0.6000% over PHP BVAL	0.5000% to 0.6000% over PHP BVAL	—	—	—	—	—	—
	253	518	428	788	1,375	3,362	176,694	418	176,276	3,043	159,945

* Effective October 29, 2018, PHP BVAL Reference Rates replaced PDST Reference Rates (PDST-R1 and PDST-R2).

Fixed rate financial instruments are subject to fair value interest rate risk while floating rate financial instruments are subject to cash flow interest rate risk.

Repricing of floating rate financial instruments is mostly done on intervals of three months or six months. Interest on fixed rate financial instruments is fixed until maturity of the particular instrument.

Approximately 18% and 21% of our consolidated debts were variable rate debts as at December 31, 2019 and 2018, respectively. Our consolidated variable rate debt decreased to Php35,098 million as at December 31, 2019 from Php36,575 million as at December 31, 2018. Considering the aggregate notional amount of our consolidated outstanding long-term interest rate swap contracts of US\$233 million and US\$323 million as at December 31, 2019 and 2018, respectively, approximately 88% and 89% of our consolidated debts were fixed as at December 31, 2019 and 2018, respectively.

Management conducted a survey among our banks to determine the outlook of the U.S. Dollar and Philippine Peso interest rates until March 31, 2020. Our outlook is that the U.S. Dollar and Philippine Peso interest rates may both move 5 basis points, or bps, higher/lower each, as compared to levels as at December 31, 2019. If the U.S. Dollar interest rates had been 5 bps higher/lower as compared to market levels as at December 31, 2019, with all other variables held constant, consolidated profit after tax for the year 2019 and stockholders' equity as at year end 2019 would have been approximately Php74 thousand and Php1.9 million, respectively, lower/higher, mainly as a result of higher/lower interest expense on floating rate borrowings and loss/gain on derivative transactions. If the Philippine Peso interest rates had been 5 bps higher/lower as compared to market levels as at December 31, 2019, with all other variables held constant, consolidated profit after tax for the year 2019 and stockholders' equity as at year end 2019 would have been approximately Php74 thousand and Php327 thousand, respectively, lower/higher, mainly as a result of higher/lower interest expense on floating rate borrowings and loss/gain on derivative transactions.

Credit Risk

Credit risk is the risk that we will incur a loss arising from our customers, clients or counterparties that fail to discharge their contracted obligations. We manage and control credit risk by setting limits on the amount of risk we are willing to accept for individual counterparties and by monitoring exposures in relation to such limits.

We trade only with recognized and creditworthy third parties. It is our policy that all customers who wish to trade on credit terms are subject to credit verification procedures. In addition, receivable balances are monitored on an on-going basis to reduce our exposure to bad debts.

We established a credit quality review process to provide regular identification of changes in the creditworthiness of counterparties. Counterparty limits are established and reviewed periodically based on latest available financial data on our counterparties' credit ratings, capitalization, asset quality and liquidity. Our credit quality review process allows us to assess the potential loss as a result of the risks to which we are exposed and allow us to take corrective actions.

Maximum exposure to credit risk of financial assets not subject to impairment

The gross carrying amount of financial assets not subject to impairment also represents our maximum exposure to credit risk as at December 31, 2019 and 2018 are as follows:

	2019	2018
	(in million pesos)	
Financial assets at fair value through profit or loss (Note 12)	3,369	4,763
Derivative financial assets – net of current portion	1	140
Current portion of derivative financial assets	41	183
Total	3,411	5,086

Maximum exposure to credit risk of financial assets subject to impairment

The table below shows the maximum exposure to credit risk for the components of our consolidated statements of financial position, including derivative financial instruments as at December 31, 2019 and 2018. The maximum exposure is shown gross before both the effect of mitigation through use of master netting and collateral arrangements. The extent to which collateral and other credit enhancements mitigate the maximum exposure to credit risk is described in the footnotes to the table.

For financial assets recognized on our consolidated statements of financial position, the gross exposure to credit risk equal their carrying amount.

	2019			Total
	Stage 1 12-Month ECL	Stage 2 Lifetime ECL	Stage 3 Lifetime ECL	
	(in million pesos)			
High grade	29,241	9,228	—	38,469
Standard grade	1,710	6,224	—	7,934
Substandard grade	7	6,984	—	6,991
Default	298	1,763	15,141	17,202
Gross carrying amount	31,256	24,199	15,141	70,596
Less allowance	298	1,763	15,141	17,202
Carrying amount	30,958	22,436	—	53,394

	2018			Total
	Stage 1 12-Month ECL	Stage 2 Lifetime ECL	Stage 3 Lifetime ECL	
	(in million pesos)			
High grade	58,299	8,776	—	67,075
Standard grade	1,470	7,881	—	9,351
Substandard grade	3	7,399	—	7,402
Default	236	1,595	14,908	16,739
Gross carrying amount	60,008	25,651	14,908	100,567
Less allowance	236	1,595	14,908	16,739
Carrying amount	59,772	24,056	—	83,828

Maximum exposure to credit risk after collateral held or other credit enhancements

Collateral held as security for financial assets depends on the nature of the instrument. Debt investment securities are generally unsecured. Estimates of fair value are based on the value of collateral assessed at the time of borrowing and are regularly updated according to internal lending policies and regulatory guidelines. Generally, collateral is not held over loans and advances to us except for reverse repurchase agreements. Collateral usually is not held against investment securities, and no such collateral was held as at December 31, 2019 and 2018.

Our policies regarding obtaining collateral have not significantly changed during the reporting period and there has been no significant change in the overall quality of the collateral held by us during the year.

We have not identified significant risk concentrations arising from the nature, type or location of collateral and other credit enhancements held against our credit exposures.

An analysis of the maximum exposure to credit risk for the components of our consolidated statements of financial position, including derivative financial instruments as at December 31, 2019 and 2018:

	2019		
	Gross Maximum Exposure	Collateral and Other Credit Enhancements*	Net Maximum Exposure
	(in million pesos)		
<i>Financial instruments at amortized cost:</i>			
Other financial assets	3,206	—	3,206
Debt instruments at amortized cost	150	—	150
Cash and cash equivalents	24,369	184	24,185
Short-term investments	314	—	314
Retail subscribers	6,486	46	6,440
Corporate subscribers	8,403	331	8,072
Foreign administrations	1,519	—	1,519
Domestic carriers	799	—	799
Dealers, agents and others	5,229	—	5,229
<i>Financial instruments at FVPL:</i>			
Financial assets at FVPL	3,369	—	3,369
Other financial assets	6,866	—	6,866
Interest rate swap	31	—	31
Forward foreign exchange contracts	8	—	8
Currency swap	2	—	2
Long-term currency swap	1	—	1
<i>Financial instruments at FVOCI:</i>			
Financial assets at FVOCI	2,919	—	2,919
Total	63,671	561	63,110

* Includes bank insurance, security deposits and customer deposits. We have no collateral held as at December 31, 2019.

	2018		
	Gross Maximum Exposure	Collateral and Other Credit Enhancements*	Net Maximum Exposure
	(in million pesos)		
<i>Financial instruments at amortized cost:</i>			
Other financial assets	2,450	—	2,450
Debt instruments at amortized cost	150	—	150
Cash and cash equivalents	51,654	187	51,467
Short-term investments	1,165	—	1,165
Retail subscribers	9,620	55	9,565
Corporate subscribers	6,564	273	6,291
Foreign administrations	3,306	—	3,306
Domestic carriers	193	—	193
Dealers, agents and others	4,373	1	4,372
<i>Financial instruments at FVPL:</i>			
Financial assets at FVPL	4,763	—	4,763
Other financial assets	6,833	—	6,833
Interest rate swap	227	—	227
Long-term currency swap	83	—	83
Currency swap	13	—	13
<i>Financial instruments at FVOCI:</i>			
Financial assets at FVOCI:	4,353	—	4,353
Total	95,747	516	95,231

* Includes bank insurance, security deposits and customer deposits. We have no collateral held as at December 31, 2018.

The table below provides information regarding the credit quality by class of our financial assets according to our credit ratings of counterparties as at December 31, 2019 and 2018:

	Total	Neither past due nor credit impaired	Class B ⁽²⁾	Past due but not credit impaired	Impaired
	(in million pesos)				
December 31, 2019					
<i>Financial instruments at amortized cost:</i>	67,677	35,550	7,934	6,991	17,202
Other financial assets	3,504	1,747	1,452	7	298
Debt instruments at amortized cost	150	150	—	—	—
Cash and cash equivalents	24,369	24,111	258	—	—
Short-term investments	314	314	—	—	—
Retail subscribers	17,178	3,280	1,634	1,572	10,692
Corporate subscribers	13,005	3,652	2,041	2,710	4,602
Foreign administrations	1,896	460	414	645	377
Domestic carriers	889	374	40	385	90
Dealers, agents and others	6,372	1,462	2,095	1,672	1,143
<i>Financial instruments at FVPL:</i>	10,277	10,160	117	—	—
Financial assets at FVPL	3,369	3,252	117	—	—
Other financial assets	6,866	6,866	—	—	—
Interest rate swap	31	31	—	—	—
Forward foreign exchange contracts	8	8	—	—	—
Currency swap	2	2	—	—	—
Long-term currency swap	1	1	—	—	—
<i>Financial instruments at FVOCI:</i>	2,919	2,919	—	—	—
Financial assets at FVOCI:	2,919	2,919	—	—	—
Total	80,873	48,629	8,051	6,991	17,202

⁽¹⁾ This includes low risk and good paying customer accounts with no history of account treatment for a defined period and no overdue accounts as at report date; and deposits or placements to counterparties with good credit rating or bank standing financial review.

⁽²⁾ This includes medium risk and average paying customer accounts with no overdue accounts as at report date, and new customer accounts for which sufficient credit history has not been established; and deposits or placements to counterparties not classified as Class A.

	Total	Neither past due nor credit impaired	Class B ⁽²⁾	Past due but not credit impaired	Impaired
	(in million pesos)				
December 31, 2018					
<i>Financial instruments at amortized cost:</i>	96,214	62,722	9,351	7,402	16,739
Other financial assets	2,686	1,221	1,226	3	236
Debt instruments at amortized cost	150	150	—	—	—
Cash and cash equivalents	51,654	51,410	244	—	—
Short-term investments	1,165	1,165	—	—	—
Retail subscribers	19,444	4,125	3,577	1,918	9,824
Corporate subscribers	11,073	2,806	1,519	2,239	4,509
Foreign administrations	4,225	593	850	1,863	919
Domestic carriers	270	29	49	115	77
Dealers, agents and others	5,547	1,223	1,886	1,264	1,174
<i>Financial instruments at FVPL:</i>	11,919	11,806	113	—	—
Financial assets at FVPL	4,763	4,650	113	—	—
Other financial assets	6,833	6,833	—	—	—
Interest rate swap	227	227	—	—	—
Long-term currency swap	83	83	—	—	—
Currency swap	13	13	—	—	—
<i>Financial instruments at FVOCI:</i>	4,353	4,353	—	—	—
Financial assets at FVOCI:	4,353	4,353	—	—	—
Total	112,486	78,881	9,464	7,402	16,739

⁽¹⁾ This includes low risk and good paying customer accounts with no history of account treatment for a defined period and no overdue accounts as at report date; and deposits or placements to counterparties with good credit rating or bank standing financial review.

⁽²⁾ This includes medium risk and average paying customer accounts with no overdue accounts as at report date, and new customer accounts for which sufficient credit history has not been established; and deposits or placements to counterparties not classified as Class A.

The aging analysis of past due but not impaired class of financial assets as at December 31, 2019 and 2018 are as follows:

	Total	Neither past due nor credit impaired	Past due but not credit impaired			Impaired
			1-60 days	61-90 days	Over 91 days	
(in million pesos)						
December 31, 2019						
<i>Financial instruments at amortized cost:</i>	67,677	43,484	2,006	1,247	3,738	17,202
Other financial assets	3,504	3,199	—	—	7	298
Debt instruments at amortized cost	150	150	—	—	—	—
Cash and cash equivalents	24,369	24,369	—	—	—	—
Short-term investments	314	314	—	—	—	—
Retail subscribers	17,178	4,914	994	150	428	10,692
Corporate subscribers	13,005	5,693	720	770	1,220	4,602
Foreign administrations	1,896	874	41	26	578	377
Domestic carriers	889	414	102	240	43	90
Dealers, agents and others	6,372	3,557	149	61	1,462	1,143
<i>Financial instruments at FVPL:</i>	10,277	10,277	—	—	—	—
Financial assets at FVPL	3,369	3,369	—	—	—	—
Other financial assets	6,866	6,866	—	—	—	—
Interest rate swap	31	31	—	—	—	—
Forward foreign exchange contracts	8	8	—	—	—	—
Currency swap	2	2	—	—	—	—
Long-term currency swap	1	1	—	—	—	—
<i>Financial instruments at FVOCI:</i>	2,919	2,919	—	—	—	—
Financial assets at FVOCI:	2,919	2,919	—	—	—	—
Total	80,873	56,680	2,006	1,247	3,738	17,202
December 31, 2018						
<i>Financial instruments at amortized cost:</i>	96,214	72,073	3,262	398	3,742	16,739
Other financial assets	2,686	2,447	—	—	3	236
Debt instruments at amortized cost	150	150	—	—	—	—
Cash and cash equivalents	51,654	51,654	—	—	—	—
Short-term investments	1,165	1,165	—	—	—	—
Retail subscribers	19,444	7,702	1,747	62	109	9,824
Corporate subscribers	11,073	4,325	957	101	1,181	4,509
Foreign administrations	4,225	1,443	139	131	1,593	919
Domestic carriers	270	78	52	21	42	77
Dealers, agents and others	5,547	3,109	367	83	814	1,174
<i>Financial instruments at FVPL:</i>	11,919	11,919	—	—	—	—
Financial assets at FVPL	4,763	4,763	—	—	—	—
Other financial assets	6,833	6,833	—	—	—	—
Interest rate swap	227	227	—	—	—	—
Long-term currency swap	83	83	—	—	—	—
Currency swap	13	13	—	—	—	—
<i>Financial instruments at FVOCI:</i>	4,353	4,353	—	—	—	—
Financial assets at FVOCI:	4,353	4,353	—	—	—	—
Total	112,486	88,345	3,262	398	3,742	16,739

Capital Management Risk

We aim to achieve an optimal capital structure in pursuit of our business objectives which include maintaining healthy capital ratios and strong credit ratings, and maximizing shareholder value.

In recent years, our cash flow from operations has allowed us to substantially reduce debts and, in 2005, resume payment of dividends on common shares. Since 2005, our strong cash flow has enabled us to make investments in new areas and pay higher dividends.

Our approach to capital management focuses on balancing the allocation of cash and the incurrence of debt as we seek new investment opportunities for new businesses and growth areas. On August 5, 2014, the PLDT Board of Directors approved an amendment to our dividend policy, increasing the dividend payout rate to 75% from 70% of our core EPS as regular dividends, although we amended our dividend policy to reduce the regular dividend payout to 60% of core EPS in 2016. In declaring dividends, we take into consideration the interest of our shareholders, as well as our working capital, capital expenditures and debt servicing requirements. The retention of earnings may be necessary to meet the funding requirements of our business expansion and development programs.

However, in view of our elevated capital expenditures to build-out a robust, superior network to support the continued growth of data traffic, plans to invest in new adjacent businesses that will complement the current business and provide future sources of profits and dividends, and management of our cash and gearing levels, the PLDT Board of Directors approved on August 2, 2016, the amendment of our dividend policy, reducing the regular dividend payout to 60% of core EPS. As part of the dividend policy, in the event no investment opportunities arise, we may consider the option of returning additional cash to our shareholders in the form of special dividends or share buybacks. Philippine corporate regulations prescribe, however, that we can only pay out dividends or make capital distribution up to the amount of our unrestricted retained earnings.

Some of our debt instruments contain covenants that impose maximum leverage ratios. In addition, our credit ratings from the international credit ratings agencies are based on our ability to remain within certain leverage ratios.

No changes were made in our objectives, policies or processes for managing capital during the years ended December 31, 2019, 2018 and 2017.

29. Notes to the Statement of Cash Flows

The following table shows the changes in liabilities arising from financing activities for the years ended December 31, 2019, 2018 and 2017:

	January 1, 2019	Cash flows	Foreign exchange movement (in million pesos)	Others	December 31, 2019
Interest-bearing financial liabilities (Note 21)	176,276	16,811	(653)	122	192,556
Lease liabilities (Note 10)	15,233	(5,399)	—	6,481	16,315
Derivative financial liabilities	80	(50)	—	83	113
Accrued interests and other related costs (Note 24)	1,347	(7,143)	—	7,327	1,531
Dividends (Note 20)	1,533	(15,592)	—	15,643	1,584
	194,469	(11,373)	(653)	29,656	212,099

	January 1, 2018	Cash flows	Foreign exchange movement (in million pesos)	Others	December 31, 2018
Interest-bearing financial liabilities (Note 21)	172,611	1,722	1,723	220	176,276
Derivative financial liabilities	149	886	—	(955)	80
Accrued interests and other related costs (Note 24)	1,176	(6,614)	—	6,785	1,347
Dividends	1,575	(13,928)	—	13,886	1,533
	175,511	(17,934)	1,723	19,936	179,236

	January 1, 2017	Cash flows	Foreign exchange movement (in million pesos)	Others	December 31, 2017
Interest-bearing financial liabilities	185,032	(13,097)	417	259	172,611
Long-term financing for capital expenditures (Note 21)	13,673	(7,735)	—	(358)	5,580
Accrued interests and other related costs (Note 24)	1,412	(7,076)	—	6,840	1,176
Dividends (Note 20)	1,544	(16,617)	—	16,648	1,575
	201,661	(44,525)	417	23,389	180,942

Others include the effect of accretion of long-term borrowings, effect of recognition and accretion of lease liabilities, effect of accrued but not yet paid interest on interest-bearing loans and borrowings and accrual of dividends that were not yet paid at the end of the period.

Non-cash Investing Activities

The following table shows our significant non-cash investing activities and corresponding transaction amounts for the year ended December 31, 2019:

	(in million pesos)
Initial recognition of ROU assets (Notes 2 and 10)	14,226
Additions to ROU assets (Note 10)	5,072

Non-cash Financing Activities

The following table shows our significant non-cash financing activities and corresponding transaction amounts for the year ended December 31, 2019:

	(in million pesos)
Initial recognition of lease liabilities (Notes 2 and 10)	15,233
Additions to lease liabilities (Note 10)	5,065

INDEPENDENT AUDITOR'S REPORT ON SUPPLEMENTARY SCHEDULES

The Stockholders and Board of Directors
PLDT Inc.
Ramon Cojuangco Building
Makati Avenue, Makati City

We have audited in accordance with Philippine Standards on Auditing, the consolidated financial statements of PLDT Inc. and its subsidiaries as at December 31, 2019 and 2018, and each of the three years in the period ended December 31, 2019 included in this Form 17-A and have issued our report thereon dated March 31, 2020. Our audits were made for the purpose of forming an opinion on the basic financial statements taken as a whole. The schedules listed in the Index to the Consolidated Financial Statements and Supplementary Schedules are the responsibility of the Company's management. These schedules are presented for purposes of complying with the Revised Securities Regulation Code Rule 68, and are not part of the basic financial statements. These schedules have been subjected to the auditing procedures applied in the audit of the basic financial statements and, in our opinion, fairly state, in all material respects, the information required to be set forth therein in relation to the basic financial statements taken as a whole.

SYCIP GORRES VELAYO & CO.



Marydith C. Miguel
Partner

CPA Certificate No. 65556

SEC Accreditation No. 0087-AR-5 (Group A),
January 10, 2019, valid until January 9, 2022

Tax Identification No. 102-092-270

BIR Accreditation No. 08-001998-55-2018,
February 26, 2018, valid until February 25, 2021

PTR No. 8125270, January 7, 2020, Makati City

March 31, 2020



INDEPENDENT AUDITOR'S REPORT ON COMPONENTS OF FINANCIAL SOUNDNESS INDICATORS

The Stockholders and Board of Directors
PLDT Inc.
Ramon Cojuangco Building
Makati Avenue, Makati City

We have audited in accordance with Philippine Standards on Auditing, the consolidated financial statements of PLDT Inc. and its subsidiaries as at December 31, 2019 and 2018, and for each of the three years in the period ended December 31, 2019, and have issued our report thereon dated March 31, 2020. Our audits were made for the purpose of forming an opinion on the basic financial statements taken as a whole. The Supplementary Schedule on Financial Soundness Indicators, including their definitions, formulas, calculation, and their appropriateness or usefulness to the intended users, are the responsibility of the Company's management. These financial soundness indicators are not measures of operating performance defined by Philippine Financial Reporting Standards (PFRS) and may not be comparable to similarly titled measures presented by other companies. This schedule is presented for the purpose of complying with the Revised Securities Regulation Code Rule 68 issued by the Securities and Exchange Commission, and is not a required part of the basic financial statements prepared in accordance with PFRS. The components of these financial soundness indicators have been traced to the Company's financial statements as at December 31, 2019 and 2018 and for each of the three years in the period ended December 31, 2019 and no material exceptions were noted.

SYCIP GORRES VELAYO & CO.



Marydith C. Miguel
Partner
CPA Certificate No. 65556
SEC Accreditation No. 0087-AR-5 (Group A),
January 10, 2019, valid until January 9, 2022
Tax Identification No. 102-092-270
BIR Accreditation No. 08-001998-55-2018,
February 26, 2018, valid until February 25, 2021
PTR No. 8125270, January 7, 2020, Makati City

March 31, 2020



PLDT INC. AND SUBSIDIARIES

Schedule A. Financial Assets
December 31, 2019

Name of Issuing Entity and Association of Each Issue	Number of Shares	Amount Shown in the Balance Sheet	Valued Based on Market Quotation at Balance Sheet Date (In millions)	Income Received and Accrued
Financial assets at fair value through profit or loss				
Listed equity securities	various	Php2,746	Php-	Php-
Others	various	623	N/A	-
	-	Php3,369	N/A	Php-

PLDT INC. AND SUBSIDIARIES

Schedule C. Amounts Receivable from Related Parties which are eliminated during the Consolidation of Financial Statements

December 31, 2019

	December 31, 2018	Additions	Collections	December 31, 2019
	(in millions)			
ACeS Philippines Cellular Corporation	Php –	Php –	Php –	Php –
BayanTrade	2	5	(5)	2
Bonifacio Communications Corporation	5	308	(311)	2
Chikka Phils. Inc.,	1	–	(1)	–
CruzTelco (SBI-CC3)	–	–	–	–
Curo Teknika, Inc.	3	9	(11)	1
Datelco Global Communications, Inc.	–	–	–	–
Digital Telecommunications Phils., Inc.	25,260	2,203	(2,663)	24,800
Digitel Mobile Philippines, Inc.	–	14	–	14
eInnovations Holdings	–	–	–	–
ePay Investments Pte. Ltd.	–	–	–	–
ePDS, Inc.	6	3	(3)	6
ePLDT, Inc.	419	279	(283)	415
iCommerce Pte. Ltd.	1	–	(1)	–
I-Contacts Corporation	7	20	(25)	2
IP Converge Data Services, Inc.	3	73	(63)	13
Mabuhay Satellite Corporation	–	–	–	–
PLDT-Maratel, Inc.	74	38	(2)	110
Metro Kidapawan Telephone Corporation	–	2	(2)	–
Netgames, Inc.	–	–	–	–
Pacific Global One Aviation Co., Inc.	682	47	(1)	728
PayMaya Philippines, Inc.	–	–	–	–
PGNL Canada	–	–	–	–
PGNL (ROHQ) Phils.	89	24	–	113
PGNL US	–	–	–	–
Philcom Corporation	1,956	(1,891)	(7)	58
PLDT Inc.	1,256	4,986	(4,121)	2,121
Pilipinas Global Network Limited	–	–	–	–
PLDT (HK) Limited	5	–	–	5
PLDT (SG) Pte Ltd	–	–	–	–
PLDT SG Retail Service Pte Ltd.	–	–	–	–
PLDT (UK) Limited	–	–	–	–
PLDT (US) Limited	48	96	(100)	44
PLDT 1528 Unlimited	1	–	–	1
PLDT Capital Pte Ltd	–	–	–	–
PLDT-ClarkTel	47	(18)	(1)	28
PLDT Digital Investments Pte. Ltd.	77	157	(140)	94
PLDT Global (Phils.) Corporation	472	508	(292)	688
PLDT Global Corporation	684	532	(28)	1,188
PLDT Global Investments Holdings Inc	500	–	(500)	–
PLDT Malaysia Sdn Bhd	–	–	–	–
PLDT Online Investments Pte. Ltd	–	–	–	–
Primeworld Digital Systems, Inc.	–	–	–	–
Rack I.T. Data Center, Inc.	–	–	–	–
SmartBroadband, Inc.	3,433	301	(3,733)	1
Smart Communications, Inc.	12,269	8,611	(9,327)	11,553
PLDT Subic Telecom, Inc.	37	(15)	(7)	15
Talas Data Intelligence, Inc.	41	–	(41)	–
Voyager Innovations, Inc.	–	–	–	–
Wifun, Inc.	–	–	–	–
Wolfpac Mobile Inc.	–	–	–	–
	Php47,378	Php16,292	(Php21,668)	Php42,002

All receivables eliminated during the consolidation of financial statements are classified as current. There were no receivables written off during the year.

PLDT INC. AND SUBSIDIARIES

Schedule D. Interest-bearing Financial Liabilities

December 31, 2019

Name of Issuer and Type of Obligation	Total Outstanding Balance	Amount shown as Current		Amount shown as Non-Current	
		Gross Amount	Debt Discount/ Debt Issuance Cost	Gross Amount	Debt Discount/ Debt Issuance Cost
<i>U.S. Dollar Debts:</i>					
<i>Others:</i>					
BTMU US\$200M	Php3,797	Php1,524	(Php9)	Php2,286	(Php4)
Mizuho Corporate Bank Ltd. (Mizuho) \$200M	1,128	1,129	(1)	–	–
Philippine National Bank (PNB) US\$100M	4,826	4,826	–	–	–
Mizuho US\$100M	2,324	782	(11)	1,563	(10)
Metropolitan Bank & Trust Company (Metrobank) US\$50M	2,426	2,426	–	–	–
NTT Finance Corporation US\$25M	1,265	–	(1)	1,270	(4)
NTT Finance Corporation US\$25M (2017)	1,263	–	(2)	1,270	(5)
	17,029	10,687	(24)	6,389	(23)
<i>Philippine Peso Debts:</i>					
<i>Corporate Notes:</i>					
PLDT Fixed Rate Corporate Notes (2012) Php8.8B	3,599	39	–	3,560	–
PLDT Fixed Rate Corporate Notes (2012) Php6.2B	2,255	24	–	2,231	–
PLDT Fixed Rate Corporate Notes (2013) Php2.055B	298	3	–	295	–
	6,152	66	–	6,086	–
<i>Fixed Rate Retail Bonds:</i>					
Php15B Fixed Rate Retail Bonds	14,965	–	(24)	15,000	(11)
	14,965	–	(24)	15,000	(11)

Name of Issuer and Type of Obligation	Total Outstanding Balance	Amount shown as Current		Amount shown as Non-Current	
		Gross Amount	Debt Discount/ Debt Issuance Cost	Gross Amount	Debt Discount/ Debt Issuance
Term Loans:					
Unsecured Term Loans:					
Rizal Commercial Banking Corporation Php2B	Php1,940	Php20	Php-	Php1,920	Php-
Union Bank of the Philippines (Unionbank) Php1B	940	940	-	-	-
Philippine American Life and General Insurance (Philam Life) Php1B	1,000	-	-	1,000	-
Bank of the Philippine Islands (BPI) Php2B	1,880	1,880	-	-	-
Metrobank Php3B	1,199	1,200	(1)	-	-
BPI Php3B	2,818	2,820	(2)	-	-
Landbank Php3B	2,847	30	(3)	2,820	-
Landbank Php500M	475	5	-	470	-
Unionbank Php2B	1,900	20	-	1,880	-
Philam Life Php1.5B	1,500	-	-	1,500	-
BDO Unibank, Inc. (BDO) 500M	475	5	-	470	-
Philam Life Php1B	1,000	-	-	1,000	-
Landbank Php1B	950	10	-	940	-
Unionbank Php1.5B	1,425	15	-	1,410	-
BPI Php2B	1,920	20	-	1,900	-
BPI Php3B	2,880	30	-	2,850	-
Metrobank Php5B	4,800	50	-	4,750	-
Metrobank Php5B	4,785	50	(2)	4,750	(13)
BPI Php5B	4,784	50	(2)	4,750	(14)
Metrobank Php5B	4,784	50	(2)	4,750	(14)
Chinabank Php7B	5,593	700	(4)	4,900	(3)
Metrobank Php6B	5,804	60	(4)	5,760	(12)
BPI Php6.5B	6,286	65	(4)	6,240	(15)
BDO Php3B	2,910	30	-	2,880	-
BPI Php5.3B	5,125	53	(4)	5,088	(12)
Chinabank Php2.5B	2,250	250	-	2,000	-
Metrobank Php3B	2,929	30	(1)	2,910	(10)
Security Bank Corporation (Security Bank) Php8B	7,651	160	(4)	7,520	(25)
Landbank Php3.5B	3,417	35	(2)	3,395	(11)
Security Bank Php2B	1,950	20	-	1,930	-
Landbank Php3.5B	3,430	35	-	3,395	-
Security Bank Php2B	1,935	20	(2)	1,930	(13)
PNB Php1B	980	10	-	970	-
PNB Php1.5B	1,485	15	-	1,470	-
Landbank Php2B	1,980	20	-	1,960	-
Unionbank Php1B	990	10	-	980	-
BPI Php2B	1,969	20	(2)	1,960	(9)

Name of Issuer and Type of Obligation	Total Outstanding Balance	Amount shown as Current		Amount shown as Non-Current	
		Gross Amount	Debt Discount/ Debt Issuance Cost	Gross Amount	Debt Discount/ Debt Issuance
Development Bank of the Philippines Php1.5B	Php1,500	Php-	Php-	Php1,500	Php-
BPI Php3B	2,950	30	(2)	2,940	(18)
Landbank Php1.5B	1,485	15	-	1,470	-
Landbank Php2B	1,980	20	-	1,960	-
Landbank Php1B	990	10	-	980	-
BPI Php2B	1,980	20	-	1,960	-
PNB Php4B	3,972	40	(4)	3,960	(24)
DBP Php5B	4,978	-	(2)	5,000	(20)
Chinabank Php8B	7,942	-	(7)	8,000	(51)
DBP Php4B	3,970	-	(2)	4,000	(28)
UBP Php8B	7,978	80	(2)	7,920	(20)
Bank of China (BOC) Php2B	1,985	20	(2)	1,980	(13)
PNB Php2B	1,985	20	(2)	1,980	(13)
BPI Php4.5B	4,500	45	-	4,455	-
UBP Php5.4B	5,229	54	(3)	5,184	(6)
	154,410	9,082	(65)	145,737	(344)
Total Debt	Php192,556	Php19,835	(Php113)	Php173,212	(Php378)

PLDT INC.

Schedule E. Indebtedness to Affiliates and Related Parties (Long-Term Loans from Related Companies)

December 31, 2019

Name of Issuer and Type of Obligation	Total Outstanding Balance	Amount shown as Current		Amount shown as Non-Current	
		Gross Amount	Debt Discount/ Debt Issuance Cost	Gross Amount	Debt Discount/ Debt Issuance Cost
		(In Millions)			
NTT Finance Corporation US\$25M (2016)	Php1,265	Php-	(Php1)	Php1,270	(Php4)
NTT Finance Corporation US\$25M (2017)	1,263	-	(2)	1,270	(5)

PLDT INC.

Schedule G. Capital Stock

December 31, 2019

Title of Issue	Number of Shares Authorized	Number of Shares Issued And Outstanding	Number of Shares Reserved For Options, Warrants, Conversion and Other Rights	Number of Shares Held By Related Parties	Directors and Executive Officers ⁽¹⁾	Others
			(In Millions)			
Preferred Stock	538	450	–	450	–	–
Non-Voting Preferred Stock (Php10 par value)	388	300	–	300	–	–
Cumulative Convertible Series II to JJ	88	– ⁽²⁾		–	–	–
Cumulative Nonconvertible Series IV	300	300 ⁽³⁾		300 ⁽³⁾	–	–
Voting Preferred Stock(Php1 par value)	150	150		150	–	–
Common Stock (Php5 par value)	234	216	–	99 ⁽⁴⁾	1	116

⁽¹⁾ Consists of 1,298,586 common shares directly and indirectly owned by directors and executive officers as at February 29, 2020.

⁽²⁾ On June 8, 2015, the Company issued 870 shares of Series JJ 10% Cumulative Convertible Preferred Stock, which are currently outstanding. On January 28, 2020 the Board of Directors approved the redemption of PLDT's Series JJ 10% Cumulative Convertible Preferred Stock which were issued in the year 2014, effective May 12, 2020. In April 2011, the Company issued 370 shares of Series II 10% Cumulative Convertible Preferred Stock, all of which were redeemed by May 11, 2016.

⁽³⁾ Includes 300,000,000 shares subscribed for Php3,000,000,000, of which Php360,000,000 has been paid.

⁽⁴⁾ Represents 25.57% beneficial ownership of First Pacific Group and its Philippine affiliates, and 20.35% beneficial ownership of NTT Group in PLDT's outstanding shares.

PLDT INC.Schedule H. Reconciliation of Retained Earnings Available for Dividend Declaration
December 31, 2019

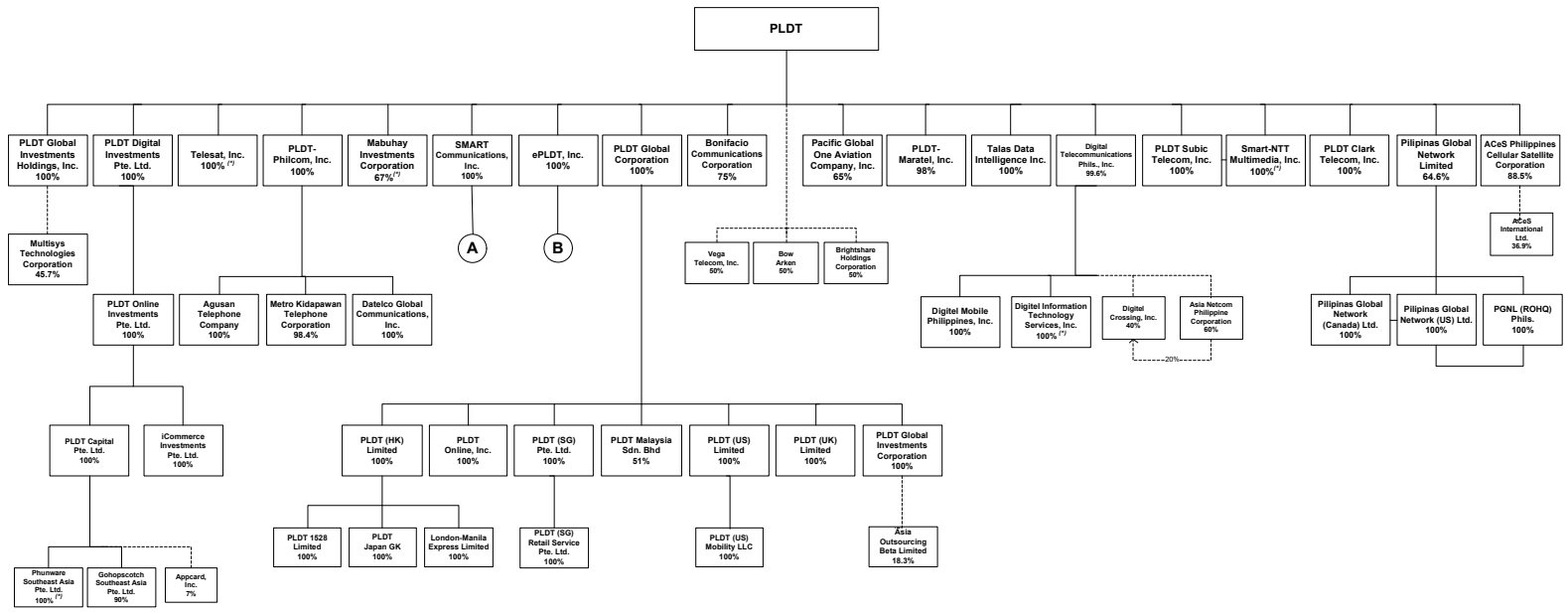
	(in million pesos)
Consolidated unappropriated retained earnings as at December 31, 2018 (as previously stated)	6,861
Effect of PAS 27, <i>Consolidated and Separate Financial Statements</i> , adjustments	25,692
Effect of adoption of PFRS 16	(136)
Parent Company's unappropriated retained earnings at beginning of the year (as restated)	32,417
Less: Cumulative unrealized income – net of tax:	
Unrealized foreign exchange gains – net (except those attributable to cash and cash equivalents)	(523)
Fair value adjustments of investment property resulting to gain	(888)
Fair value adjustments (market-to-market gains)	(3,440)
Parent Company's unappropriated retained earnings available for dividends as at January 1, 2019	27,566
Parent Company's net income for the year	18,381
Less: Fair value adjustment of investment property resulting to gain	(229)
Unrealized foreign exchange gains – net (except those attributable to cash and cash equivalents)	(473)
	17,679
Less: Cash dividends declared during the year	
Preferred stock	(59)
Common stock	(15,556)
	(15,615)
Parent Company's unappropriated retained earnings available for dividends as at December 31, 2019	29,630

As at December 31, 2019, our consolidated unappropriated retained earnings amounted to Php18,063 million while the Parent Company's unappropriated retained earnings amounted to Php35,182 million. The difference of Php17,119 million pertains to the effect of PAS 27 in our investments in subsidiaries, associates and joint ventures accounted for under equity method.

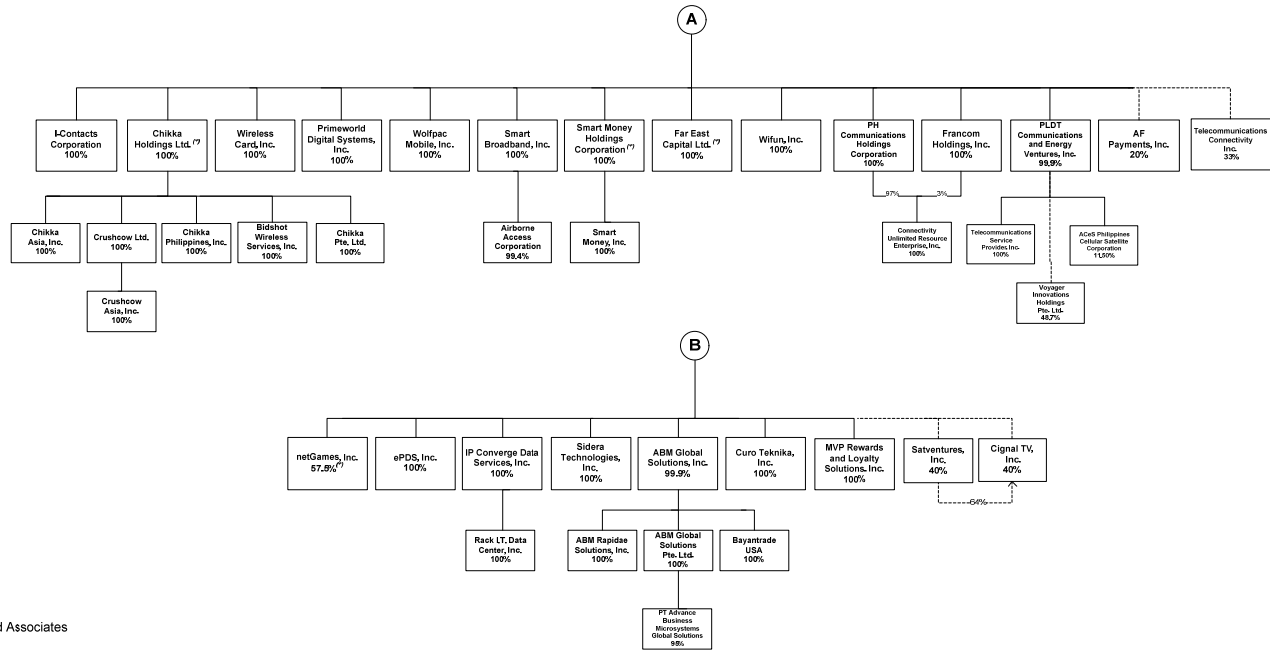
PLDT INC.

Schedule I. Map of the Relationships of the Companies within the Group

December 31, 2019



Legend:
 ----- Joint Ventures and Associates



Legend:
 Joint Ventures and Associates

¹⁾ Ceased commercial operations.

PLDT INC.
Schedule J. Financial Soundness Indicators
December 31, 2019 and 2018

	December 31,	
	2019	2018
Current Ratio ⁽¹⁾	0.37:1.0	0.52:1.0
Acid Test Ratio ⁽²⁾	0.23:1.0	0.40:1.0
Solvency Ratio ⁽³⁾	0.35:1.0	0.43:1.0
Net Debt to Equity Ratio ⁽⁴⁾	1.50:1.0	1.10:1.0
Net Debt to EBITDA Ratio ⁽⁵⁾	2.10:1.0	1.93:1.0
Total Debt to EBITDA Ratio ⁽⁶⁾	2.41:1.0	2.75:1.0
Asset to Equity Ratio ⁽⁷⁾	4.69:1.0	4.30:1.0
Interest Coverage Ratio ⁽⁸⁾	4.63:1.0	4.19:1.0
Profit Margin ⁽⁹⁾	13%	12%
Return on Assets ⁽¹⁰⁾	5%	4%
Return on Equity ⁽¹¹⁾	20%	17%
EBITDA Margin ⁽¹²⁾	49%	42%

(1) Current ratio is measured as current assets divided by current liabilities (including current portion – LTD, unearned revenues and mandatory tender option liability.)

(2) Acid test ratio is measured as total of cash and cash equivalent, short-term investments and trade and other receivables divided by total current liabilities.

(3) Solvency ratio is measured as adding back non-cash expenses to the net income after tax divided by total debt (long-term debt, including current portion.)

(4) Net Debt to equity ratio is measured as total debt (long-term debt, including current portion) less cash and cash equivalent and short-term investments divided by total equity attributable to equity holders of PLDT.

(5) Net Debt to EBITDA ratio is measured as total debt (long-term debt, including current portion) less cash and cash equivalent and short-term investments divided by EBITDA for the year.

(6) Total Debt to EBITDA ratio is measured as total debt (long-term debt, including current portion) divided by EBITDA for the year.

(7) Asset to equity ratio is measured as total assets divided by total equity attributable to equity holders of PLDT.

(8) Interest coverage ratio is measured by EBIT, or earnings before interest and taxes for the year, divided by total financing cost for the year.

(9) Profit margin is derived by dividing net income for the year with total revenues for the year.

(10) Return on assets is measured as net income for the year divided by average total assets.

(11) Return on Equity is measured as net income for the year divided by average total equity attributable to equity holders of PLDT.

(12) EBITDA margin for the year is measured as EBITDA divided by service revenues for the year.

EBITDA for the year is measured as net income for the year excluding depreciation and amortization, amortization of intangible assets, asset impairment on noncurrent assets, financing cost, interest income, equity share in net earnings (losses) of associated and joint ventures, foreign exchange gains (losses) – net, gains (losses) on derivative financial instruments – net, provision for (benefit from) income tax and other income (expenses) – net for the year.

SEC Number PW-55
File Number _____

PLDT INC.

(Company's Full Name)

**Ramon Cojuangco Building
Makati Avenue, Makati City**

(Company's Address)

(632) 8816-8534

(Telephone Number)

December 31st

(Fiscal Year Ending)
(month & day)

Sustainability Report

Report

December 31, 2019

Period Ended Date

June Cheryl A. Cabal-Revilla

(Highest Ranking Person responsible for this report)

SECURITIES AND EXCHANGE COMMISSION

SUSTAINABILITY REPORT

[PURSUANT TO MEMORANDUM CIRCULAR No. 4, SERIES OF 2019 OF THE SECURITIES AND EXCHANGE COMMISSION]

1. Name of Organization: **PLDT INC.**
2. Location of Headquarters: **Ramon Cojuangco Building, Makati Avenue, Makati City**
3. Location of Operations: **Nationwide**
4. Report Boundary: **Legal Entities (e.g. subsidiaries) included in this report: PLDT, ePLDT and Smart Communications Inc.**
5. Brand Model, including Primary Activities, Brands, Products, and Services:

PLDT is the leading telecommunications and digital services provider in the Philippines. Through our principal business groups – fixed line, wireless and others – PLDT offers a wide range of telecommunications and digital services across the Philippines’ most extensive fiber optic backbone, and fixed line and cellular networks.

PLDT HOME provides broadband and digital services.

PLDT Enterprise is PLDT’s corporate business group that provides a suite of innovative solutions catering to enterprises of all sizes. As an Information and Communications Technology (ICT) partner of major enterprises in the country, it also supports small- and medium-sized businesses that form the backbone of the Philippine economy.

Through PLDT Enterprise, clients can get the solutions for their digital communications needs — from internet, data networking, voice communication, and data center to solutions for mobility, managed ICT, cybersecurity, collaboration and productivity.

Through our wholly-owned subsidiary **ePLDT, Inc.**, the industry-leading provider of digital business solutions in the Philippines, PLDT has led the industry in the development of end-to-end technologies for enterprises across the country and the Asia Pacific region by delivering digital business solutions that are at par with global standards. These products and services include cloud, cyber security, purpose-built data center facilities and managed IT services.

ePLDT currently owns and operates the largest data center footprint in the country with ten facilities. The VITRO network of data centers have a total of 9,150 racks, powered by a combined 86 MVA total power capacity, serving the mission-critical operations of industry-leading organizations.

PLDT Global Enterprise, the Philippines’ principal ICT and digital services provider focuses on providing offshore businesses with customizable end-to-end industry solutions through its global network and Points-of-Presence (POPs) in key countries and cities.

PLDT Global provides telecommunications solutions and other relevant customer services to Filipinos offshore. With offices in the Philippines and Hong Kong, it is our full-fledged International Marketing, Sales and Operating Arm, offering a wide range of products and services, including those beyond telecommunications.

PLDT Group's wireless business is best known for brands owned by our wholly owned subsidiary, **Smart Communications Inc. (Smart)**. Through the Smart, TNT, and Sun brands, we serve approximately 94% of the country's cities and municipalities with our combined 2G, 3G, and 4G LTE network, providing mobile communications services, high-speed internet connectivity, and access to digital services and content to over 73 million subscribers as of end-2019.

Smart also offers satellite communication services under the brand Smart World. As part of PLDT's massive digital transformation program, Smart fulfilled our commitment to give more than 94% of the population access to our most advanced LTE network. Smart increased the number of our LTE or 4G base stations by 51% to about 24,600 and augmented the number of 3G base stations by 19% to 13,800.

6. Reporting Period: **for the year ending on December 31, 2019**
7. Highest Ranking Person responsible for report: **June Cheryl A. Cabal-Revilla**, Chief Sustainability Officer

TABLE OF CONTENTS

	Page
CERTAIN CONVENTIONS AND TERMS USED IN THIS SUSTAINABILITY REPORT	5
Item 1. Economic Performance	7
Direct Economic Value Generated and Distributed	7
Item 2. Climate-related risks and opportunities	9
Governance	9
Strategy	9
Risk Management	10
Metrics and Targets	11
Item 3. Procurement Practices	11
Proportion of spending on local suppliers	11
Item 4. Anti-corruption	12
Training on Anti-corruption Policies and Procedures	12
Incidents of Corruption	15
Item 5. Resource Management	17
Resource Management	17
Environmental Impact Management	23
Environmental Compliance	29
PART III – SOCIAL	31
Item 6. Employee Management	31
Employee Hiring and Benefits	31
Employee Training and Development	34
Collective Bargaining Agreements*	35
Diversity and Equal Opportunity	36
Item 7. Workplace Conditions, Labor Standards, and Human Rights	37
Occupational Health and Safety	37
Labor Laws and Human Rights	38
Supply Chain Management	39
Relationship with community	42
Customer Management	44
PART IV – UN SUSTAINABLE DEVELOPMENT GOALS	50
Item 7. Product or Service Contribution to UN SDGs	50

CERTAIN CONVENTIONS AND TERMS USED IN THIS SUSTAINABILITY REPORT

Unless the context indicates or otherwise requires, references to “company” “we,” “us,” “our” or “PLDT Group” in this sustainability report mean PLDT Inc. and its subsidiaries, Smart and ePLDT, and references to “PLDT” mean PLDT Inc., excluding subsidiaries.

Any discrepancies in any table between totals and the sums of the amounts listed are due to rounding.

In this sustainability report, each reference to:

- *Board of Directors* – the board of directors of PLDT Inc.
- *Fixed Line or Fixed* – fixed line telecommunications services primarily provided by PLDT. We also provide fixed line services such as data center, cloud, cyber security services, managed information technology services through PLDT’s subsidiary, ePLDT
- *Wireless* - mobile telecommunications services provided by Smart Communications, Inc., or Smart, and Digitel Mobile Philippines, Inc., or DMPI, our mobile service providers

MATERIALITY PRINCIPLE

We are collaborating with our stakeholders in order to strategize an effective sustainability roadmap. We have conducted materiality assessment workshops to identify the issues that are most important to our stakeholders and those that impact on their relationship with us. Both internal and external factors were considered and explored in these materiality assessment workshops.

The results from the workshops were presented to the Board of Directors, which concurred and confirmed the materiality of the identified topics and their significance to our operations and success.

Our Governance and Nomination Committee has been tasked by the Board of Directors to oversee PLDT’s fulfillment of our environmental, social, and governance (ESG) responsibilities.

Through this process, we have identified the top three material areas of focus where our efforts will make a difference:

- first is service access and network improvement, for which our goal is to achieve “internet for all”;
- second, innovations in products and services where initiatives are aligned with our three-year digital transformation;
- third, our resource efficiency and internal process management ensures that we are always on the look-out for more efficient tools and equipment and better ways of doing business.

Furthermore, we also found that stakeholders placed an importance on the purposeful leadership that our management provides for core services delivery.

Anchored on our vision and mission, we therefore made improvements to strategies that we had in 2018. We now have a more detailed framework, which is more closely aligned with the Philippine

Development Plan *Ambisyon Natin 2040* and the country's commitment to the United Nation's 2030 Agenda for Sustainable Development and the 17 Sustainable Development Goals.

From the top material areas of focus, we have expanded our Sustainability Pillars to seven categories of programs and practices:

Pillars of Sustainability

1. Quality of Service and Customer Experience
2. Growth-Driven Innovation
3. Responsible and Efficient Operations
4. Environmental Stewardship
5. Excellence through Human Capital
6. Positive Community Impact
7. Good Governance and Ethical Business Practices

PART I – ECONOMIC

Item 1. Economic Performance

Direct Economic Value Generated and Distributed

The following table summarizes our financial results of operations for the year ended December 31, 2019:

	Amount (in million Php)
Direct economic value generated (revenue)	171,134
Direct economic value distributed	109,371
Operating costs	54,504
Employee compensation and benefits	24,883
Payments to suppliers, other operating costs	**
Dividends to stockholders and interest payments on loans	22,735
Taxes given to government	6,667
Investments to community (donations, CSRs)	582

**Payments to suppliers amounting to Php 51,239 million are already part of the Operating Costs

Potential Impact and our Involvement in the Impact

Our ability to generate economic value for our stakeholders directly impacts our sustainability and growth. We must remain profitable and stable to maintain our workforce and our operations. The organizational units -- from the Board of Directors and management, to staff and frontline -- altogether are responsible, accountable, and work towards executing strategic plans to achieve the business goals and ensure sustainability for the long-term.

Affected Stakeholders

Shareholders, employees, customers, suppliers, communities are affected by our economic performance.

Our Management Approach

Strong corporate governance and bold leadership from the Board of Directors together with professional, responsible, and visionary management from our Management Committee build a strong values-based innovative corporate culture of high trust and high performance supported by employees.

We continue to invest in infrastructures, both hard and soft, and refer to the Pillars of Sustainability as guide for decision-making.

Policies are regularly reviewed and assessed to ensure they can support the ever-changing workplace and global markets.

Identified Risk/s, Affected Stakeholders, and our Management Approach

We operate in a complex and dynamic business environment which gives rise to a variety of challenges that can provide both risks and opportunities.

Among the usual business and market risks that affect our ability to sustainably generate economic value are: (i) operational risks; (ii) cybersecurity risks; (iii) risks from new technologies; (iv) risks from competition; (v) currency risks; (vi) regulatory risks; (vii) reputational risks; and (viii) climate-related risks.

The stakeholders that are affected are shareholders, employees, customers, suppliers, and communities.

Recognizing that these risks are an integral part of our business, we are committed to managing our overall risk exposure in a systematic way and in such a manner that supports our strategic decision-making process.

We employ a comprehensive, integrated risk management program, effected across all levels of our organization, with the goal of identifying, analyzing, and managing our risks to a reasonably acceptable level. This enhances opportunities, reduces risks, and sustains competitive advantage.

We believe that an effective risk management program will contribute to the attainment of objectives by PLDT and our subsidiaries, thus creating value for the business and our stakeholders.

Identified Opportunities, Benefited Stakeholders, and our Management Approach

The increasing application of new technologies in daily life such as cloud computing, the Internet of Things (IoT), and advanced wireless technologies, brings with it rapid technological advances and disruptive business models that have opened local and international market opportunities for us.

Considered an emerging economy, the Philippine market provides many opportunities for PLDT to contribute in providing inclusive services to bridge the digital divide across the country and across untapped segments of society.

With the shift from traditional telecoms services such as voice and text messaging to broadband data and digital services, PLDT and our subsidiaries and affiliates can do more to accomplish several key developmental goals that can benefit our shareholders, employees, customers, suppliers, and communities.

As we extend the reach of our fixed and mobile data networks to more parts of the country, we continue to bridge the existing geographic digital divide and help address social inequality in terms of providing high quality telecom service to all social classes.

We also recognize the need to protect vulnerable groups such as children in the digital world. We acknowledge our role in protecting children from abuses and risks that they may encounter online. We have partnered with the United Nations Children's Fund (UNICEF) to develop measures to help make Filipino children safe online. Under this partnership, we work with UNICEF in rolling out a multi-platform

campaign to educate children, youth, parents, educators and community partners on promoting child welfare and protection online.

We have also been working closely with our business partners, civil society advocates and government agencies on endeavors that raise awareness, shape policy and legislation, and enforce the rule of law towards the enhancement of child protection systems in the Philippines.

These activities are part and parcel of our core business. As we go further down the path of digital transformation, we shall be in a better position to provide a growing range of digital solutions that will have a lasting positive impact in the lives of Filipinos.

Item 2. Climate-related risks and opportunities

Governance

Through the Risk Committee, the Board reviews the effectiveness of our risk management. The review covers all types of risks, including climate-related risks.

Climate change increases the frequency and severity of weather-related disasters. The occurrences of natural disasters adversely affect our operations and financial conditions. To combat the adverse impact of climate change, we have signed up as a supporter of the Task Force on Climate-Related Financial Disclosures (TCFD), making us one of the first Philippine companies to do so.

We have established our Sustainability Office to ensure proper management of climate-related risks and opportunities.

From 2020 onwards, we plan to follow the TCFD recommendations to evaluate how climate change regulation may affect the prospects of our subsidiaries and other entities whose securities we hold; analyze how climate change affects the value of our investments and continue to plan our business strategies with various climate change scenarios in mind.

PLDT also implements a standardized Business Continuity Management System (BCMS) dedicated to improving organizational resilience through the protection of critical business functions which may be affected by climate change-related risks. Looking into this is the Enterprise Business Continuity and Resilience Office (BCRO), which was created under the office of our President and CEO to manage strategies and programs that would prepare PLDT to deal with various types of operational and business disruptions.

Strategy

Because of their frequency and impact, natural disasters brought about by climate change are considered a major enterprise risk. Management of this risk is given top priority. We have put efforts in strengthening our Business Continuity Plan (BCP) and formed the Crisis Management Plan in response to climate-related risk.

We therefore deemed it necessary to institutionalize a BCP that would help prepare a line of defense that would minimize impact and restore normal operations and service delivery as quickly and safely as possible after natural disasters.

The BCP aims to:

1. Adopt a unified policy and create a dedicated organization to manage BCMS across the PLDT Group
 - Develop and promulgate a single Business Continuity Policy establishing Group-wide resilience
 - Institutionalize business unit ownership of their respective roles in the Business Continuity Plan
2. Safeguard our interests by protecting our critical business functions against predetermined disruptions
 - Synergize BCPs across the PLDT Group for critical business functions in order to deliver high-quality and resilient telecommunication services
 - Institutionalize the Business Continuity Cycle PLDT Group-wide
3. Manage the program for an effective response that safeguards the interest of key stakeholders, reputation, brand, and value-creating activities
 - Equal priority on people, community, and shareholder value
 - Evolve from employee disaster preparedness to the more mature level of employee resilience
 - Support our effort to institutionalize BCM from both regulatory and commercial compliance and corporate resilience and competitiveness
4. Reiterate our CSR commitment as a critical infrastructure utility company that provides communication services during both regular and emergency situations.

Risk Management

Our Group Risk Management Department (GRMD) promulgates and encourages the adoption of a standard risk management process focused on the need to properly identify, analyze, evaluate, treat and monitor risks that may affect the achievement of business objectives. The implementation of the Enterprise Risk Management process ensures that critical risks are well understood and effectively managed across all our functions and units.

Our newly established Sustainability Office can assist the GRMD in assessing climate-related risks and in educating all of us on how to manage both climate-related risks and opportunities. As part of the TCFD commitment, we will expand our risk assessment to include regulatory risks and risks associated with the global transition to a low-carbon economy. We are anticipating that several governmental bodies are contemplating regulatory changes in response to the potential impacts of climate change. These regulatory moves, which could either be voluntary or mandatory, may impact our operations directly or indirectly through our suppliers or customers.

For now, we are considering national and local policies established to reduce energy-related greenhouse gas emissions in our long-term outlook for energy. We are using this as foundation for determining our business environment, strategies and investments.

Metrics and Targets

We rely on base stations, switches and data centers to provide service to our customers, and they represent a substantial part of our total greenhouse gas emissions. With our energy consumption rising as we embark on network rollout and as more of our operations move to the cloud, network operations have become a primary focus of our carbon reduction efforts and the adoption of our technology innovations and solutions towards our customers. Our initial target is to prepare for disruptions caused by natural disasters. This includes pre-planned failover testing of critical network systems. We have also been testing our Disaster Recovery plans and Emergency Response Teams (ERT).

Item 3. Procurement Practices

Proportion of spending on local suppliers

The following table shows the proportion of spending on local suppliers for the year ended December 31, 2019:

	Quantity
Percentage of procurement budget used for significant locations of operations that is spent on local suppliers	60%

Potential Impact and our Involvement in the Impact

Procurement practices impact our business operations and quality of service and offer areas of cost-efficiencies. Our leadership provides the direction and guidelines on procurement policies that are implemented in transparent processes and aims to deliver a high level of service quality for our customers.

Affected Stakeholders

Customers, employees, vendors, and suppliers are affected.

Our Management Approach

For both local and foreign vendors, we aspire to maintain mutually beneficial relationships only with like-minded suppliers that uphold our core values of fairness, accountability, integrity, and transparency in their businesses. Suppliers are therefore required to undergo an accreditation process before they engage in any activity with PLDT.

Other than financial and technical capabilities, criteria for accreditation include compliance with applicable laws, including those pertaining to industrial relations, environment, health and safety. The supplier qualification process requires each one to comply with statutory requirements. We then make our purchases based on competitive bidding among accredited and qualified suppliers.

Identified Risk/s, Affected Stakeholders, and our Management Approach

Disruption to our supply chain or diminution in the quality of equipment or vendor service will negatively impact the delivery and quality of service to our customers. When this happens, customers, employees, vendors and suppliers are affected.

Our Procurement Policy adopts the processes of vendor accreditation and competitive bidding as the general rule and establishes practices to ensure that contracts are awarded only to qualified and duly-accredited suppliers and vendors who offer the best value for money for our requirements.

Identified Opportunities, Benefited Stakeholders, and our Management Approach

Emerging technologies are generally proprietary and require time and suitable methodology for testing and piloting. Our management relies on market intelligence and insight based on data to make decisions on choosing which technologies to procure, and consequently the vendor to partner with. Our customers, employees, vendors, and suppliers are involved in this process.

Our current Procurement Policy seeks to maintain PLDT's reputation for equal opportunity and honest treatment of suppliers in all business transactions. Whether local or foreign, each offer is assessed based on objective criteria and our business goals. By establishing clear rules for transactions and fair treatment of prospective and existing suppliers, the policy helps us to find the proper solution and obtain the best value for money.

Item 4. Anti-corruption

Training on Anti-corruption Policies and Procedures

The following table shows the proportion of training on Anti-corruption Policies and Procedures ended December 31, 2019:

	Quantity
Percentage of employees to whom the organization's anti-corruption policies and procedures have been communicated to	99.97%
Percentage of business partners to whom the organization's anti-corruption policies and procedures have been communicated to	100.00%
Percentage of directors and management that have received anti-corruption training*	**
Percentage of employees that have received anti-corruption training	87.93%

Note: * - this pertains to directors only

***Since 2007, PLDT has been organizing an annual in-house training for its directors and officers referred to as the Annual Corporate Governance Enhancement Session (ACGES). Included among the topics covered in the ACGES are anti-corruption, anti-bribery and related topics such as the role of the Board of Directors in corporate ethics and compliance, business ethics and corporate culture, disclosure controls and procedures, insider trading, whistleblowing procedures, and accounting and transparency requirements. Consistent with the Code of Corporate Governance for Publicly-Listed Companies, this is complemented with corporate governance-related training that will ensure that directors and officers are continuously informed of developments in governance, business and regulatory environments, including emerging business trends and risks relevant to the Company. In 2014, the*

ACGES was conducted specifically on the topic “Corporate Governance Requirements under US Laws and Regulations and Foreign Corrupt Practices Act of 1977”. In 2019, the Company conducted a SEC-accredited ACGES for Directors and Officers attended by 9/13 of our directors. The ACGES topics approved by the SEC in 2019 were “5G Technology Strategy and Governance: Market Trends and New Business Applications, Risks and Challenges”; and “Cyber Security: Protecting Critical Business Infrastructure”. Three (3) of our directors who were unable to attend the ACGES attended other SEC-accredited corporate governance trainings. One of our directors, Mr. James L. Go, has been granted permanent exemption by the SEC from its corporate governance training requirement. In sum, 12/13 or 92% of our directors received annual continuing corporate governance training in 2019.

Potential Impact and our Involvement in the Impact

We are committed to provide relevant governance training, including, as necessary, training on the Company’s anti-corruption policies to its employees, officers, directors and advisory board members. Sustained training and education initiatives contribute toward cultivating a culture of compliance and good governance in the Company.

We conduct orientation, refresher courses and continuing online and onsite governance trainings that include discussion on our Code of Business Conduct and Ethics (“Code of Ethics”) and Policy on Gift-Giving Activities. For directors, advisory board members, and officers, an annual in-house corporate governance training seminar is organized by the Company in collaboration with other Philippine-based affiliate companies of First Pacific Company Ltd. on topics that are timely and relevant to the Companies and approved by the SEC.

Affected Stakeholders

Our directors, officers, and employees are duty bound to uphold the Company’s policies, including the Code of Ethics and Policy on Gift-Giving Activities. Likewise, vendors, suppliers, consultants and business partners who transact with the Company observe the same policies as part of contracts and engagements. As a Philippine company with shares listed in the Philippine Stock Exchange (PSE), and with American Depositary Receipts listed in the New York Stock Exchange (NYSE), the Company’s commitment to the observance of these policies inure to the benefit of customers, stockholders, regulators, and communities in which the Company operates, among other stakeholders.

Our Management Approach

To institutionalize in the Company a culture of compliance and good governance, communication and education initiatives are in place that familiarize employees, business partners and suppliers/contractors with our policies, including the Company’s Code of Ethics and Policy on Gift-Giving Activities.

Our Code of Ethics defines the Company’s corporate governance principles of integrity, accountability, transparency and fairness, which we observe in the conduct of our business. It sets the governance and ethical standards that shall govern and guide all our business relationships, directors, officers and employees. A copy of the Code of Ethics is available at: <http://pldt.com/docs/default-source/policies/pldt-code-of-business-conduct-and-ethics.pdf>.

The implementation of the Code of Ethics is reinforced by enabling policies such as the Conflict of Interest Policy, Supplier/Contractor Relations Policy, Expanded Whistleblowing Policy, Gifts,

Entertainment and Sponsored Travel Policy, and Policy on Gift-Giving Activities which, in conjunction with the Code of Ethics, embody the Company's anti-corruption policy.

Effective implementation of our anti-corruption policy involves the following:

- (a) provision of specific policy guidance, procedural safeguards and internal controls pertaining to the offering or giving of gifts which are prohibited or regulated by law;
- (b) policy implementation reinforced by related policies such as the Company's Corporate Governance Guidelines for Suppliers; as well as Company policies on Gifts, Entertainment and Sponsored Travel; Whistleblowing; Supplier/Contractor Relations; and Conflict of Interest; and
- (c) appropriate monitoring and preventive measures that include internal controls, training and communication programs, whistleblowing facilities, third party due diligence and enforcement mechanisms.

Identified Risk/s, Affected Stakeholders, and our Management Approach

As a Philippine company with its shares listed in both PSE and the NYSE, we follow applicable laws and rules of the Philippines and the United States. Education and communication to employees of the Company's policies, including the Code of Ethics and Policy on Gift Giving Activities build employee (i) awareness of the standards of behavior that is expected by the Company, and (ii) confidence in their ability to deliver the Company's commitments to its stakeholders.

To prevent the risk of an anti-corruption violation, in addition to education and communication initiatives, the Company has established internal control measures aimed at ensuring compliance with applicable laws, including those on anti-corruption. These internal control measures include SOX 404 Internal Control Standards in Accounting and Auditing; Guidelines in Handling Requests for Donation that provides a review and approval process for donations to ensure fairness and transparency; Gifts, Entertainment and Sponsored Travel Policy; Policy on our Gift-Giving Activities; and Third Party Due Diligence, including vendor management, accreditation and performance review; Corporate Governance Guidelines for Suppliers; anti-corruption and corporate governance provisions in procurement contracts; and suppliers' briefings on relevant Company policies.

In 2019, to supplement our good governance training, the Chief Governance Officer sent to officers, advisors, executives and consultants an Advisory on Gift-Giving and Anti-Corruption that was accompanied by communication on relevant compliance requirements and Company commitment to stakeholders to comply with relevant laws, consistent with our core principles and values.

Identified Opportunities, Benefited Stakeholders, and our Management Approach

Training and communication on good governance, including anti-corruption, provides opportunities for collaboration within our Company, among the various business units; and outside our Company, with affiliate companies, business partners, and suppliers and contractors, among others. Third party due diligence that is an integral part of anti-corruption prevention involves partnering with customers, suppliers, contractors, and employees in reporting violations of Company policies, applicable laws and regulations, including anti-bribery and anti-corruption. Close collaboration that ensures Company policies and initiatives are implemented contributes towards the cultivation of a culture of good governance and promotes the Company principles of integrity, accountability, transparency, and fairness.

Incidents of Corruption

The following table shows a summary of incidents of corruption for the reporting year ended December 31, 2019:

	Number of incidents
Number of incidents in which directors were removed or disciplined for corruption	0
Number of incidents in which employees were dismissed or disciplined for corruption	0
Number of incidents when contracts with business partners were terminated due to incidents of corruption	0

Potential Impact our Involvement in the Impact

As a Filipino company listed in both PSE and the NYSE, we abide by the applicable laws and regulations of the Philippines and the US, including those on anti-corruption. The Company principles of integrity, accountability, fairness, and transparency inform our business dealings and transactions, consistent with our Code of Ethics.

Affected Stakeholders

Our anti-corruption policy and initiatives are animated by our employees, agents and representatives. It is further adopted by our suppliers, contractors and business partners who have committed to the same principles and values. Our customers and the communities in which we operate benefit from efficiencies of service production and delivery that redound to the long-term viability of PLDT.

Our Management Approach

Our Code of Ethics sets out our business principles and values, which aim to promote a culture of good corporate governance. It describes our four core values of accountability, integrity, fairness and transparency and provides standards that govern and guide all our business relationships.

In order to promote compliance with law and rules, as well as Company policies, the Code of Ethics is communicated to employees and is provided to our business partners, suppliers, contractors and their agents and representatives. We reinforce its implementation by the following policies: Conflict of Interest Policy; Gifts, Entertainment and Sponsored Travel Policy; Policy on Gift-Giving Activities; Supplier/Contractor Relations Policy; and the Expanded Whistleblowing Policy.

Identified Risk/s, Affected Stakeholders, and our Management Approach

Incidents of corruption, if any, adversely affect the trust and confidence reposed in us by our customers and stakeholders. In addition to penalties imposed by law and regulations on errant companies, diminished trust in a brand in an age of intense market competition may lead to erosion of customer loyalty and loss of patronage that will affect Company performance over time.

Identified Opportunities, Benefited Stakeholders, and our Management Approach

Advances in technology, among other opportunities available to the Company, provide the benefit of extensive reach, varied approach, and real-time feedback that may be used to heighten employee awareness and involvement in the implementation of our policies and related initiatives. Periodic benchmarking with international standards and best practices provides insight into ways of continuously improving and updating our business practices in order to elevate the way we do business to the benefit of our customers, stockholders, and all other stakeholders.

PART II – ENVIRONMENT

Item 5. Resource Management

Resource Management

Energy Consumption*

The following table shows energy consumption within the organization for the year ended December 31, 2019:

	Quantity
Energy consumption (renewable sources)	Immaterial
Energy consumption (gasoline)	
1. Fixed	64,210 GJ
2. Wireless	21,807 GJ
Energy consumption (LPG)	N/A
Energy consumption (diesel)**	
1. Fixed	116,133 GJ
2. Wireless	372,050 GJ
Energy consumption (electricity)	
1. Fixed (<i>in millions</i>)	245.1 kWh
2. Wireless (<i>in millions</i>)	463.6 kWh

**genset and vehicle fuel

Reduction of energy consumption

The following table shows the reduction of energy consumption within the organization for the year ended December 31, 2019:

	Quantity
Energy reduction (renewable sources)	N/A
Energy reduction (LPG)	N/A
Energy reduction (diesel)	
1. Fixed	0 GJ
2. Wireless	0 GJ
Energy reduction (electricity) ¹	
1. Fixed	0 kWh
2. Wireless (<i>in millions</i>)	11.5 kWh
Energy reduction (gasoline) ¹	
1. Fixed	0 GJ
2. Wireless	2,274 GJ

¹ – compared to energy consumption in 2018

Potential Impact and our Involvement in the Impact

We recognize that energy is important for the continuous delivery of our services. We strive to use energy responsibly, and the task of managing energy consumption is shared by teams that are focused on long-term efficiencies of our business operations.

Our energy consumption covers all our fixed line and wireless facilities in the country, such as buildings, fixed network sites, exchanges, business offices, cell sites, warehouses, and Remote Digital Line Units/Digital Line Carriers.

We continue to seek for improved efficiencies through better technology and processes. We have put in place various energy conservation measures that generally focus on cooling equipment, efficient lighting, and rationalization of workplace areas for better energy planning. We have started exploring renewable energy options and are currently working with vendor partners, and plan to roll-out viable solutions in the future.

Affected Stakeholders

Employees, customers, communities, and government regulators are affected by our energy consumption and reduction.

Our Management Approach

Energy conservation and resource consumption efficiency are among the performance key result areas that are monitored and measured for long-term solutions. We are aware that to reduce our global greenhouse gas emissions, we need to invest in energy conservation projects in our operations and to work with our suppliers to improve energy efficiency. We have been experimenting on using renewable energy at some of our off-grid sites for several years now and will continue to do so in the next years. In this way, we intend to help stimulate the market for alternative power, resulting in extra generating capacity, ultimately leading to lower cost.

Our Network Operations' Energy Environment Safety and Health (EESH) and Property and Facilities Management (PFM) teams monitor the consumption of electricity, water, and fuel in major Fixed line and Wireless facilities. They also monitor greenhouse gas (GHG) emissions and chart ways to systematically reduce GHG factors throughout the organization.

Several energy conservation initiatives such as changing of busted fluorescent lamps with LED lights; use of more energy-efficient air-conditioning units, installation of new elevators, and replacement of old chillers were completed in 2019 that translated to almost 2M kWH saved.

Identified Risk/s, Affected Stakeholders, and our Management Approach

There is a great deal of uncertainty to the actual cost of being eco-friendly as some existing solutions may be costly and there is need to focus on long-term gains to justify their use now. It is clear, however, that inefficiencies in energy consumption affects overhead expenses and the cost of doing business, which, for a large organization such as the PLDT Group, can be a significant amount.

Employees and shareholders may be affected by this risk.

The Network EESH and PFM groups are tasked to monitor and implement improvements to processes and mechanisms that would reduce and mitigate impacts on the environment. Their challenge is to balance profitable operations with the commitment to integrating and implementing environmental considerations into all aspects of the business. A priority strategy is to choose new technological solutions such as more energy-efficient lighting and air-conditioning options as well as more fuel-efficient solutions, whenever possible.

We also strengthened our monitoring capabilities through the Risk Management and Compliance Division specifically equipped to oversee compliance with environmental, occupational, and safety regulations in all company facilities and operations.

Identified Opportunities, Benefited Stakeholders, and our Management Approach

As we have many offices and properties across the Philippines, there remains the opportunity to maximize the utility of digital solutions to promote less fuel-powered travel and more digital-enabled work interfaces. These initiatives form part of a carbon avoidance scheme and our employees, vendors, and suppliers stand to gain from this opportunity.

We actively encourage the use of digital workplaces with our use of FB@Work, digital town halls, Microsoft Teams for online meetings and OneDrive for data efficiency. In our operations, we look into process and flow improvements, equipment and energy optimization measures that result in cost savings. While these can be initially costly and time-consuming and may temporarily pose a threat to current stable processes, there are positive results for improving environmental sustainability.

Water Consumption

The following table shows the water consumption within the organization for the reporting year ended December 31, 2019:

	Quantity
Water withdrawal	
1. Fixed	<i>Negligible for 2019</i>
2. Wireless	<i>Negligible for 2019</i>
Water consumption	
1. Fixed	454,321 cubic meters
2. Wireless	108,670 cubic meters
Water recycled and reused	0 cubic meters

Potential Impact and our Involvement in the Impact

As a natural resource, we consider responsible water consumption as part of our drive for resource efficiency. We require water for both the upkeep of facilities and the comfort of employees in the workplace. As a large Philippine organization and employer, we can have a multiplier effect and spread positive influence over people's practice of responsible water consumption.

Affected Stakeholders

Employees and communities may be affected by water consumption impacts.

Our Management Approach

Water resource consumption efficiency is among the performance key result areas that are monitored and measured for long-term solutions. With this, PLDT Group's PFM and EEHS monitor the consumption of water in major fixed Line and wireless facilities, respectively.

Identified Risk/s, Affected Stakeholders, and our Management Approach

Insufficient water supply results in higher cost as operations is forced to find costly alternate sources. It also results in an uncomfortable work environment where cleanliness can be temporarily affected. Insufficient water supply also affects the ability of our workforce to come to work on schedule, as they would have to first secure water resources for their homes and their families. Employees and communities may be affected by water consumption risks.

To lessen this risk, we actively support government's water conservation campaigns. We also enter into partnerships to protect watersheds.

In partnership with key stakeholders such as the Department of Environment and Natural Resources (DENR), Philippine Business for Social Progress (PBSP), Multi-Sectoral Watershed Management Council, Inc. (MSWMC), and local governments, we help protect and rehabilitate key watersheds such as the Upper Marikina River Basin Protected Landscape (UMRBPL), Ipo Watershed and the Infanta-Real Quezon watershed forest reserve. Protection and rehabilitation of watersheds are important components to secure water sources for the communities.

Identified Opportunities, Benefited Stakeholders, and our Management Approach

Customers, employees, communities, government agencies and regulators, local governments, and industry partners will benefit from efforts that ensure continuous water consumption.

In 2019, our Sustainability Office launched our environmental stewardship program called *Gabay Kalikasan*. The program mobilizes our employees, executives, and top management to step up our environmental stewardship efforts anchored on our sustainability pillars.

Through *Gabay Kalikasan*, we are now working on linking with more institutional partners for the maintenance and protection of reforested lands and the reforestation of selected watersheds in the country. We will also continue supporting efforts to provide alternative livelihood, organize and empower community members and raise public awareness on the importance of watersheds.

Materials Used

The following table shows materials used within the organization for the reporting year ended December 31, 2019:

	Quantity
Materials used by weight of volume	
* Renewable	N/A
* non-renewable	N/A
Percentage of recycled input materials used to manufacture the organization's primary products and services	N/A

Potential Impact and our Involvement in the Impact

We are not in the business of manufacturing goods, as such, this aspect is not material nor applicable for reporting. Any and all electronic equipment and gadgets offered to subscribers are instead sourced from vendors who are certified and compliant with global standards and regulations.

Affected Stakeholders

Not applicable, see explanation above.

Our Management Approach

Not applicable, see explanation above.

Identified Risk/s, Affected Stakeholders and our Management Approach

Not applicable, see explanation above.

Identified Opportunities, Benefited Stakeholders, and our Management Approach

Not applicable, see explanation above.

Ecosystem and biodiversity (whether in upland/watershed or coastal/marine)

The following table shows materials used within the organization for the reporting year ended December 31, 2019:

	Quantity
Operational sites owned, leased, managed in, or adjacent to, protected areas and areas of high biodiversity value outside protected areas	33 cellsites
Habitats protected and restored	13 ha
IUCN Red list species and national conservation list species with habitats in areas affected by operations	None

Potential Impact, our Involvement in the Impact, Affected Stakeholders, and our Management Approach

A few of PLDT and Smart's critical infrastructures such as relay towers and cable landing stations are established in protected areas and in coastal settlements, affecting community residents and the local government units. In these sites, PLDT ensures strict compliance with environmental compliance certificates (ECC), environmental laws and local ordinances as well as regular engagement with the community to ensure that environmental commitments are followed through.

Identified Risk/s, Affected Stakeholders, and our Management Approach

Non-compliance with ECC conditions may threaten continued operations of critical infrastructure needed in running the business. Thus, we apply relevant construction, operational, and resource-use permits/clearances from national and local government agencies prior to site establishment and operation.

Our submarine cables are laid out at least two kilometers away from marine sanctuaries. Where possible, green buffer zones are also set up within and along the periphery of the telecommunication infrastructure to help attenuate noise levels, abate heat and absorb some pollutant emissions.

For residents affected by network facilities, the Social Development Program is implemented for the host barangays and affected communities covering livelihood training and employment. This also includes assistance in the setting-up of a social development welfare fund for health, education, credit, facilities/cooperatives that will ensure the participation of youth and women.

We also created a cross-functional team in 2019 that addresses issues related to the permits for our operating sites across the country. The team is dedicated to ensuring all permits are properly secured and renewed. As of 2019, we follow the DENR Environment Management Bureau's permitting requirements in Mindanao. We plan to accomplish the same for Luzon and the Visayas.

Identified Opportunities, Benefited Stakeholders, and our Management Approach

With the institutionalization of *Gabay Kalikasan*, environmental stewardship initiatives have moved beyond compliance. We boosted our efforts to conduct business in ways that protect future generations and the planet. Our customers, our children, our employees, and partners may benefit from this internal development.

We are taking a more collaborative approach to help create a more sustainable environment, in keeping with our commitment as signatory to the UN Global Compact. We have entered into a partnership with the University of the Philippines Marine Science Institute to adopt 24 marine protected areas (MPAs) in various parts of the country. The partnership aims to help develop activities to enhance the conservation of these MPAs. Moreover, it also provides scientific basis so that the enhanced MPAs will have the added benefit of helping fight climate change by acting as carbon sinks.

PLDT subsidiary, Smart, is also a pioneer connectivity partner for the Connected Mangroves and Rainforest Connection—two programs with key network vendors Ericsson and Huawei—that utilize IoT and Artificial Intelligence (AI) solutions to help guard and monitor mangroves and rainforests in the

Philippines. Our support for these initiatives underscores our commitment to environmental protection and sustainability.

Environmental Impact Management

Air Emissions

GHG*

	Quantity
Direct (Scope 1) GHG Emissions	
1. Fixed – Vehicles	10,950 Tonnes CO ₂ e
2. Wireless – Vehicles	4,991 Tonnes CO ₂ e
3. Fixed – Diesel Gensets	1,525 Tonnes CO ₂ e
4. Wireless – Diesel Gensets	22,626 Tonnes CO ₂ e
Energy indirect (Scope 2) GHG Emissions	
1. Fixed	146,557 Tonnes CO ₂ e
2. Wireless	277,215 Tonnes CO ₂ e
Emissions of ozone-depleting substances (ODS)	15,723 Tonnes CO ₂ e

Potential Impact, our Involvement in the Impact, and Affected Stakeholders

We maintain that our industry demonstrates the role that communications can play in lowering emissions in other sectors and industries. Many businesses, big and small, use PLDT technologies to cut waste and use energy much more efficiently.

Our business operations, however, necessitate the use of gasoline- and diesel-fueled equipment (Scope 1) and the purchase of energy (Scope 2) which produce emissions to the atmosphere. This adds to the country's overall emissions that generally affect our environs and those of neighboring regions. These emissions generally affect our customers, employees, general public, and regulators.

Our Management Approach

We have embarked on investments that will make internet services even more widespread and accessible than typical voice and text services that we have today. While this investment will lead to the building of new infrastructure, we plan to do so without significantly increasing our emissions. This requires replacement of network equipment with smaller, cost-efficient structures that consume less power and subsequently reduce carbon emission.

Identified Risk/s, Affected Stakeholders, and our Management Approach

We are undertaking efforts to make our growth, with our accompanying energy consumption and GHG emissions, sustainable. Increase in the atmospheric concentrations of GHG impacts global climate and is seen to produce a warming effect. If industries are not able to control their carbon footprint, more harmful climate events may affect operations and revenue. Our customers, employees, general public, and regulators are affected by these climate-related risks.

Our GHG emissions arise from several sources which include energy consumed by our network in operation, emissions associated with the deployment of our network equipment, emissions associated with buildings we run, and emissions from fleet transport. We are focused on finding collaborative solutions to address this impact by ensuring that we use energy-efficient networks and infrastructure support systems.

Identified Opportunities, Benefited Stakeholders, and our Management Approach

While our energy efficiency programs require significant capital investment as well as research and development, we intend to continue these and other environmentally conscious initiatives, including our active participation as a UN Global Compact member and a TCFD supporter. This may benefit our employees, customers and shareholders.

The principles encapsulated in the UNGC and the recommendations outlined in the TCFD will provide guidance for us in making improvements not only to reduce our energy consumption rate, but also the amount of greenhouse gases and other pollutants that our operations emit.

Initiatives that will allow us to do carbon offsets have also been initiated. Our *Gabay Kalikasan* partnerships with marine protected areas, the protection of rainforests and peatlands and our products and services' involvement in natural resource management will help counter our own GHG emissions. *Gabay Kalikasan* will promote more efficient networks, phones and processes and advocate to customers product features that will promote responsible, efficient and cost-effective and environment-friendly use.

Air Pollutants

	Quantity
NO _x	
1. Fixed	12.28 kg
2. Wireless	182.13 kg
SO _x	N/A
Persistent organic pollutants (POPs)	N/A
Volatile organic compounds (VOCs)	N/A
Hazardous air pollutants (HAPs)	N/A
Particulate matter (PM)	N/A

Potential Impact, our Involvement in the Impact, and Affected Stakeholders

Impacts of any pollutant are usually in the nearby area of the source. Usually, the source would be generator sets on our operational areas that emit smoke and produce noise. These are found in our offices, cellsites, and towers located in various parts of the country.

Our Management Approach

We are committed to implementing operational standards that establish clean and energy efficient operations in all our facilities. We are also looking at ways to invest in clean and renewable energies. Our PFM and EEHS teams regularly monitor the status and performance of facilities, equipment, and generator sets. Those identified to be performing lower than standards are subjected to maintenance procedures and could be replaced as necessary.

Identified Risk/s, Affected Stakeholders, and our Management Approach

Equipment that pollutes and performs below standards may cause us to be penalized by Regulators. Pollutants may also affect the Communities where we operate thus, we take steps to manage our environmental impact in a more responsible way.

Identified Opportunities, Benefited Stakeholders, and our Management Approach

With the institutionalization of the Sustainability Office and our flagship *Gabay Kalikasan* program, we were able to calculate our carbon footprint and launch a plan to improve energy efficiency.

With the assistance of internal partners who oversee facilities and network operations, the Sustainability Office will help craft programs to achieve our energy reduction goals. In order to reach areas without a reliable source of electricity, we have primarily used diesel generators for power. However, as concern about GHG emissions and our pollutants continue to rise, we have started to experiment with hybrid-powered and fuel-cell powered base stations in remote off-grid areas. We expect to have more of these initiatives in the coming years.

Solid and Hazardous Wastes

Solid Waste

	Quantity
Total solid waste generated	
1. Fixed	991.56 metric tons
2. Wireless	403.2 metric tons
Reusable	N/A
Recyclable	N/A
Metal	
1. Fixed	612.84 metric tons
2. Wireless	375.40 metric tons
Paper	
1. Fixed	30.38 metric tons
2. Wireless	6.50 metric tons
Plastic	
1. Fixed	348.34 metric tons
2. Wireless	21.30 metric tons
Composted	N/A
Incinerated	N/A
Residuals/Land-filled	N/A

Potential Impact, our Involvement in the Impact, and Affected Stakeholders

A small segment of materials we utilize are various consumables and supplies used in our offices and facilities and most are sourced locally. PLDT and Smart produce millions of outdoor advertising materials and marketing collaterals, which create a large amount of solid waste.

Solid wastes may affect employees, customers, and communities.

Our Management Approach

We continue to explore ways of expanding our Green Merchandising Program in line with our efforts to shift to eco-friendly solutions for a sustainable environment. Our merchandising teams have been using more eco-friendly materials in the production of outdoor ads. We send out calls for suppliers capable of producing such materials and require those same suppliers to back up their claims with studies and lab test results. We are also starting to invest in more permanent and practical materials to avoid wastage such as road and barangay signages, and bulletin boards for schools and barangay halls.

In 2019, *Gabay Kalikasan* introduced a homegrown innovation created by our employees, the #SmartPlanet reverse vending machine. The technology offers a novel way of recycling PET bottles and incentivizing those that surrender these PET bottles. #SmartPlanet bins also have a phone recycling version where discarded mobile devices are collected.

Identified Risk/s, Affected Stakeholders, and our Management Approach

As consumers begin to demand that businesses and industries be more accountable for their products' packaging, companies which do not address the concern on waste management may face backlash from consumers. As such, employees, customers, and communities may be affected.

A growing number of local government units are acting on solid waste management issues and proactively banning bad plastics and institutionalizing waste segregation programs. We are subject to relevant regulations and ordinances. For new infrastructure projects, we follow our solid waste management schemes as provided in the Environmental Management Plan.

Identified Opportunities, Benefited Stakeholders, and our Management Approach

Monitoring the amount of our solid waste has allowed us to improve waste management practices, optimize resource usage and introduce programs to influence the habits of our employees, suppliers, partners and our consumers.

We announced in December 2019 that we will ban single use plastic in all offices and operations effective from March 1, 2020 to cut down on plastic pollution. To prepare and encourage employees nationwide to the ban, *Gabay Kalikasan* launched a multi-channel campaign called Power Over Plastic prior to ban implementation. Educational materials were sent out discussing single-use plastic types, the many benefits of eliminating them, and eco-friendly alternatives. A refresher on waste segregation was also rolled out as well as an animated video that discussed bad plastics. The Power Over Plastic campaign emphasized employees' capability to go beyond comfort zones to practice sustainability. It has generated positive feedback and interest from employees in the PLDT Group.

Paperless transactions for office processes will also be campaigned both internally and externally to promote environmental sustainability. Use of digital platforms will also be the preference to cut down on paper waste, and promote automated document management system, paperless billing, and video campaigning. Our brands have recently come out with a *Rewind* video commercial detailing the journey of a printed billing statement. This will be pushed to the postpaid subscribers of both wireless and fixed line, to encourage them to opt for e-billings.

Hazardous Waste

	Quantity
Total weight of hazardous waste generated*	
Fixed	186 metric tons
Wireless	60 metric tons
Total weight of hazardous waste transported*	
Fixed	186 metric tons
Wireless	60 metric tons

*- waste batteries from our *Balik Bateriya* (battery recycling) program

Potential Impact, our Involvement in the Impact, and Affected Stakeholders

We recognize that the lifecycle of waste materials, and their impact, does not simply end in trash bins. Hazardous wastes, like batteries, need to be handled properly for the safety and health of people. Otherwise, employees and communities may be affected, and we may be penalized by the regulator.

Our Management Approach

Our PFM and EESH teams follow our environmental compliance guidelines for the identification, labelling, segregation, and proper handling and disposal of hazardous wastes, which are based on existing government regulations on hazardous waste management (RA 6969). Third party companies are also employed in the transport and disposal of hazardous wastes.

Identified Risk/s, Affected Stakeholders, and our Management Approach

Mistakes in handling hazardous wastes will pose a risk to the health and safety of our Employees and Communities. It will also expose us to penalties from Regulators.

We employ Pollution Control Officers (PCOs) who have enough technical training and background on environmental management, pollution abatement and environmental laws and regulations. These qualified personnel oversee monitoring our hazardous wastes and reporting these to the DENR.

PCOs actively promote our environmental awareness and pollution prevention and implement an effective environmental management system to ensure that we have no violations. PLDT has not received an environmental violation notice for hazardous waste in 2019.

Identified Opportunities, Benefited Stakeholders, and our Management Approach

We trade our Used Lead Acid Batteries (ULAB) to accredited recyclers for proper disposal. Past arrangements with battery vendor Motolite had them buying the used batteries, but agreement with them has ceased in 2019. Nevertheless, the Balik Baterya program with the PBSP still continues with ULABs disposed getting a trade-in value which is then used to fund educational projects. This battery recycling initiative may benefit employees, communities, and regulators.

The Sustainability Office also explored other solutions to minimize other hazardous waste. It recently launched the mobile phone recycling version of the #SmartPlanet bin. These bins are deployed during marketing campaigns to enable subscribers to surrender old phones and have them disposed of properly.

Effluents

	Quantity
Total volume of water discharges	N/A
Percentage of wastewater recycled	N/A

Potential Impact and our Involvement in the Impact

Effluents that are generated by our fixed line and wireless operations are municipal wastewaters and are sent to the third-party water utility for wastewater treatment. As such, this is not applicable to the PLDT Group's operations.

Affected Stakeholders

Not applicable, see reason above.

Our Management Approach

Not applicable, see reason above.

Identified Risk/s, Affected Stakeholders, and our Management Approach

Not applicable, see reason above.

Identified Opportunities, Affected Stakeholders, and our Management Approach

Not applicable, see reason above.

Environmental Compliance

Non-compliance with Environmental Laws and Regulations

The following table shows the information on PLDT's non-compliance with environmental laws and regulations:

	Quantity
Total amount of monetary fines for non-compliance with environmental laws and/or regulations	Php 0.00
Number of non-monetary sanctions for non-compliance with environmental laws and/or regulations	0
Number of cases resolved through dispute resolution mechanism	0

Potential Impact, our Involvement in the Impact, and Affected Stakeholders

We strive to follow sound corporate governance principles, government regulations, and best industry practices in all our operations. We develop and implement policies on pollution prevention and control, waste recycling and segregation, proper waste disposal, health and safety, and conservation of vital resources, knowing that inaction and non-compliance may damage the environment and compromise the public health of our employees and the rest of the community.

Our Management Approach

We follow a set of guidelines that establishes goals, implements programs, monitors technology and environmental management practices, evaluates progress, and continually improves environmental performance. It follows Our Environmental Compliance Policy which outlines how departments and business units handle waste disposal and environmental compliance.

Identified Risk/s, Affected Stakeholders, and our Management Approach

Our aim is to fully integrate environmental compliance into the business of providing high quality services and good customer experience. We have established environmental guidelines to help us work towards achieving this vision and we set expectations of environmental excellence throughout our supply chain. We demand environmental compliance from our contractors and vendors, and we subject them to penalties should they be found negligent or non-compliant in this area.

Our EEHS and PFM teams monitor regulatory changes in environmental laws and subsequently cascade these to business units whose activities create substantial impact on the environment.

Identified Opportunities, Affected Stakeholders, and our Management Approach

Striking a balance between affording our customers the benefits of high-quality communications solutions and the need to protect and enhance the environment is a challenge for us. We are dedicated in the observance of environmental laws and regulations, and where possible, we meet the commitments of the voluntary environmental programs in which we participate.

Our Company maintains a proactive engagement with the DENR to create special programs and processes to fast-track our compliance relating to Special Land Use Plan, Special Use Agreement in Protected Areas, and other necessary environmental permits. In 2019, we held several workshops with our network vendors and the DENR to actively promote compliance in our operations.

PART III – SOCIAL**Item 6. Employee Management****Employee Hiring and Benefits**

The following table shows the summary of employee data for Fixed line and Wireless operations for the reporting year ended December 31, 2019:

	Quantity
Total number of employees	
a. Number of female employees	
1. Fixed	3,397
2. Wireless	2,887
b. Number of male employees	
1. Fixed	7,754
2. Wireless	2,998
Attrition rate*	
1. Fixed	9%
2. Wireless	21%
Ratio of lowest paid employee against minimum wage	
a. Fixed	1.11
b. Wireless	1.02

**Voluntary manpower redundancy program accounts for attrition rate of 7% for Fixed and 10% for Wireless. For consistency with our SR publication in June, we used GRI's formula for the attrition rate:*

$$\frac{\text{Total number of employee turnover}}{\text{Total number of employees}} = \text{Attrition rate}$$

The following table shows the summary of employee benefits for Fixed line and Wireless operations for the reporting year ended December 31, 2019:

	Y/N	% of female employees who availed for the year		% of male employees who availed for the year	
		Fixed	Wireless	Fixed	Wireless
SSS	Y	19.44%	32.42%	12.08%	20.35%
PhilHealth	Y	0.35%	6.65%	0.39%	4.70%
Pag-ibig	Y	13.18%	16.52%	8.35%	9.41%
Parental leaves	Y	2.56%	4.88%	4.90%	8.68%
Vacation leaves	Y	64.10%	86.84%	48.85%	89.09%
Sick leaves	Y	13.24%	73.92%	10.41%	68.15%
Medical benefits (aside from PhilHealth)	Y	8.98%	0.00%	10.24%	0.00%
Housing assistance (aside from Pag-ibig)	Y	0.50%	1.21%	0.50%	1.80%
Retirement fund (aside from SSS)	Y	0.00%	14.13%	0.07%	11.04%
Further education support	Y	0.46%	1.04%	0.34%	0.93%
Share-based incentive plan	Y	7.90%	8.38%	5.28%	12.14%
Telecommuting	N/A	0.00%	0.00%	0.00%	0.00%
Flexible-working Hours	N/A	0.00%	0.00%	0.00%	0.00%

Potential Impact and our Involvement in the Impact

Employment and steady supply of talent are crucial to us as failure to hire the right people could slow down our achievement of short-term and long-term goals and strategies. Any corporate strategy to achieve growth and success would be useless if the need to add value to human capital is not addressed.

Our Management Approach

In 2019, our People Group focused on five strategic priorities which aimed to strengthen our role of being a strategic leader of business growth through human capital. The strategic priorities were: (1) Transformation Leadership; (2) Scaled Organization; (3) Aligned, Enabled and Engaged Workforce; (4) High Performance Organization; and (5) People Group Capability Building.

These strategic priorities aim to equip employees to compete and thrive in a rapidly changing and very competitive environment. Our People Group ensures that employment opportunities are geared towards development of employee skill sets through training, coaching, effective retention programs, multiple benefits and fair compensation.

We have established a Critical Talent Program dedicated to the business and leadership training of all PLDT and Smart executives, officers and key critical talents. Apart from standard management skills development course offerings, our current leadership development curriculum is anchored on newly defined leadership competencies expected of leaders for managing and leading in a digital environment.

Select leaders who exhibit exemplary skills are put on a special employee retention initiative called the Long-Term Incentive Plan. These special incentives add to the Provident or Retirement funds we provide to all of our organic employees.

To support our 'workplace of the future' objective, we enabled telecommuting facilities via Microsoft Teams (MS Teams) for employees, leading to productivity gains and enhanced communications among business units.

Identified Risk/s and our Management Approach

Employee retention is among the challenges that PLDT faced in 2019. It adds to the cost of the organization, disrupts the operation and affects overall productivity. Long-term employee retention needs a robust strategy to ensure that our employees have career advancement opportunity and high engagement rates.

To drive employee engagement, the People Group launched leadership town halls called "Dialogues" which were facilitated by our Top Management for PLDT and Smart Officers and Executives. The town halls were a mix of face-to-face and digital platforms, where company cascades are streamed live through our internal social media channel, Workplace by Facebook. Employees all over the country all had the opportunity to raise questions and concerns at these events and have them answered by company leaders in real-time.

To address employee turnover, we maintain a management succession program that identifies and develops high potential candidates. These talents are put in an accelerated growth path through targeted development programs, pivotal roles and stretched assignments. This will then be supplemented by executive coaching and mentoring from global experts for strategic capabilities.

Identified Opportunities and our Management Approach

Guided by our renewed focus on customer experience, the People Group embarked on a three-year talent transformation program. This started with the launch of new leadership standards that value customer centricity above all else. In the past year, the People Group rolled out talent reviews with key leaders to baseline our talent bench and agreed as a team on the strategy to improve the identified gaps on succession.

The People Group guided top management to look at non-traditional talent pools using data and insights and developed the Executive Development Pipeline program that brought a couple of global Filipinos back to the country. This initiative continues to improve our bench health.

To further boost the talent pipeline, three tracks of the Management Associate Program were launched where top graduates from local and global universities joined. This is a 12-month program that provides industry grounding, leadership fundamentals, social engagement activities and action-oriented domain learning.

In 2019, PLDT hired 3,211 employees while its wireless business recruited a total of 799 employees to drive customer experience optimization. These young, new corporate talents will play a role in the implementation of PLDT's transformation plans and strategies.

Employee Training and Development

The following table shows the summary of employee training and development conducted for the reporting year ended December 31, 2019:

	Quantity
Total training hours provided to employees	
a. Female employees	hours
1. Fixed	32,778
2. Wireless	23,939
b. Male employees	hours
1. Fixed	189,345
2. Wireless	41,726
Average training hours provided to employees	
a. Female employees	hours/employee
1. Fixed	9.65
2. Wireless	8.29
b. Male employees	hours/employee
1. Fixed	24.42
2. Wireless	13.92

Potential Impact, our Involvement in the Impact, and our Management Approach

We invest in the continuous learning and development of our people to help them grow in leadership and digital skills. The Learning and Development (L&D) team provides a mix of learning channels – from classroom sessions to online modules. The team offers in-house trainers and coaches, as well as specialists for gamified and online training.

Identified Risk/s and our Management Approach

How we develop our employees could impact PLDT's competitiveness. This is the reason why learning and development teams in People Group put efforts in creating comprehensive employee development plans. An ill-executed employee development strategy may lead to low performance and low leadership maturity, preventing our Company from expanding, innovating, and competing.

In 2019, a total of 9,363 employees have undergone trainings on various courses such as business, leadership, technical, and behavioral.

While our L&D beefed up employee trainings last year, there remained a higher training ratio for males versus females. This is due to the increased male recruitment for technical fields in 2019.

Identified Opportunities and our Management Approach

We continue to look for innovative learning channels to broaden our employees' range of skills and increase their knowledge base. In 2019, People Group launched a new cloud-based Digital Onboarding Portal for new hires called "ONEboarding", making Company information more accessible to new employees.

With the digital ONEBoarding program, the time for a new hire’s orientation was decreased significantly, from an average of two months to just 15 days. In two weeks, new hires were briefed on their core responsibilities, our products and services, important policies, and other relevant information.

We also launched an employee self-service platform called “ONE Hub”, where knowledge base articles are stored to answer any HR, IT, corporate services, and logistics-related employee query. In addition, self-paced learning will also be made available to key staff and executives through LinkedIn courses that enhance digital competencies.

Collective Bargaining Agreements*

The following table shows the summary of items under collective bargaining agreements for the reporting year ended December 31, 2019:

	Quantity
% of employees covered with Collective Bargaining Agreements	60%
Number of consultations conducted with employees concerning employee-related policies	224

*- this is only applicable to PLDT employees as it is the only organization that is unionized.

Potential Impact, our Involvement in the impact, and our Management Approach

We confirm our support to the Collective Bargaining Agreements (CBAs) signed with our three employee unions, which are the *Gabay ng Unyon sa Telekomunikasyon ng mga Superbisor (GUTS)*, *Manggagawa sa Komunikasyon ng Pilipinas (MKP)*, and *PLDT Sales Supervisors’ Union (PSSU)*. Reporting and handling grievances related to CBA matters are handled by first coursing through the concerned employee’s Union, then escalating to our Management and the respective Union’s Grievance Committee for due process.

There are three (3) stages under our grievance handling mechanisms, which are as follows:

Stage one involves a Plant-Level Hearing where the employee, or through the concerned employee’s Union, files the complaint to his Line Head/Line Executive. If the matter is not resolved, a written documentation to the effect must be made and signed by both the line head, the employee, and the employee’s Union.

Stage two is when the matter is elevated to the Joint Management and Union Grievance Committee for resolution. The Committee is composed of three representatives from Management and three representatives from the Union.

Stage three happens if it is not resolved at the second stage. The parties may opt to refer the matter to the Board of Arbitrators at the National Conciliation and Mediation Board of the Department of Labor and Employment.

Identified Risk/s and our Management Approach

Even with the mechanism in place for addressing grievances between our Unions and Management, there is still the possibility that the matter may be resolved at the third stage adversely against the Company, which would be detrimental to our operations.

We address these risks through a constructive and healthy relationship with our employees and Unions, making sure that all concerns are heard and addressed for the benefit of all parties involved.

Identified Opportunities and our Management Approach

We believe that an open communication with all stakeholders involved, which includes our employees and Unions, is key to our business success. Thus, we have an open communication to all personnel to hear out their needs and foster discussion on all levels to address current and potential problems in the workplace. We have started our collective bargaining negotiation with the GUTS for 2020-2022 CBA cycle in December 2019.

Our unions are also active in company sustainability initiatives. During the launch of *Gabay Kalikasan*, union leaders expressed support for the program through active involvement, saying that the advocacy transcends all interests and is important for their families and future generations.

Diversity and Equal Opportunity

The following table shows summary of employee diversity and equal opportunity information conducted for the reporting year ended December 31, 2019:

	% / Quantity
% of female workers in the workforce	
1. Fixed	30.46%
2. Wireless	49.06%
% of male workers in the workforce	
1. Fixed	69.54%
2. Wireless	50.94%
Number of employees from indigenous communities and/or vulnerable sector*	446

* *Vulnerable sector includes, elderly, persons with disabilities, vulnerable women, refugees, migrants, internally displaced persons, people living with HIV and other diseases, solo parents, and the poor or the base of the pyramid (BOP; Class D and E).*

Potential Impact, our Involvement in the Impact, and our Management Approach

We aspire for a work environment characterized by openness, trust and respect, and this is reflected in our non-discrimination policy in hiring. Employees are not chosen on the basis of gender, age, or if they belong to a particular sector. We believe that the organization needs to attract and develop an employee base that is reflective of the diversity of the communities in which it operates. Moreover, diversity allows us to better engage our employees, understand customers, and generate creative products and services.

Women are strongly represented in our workspace, especially at Smart, where men to women ratio is almost at parity. PLDT gender ratio in 2019 skewed to having more men in the workspace because the new recruitment in the technical department have more male than female workers

The 446 employees that are from the vulnerable sector are mostly solo parents. We support these employees through our Solo Parent Leave Policy, which provides for an additional seven (7) day leave as defined in Republic Act 8972 or the Solo Parent Welfare Act.

Identified Risk/s and our Management Approach

No specific risks identified for this reporting year.

Identified Opportunities and our Management Approach

With the launch of the Sustainability Pillar on *Excellence Through Human Capital*, we are looking forward to initiatives that promote diversity and equal opportunity among our employees.

Item 7. Workplace Conditions, Labor Standards, and Human Rights

Occupational Health and Safety

The following table shows a summary of information on occupational health and safety for the reporting year ended December 31, 2019:

	Quantity
Safe man-hours	
1. Fixed	3,159,239 manhours
2. Wireless	12,287,880 manhours
Number of work-related injuries	
1. Fixed	78
2. Wireless	17
Number of work-related fatalities	0
Number of work-related ill-health	0
Number of safety drills	143

Potential Impact and our Involvement in the Impact

The safety, health and wellness of employees remain a priority for us. Impaired working capacity lowers productivity and impacts the quality of customer service. Thus, it is important for us to help keep our people safe and healthy.

Our Management Approach

We see a healthy work environment as good business strategy to promote productivity, job satisfaction and motivation, and higher quality delivery of products and services. We offer the best health benefits in the industry, boasting of full medical coverage, wellness check-ups and regular physical activities for

our employees. We will continue to look for new ways to expand and improve the package for the benefit of our people. The “Workplace Wellness 360” Program offers various well-being initiatives on family life, financial stewardship, social advocacy, mental health, and fitness into an overall framework.

This belief in the value of health and safety guided us in establishing safety committees tasked to ensure that PLDT Quality, Environment, Health and Safety Policy standards are followed at all times. We also regularly submit a report to government authorities on work accident, illness exposure, medical data and general health and safety, and makes available adequate health facilities in our corporate offices to provide onsite medical support and wellness.

Identified Risk/s and our Management Approach

Constant review of relevant laws on occupational health and safety is made by our PFM and EESH teams who comprise the safety committees. The Philippine government came out with a new occupational health and safety law which now mandates stricter enforcement of proper workplace standards.

Following this development, we made a priority action to implement stricter OSH standards not only for our own employees, but also for contractors and sub-contractors. These standards are not to be compromised for any reason as we support the idea that people are at the center of sustainable development. We believe that ensuring a safe and healthy workplace ultimately benefits Communities and Families as they are dependent on the health and productivity of their working members.

Identified Opportunities and our Management Approach

We look at every opportunity to create a safer and healthier workplace. Under the *Gabay Kalikasan* program, we are experimenting on the use of the safest, low-energy, low-emission green network technology to attain the objective of a healthy and safe work environment.

Equally important for us are the personal well-being of employees as we believe that a healthy, productive and well-motivated workforce is a key agent for a healthy production of goods and services. In 2019, a synergized PLDT and Smart wellness program was launched in 2019 with over 2,200 participants. This included the first ever joint PLDT/Smart weight loss challenge, along with weekly wellness classes and online engagement activities.

Being a strong advocate of sports, we also trained and recognized our 227 employee athletes who represented PLDT and Smart in the 2019 MVP Olympics. Thirteen sports tournaments were also participated by over 1,000 employees. The first ever ONE Sportsfest regional tournament for PLDT and Smart employees also took place in 2019, engaging over 300 employees.

Labor Laws and Human Rights

The following table shows a summary of information on labor laws and human rights for the reporting year ended December 31, 2019:

	Quantity
Number of legal actions or employee grievances involving forced or child labor	0

Do you have policies that explicitly disallows violations of labor laws and human rights (e.g. harassment, bullying) in the workplace?

	Y/N	If yes, cite reference in the company policy
Forced labor	Y	Adherence to General Labor Standards (GLS)
Child labor	Y	Adherence to DOLE DO 174
Human rights	Y	Adherence to DOLE DO 174, GLS

Potential Impact, our Involvement in the Impact, and our Management Approach

Labor legislation, specific to forced labor, child labor and human rights, is essential to protect workers' rights and promote employee welfare. Evasion from compliance with such laws will prove to be detrimental in a company like PLDT, as there may be penalties from regulators and harsh castigation from employees, customers, and shareholders. As we firmly believe in the principles of human rights, we promote strict compliance to labor environmental standards set forth by laws and governmental rules and regulations, as well as internationally recognized principles on labor and human rights.

We have policies in support of government regulations on labor and human rights in the workplace such as DOLE Department Order 174 (Rules Implementing Articles 106 to 109 of the Labor Code, as Amended, R.A. 7610 (Protection against Child Abuse, Exploitation, Discrimination), and the General Labor Standards (GLS). Our People Group checks for compliance with these regulations.

Identified Risk/s identified and our Management Approach

No specific risks identified for this reporting year.

Identified Opportunities and our Management Approach

In 2019, we collaborated with UNICEF for the integration of children's rights and welfare into our business principles and processes. We sought guidance from the UN agency to craft child-safeguarding policies that cover various forms of our business engagements with our stakeholders within the workplace, marketplace and trade communities. We plan to implement these policies to ensure that we remain a child-friendly organization and that Company operations do not directly, nor potentially expose children to any risk of harm or abuse.

We also have been working closely with civil society groups and government agencies on undertakings that raise awareness, shape policy and legislation, and enforce the rule of law against online sexual abuse and exploitation of children.

Supply Chain Management

Do you have a supplier accreditation policy? If yes, please attach the policy or link to the policy:

Yes. PLDT Procurement Policy link [here](#). You may also access at <https://drive.google.com/open?id=1v2r-1sKGGKqknDzpQoMXRK5zTjknsnlyE>

Do you consider the following sustainability topics when accrediting suppliers?

	Y/N	If yes, cite reference in the company policy
Environmental performance		Page 22, PLDT Procurement Policy
Forced labor	Y	Page 22, PLDT Procurement Policy
Child labor	Y	Page 22, PLDT Procurement Policy
Human rights	Y	Page 22, PLDT Procurement Policy
Bribery and corruption	Y	Page 21, PLDT Procurement Policy

Potential Impact, our Involvement in the Impact, and our Management Approach

We aspire to integrate environmental responsibility into our business operations and corporate culture, starting with our suppliers. We require our suppliers and contractors to abide by our environmental policy and guidelines.

Moreover, we practice an ethical procurement process that protects our interests and our future. Through our Procurement Policy released in 2016, we articulate our Supply Chain Management processes which adhere to our overarching sustainability strategy. Noncompliance to these policies and procedures may lead to negative impact in our engagements with the government, partners, shareholders, and our customers.

PLDT Procurement manages the development and implementation of strategies involving supply chain planning & procurement management within the categories of our spend and logistics. They are in charge of:

- a. Developing and communicating sourcing strategies and directions to create synergies that would enhance efficiencies and maximize total cost of ownership savings in the delivery of supply chain and procurement services resulting to value realization
- b. Collaborating with our business units to identify requirements, specifications and forecast, participating in annual budgeting process, and providing inputs from a supply chain category perspective based on planned sourcing initiatives
- c. Ensuring implementation of supply chain solutions and strategies within the area of procurement operations, supply chain planning, and supply chain performance and risk management, and;
- d. Collaborating with suppliers and managing supplier relationships to acquire resources that best fit the business requirements at the most reasonable price.

Identified Risk/s and our Management Approach

Managing contractor and supplier risks related to compliance is important for us. Thus, we mandate a Supplier-Contractor Relations Policy that outlines our commitment to equal opportunity and honest treatment of suppliers in all business transactions, as well as direct company personnel to disclose any irregular and unethical conduct of suppliers. Augmenting this are company regulations on anti-corruption and Code of Ethics which help create a culture of good governance overall.

Identified Opportunities and our Management Approach

Through the newly established Sustainability Office, we encourage suppliers and vendors to manage their sustainability impacts, which comprise of economic, social, and environmental aspects. We advocate that promoting sustainability in suppliers' and vendors' operations can bring opportunities to reduce our waste and cost, improve our product and service quality, spur innovation growth and tap consumer interest in sustainable products.

We also plan to add the concepts of sustainability to the fundamental supply chain requirements of competitive quality, cost, service, and delivery. We will also plan to develop credible sustainability assessments that will help incentivize suppliers and vendors for innovative, affordable and eco-friendly products and services.

Relationship with community

Significant Impacts on Local Communities

Operations with significant (positive or negative) impacts on local communities (exclude CSR projects; this has to be business operations)	Location	Vulnerable groups (if applicable) *	Does the particular operation have impacts on indigenous people (Y/N)?	Collective or individual rights that have been identified that or particular concern for the community	Mitigating measures (if negative) or enhancement measures (if positive)
Cable landing stations in coastal communities	Daet	Fisherfolk	N	<ol style="list-style-type: none"> 1. Low fish catch during cable laying 2. Noise pollution of gensets 3. Educational support for the children 	<ol style="list-style-type: none"> 1. Mangrove reforestation efforts in progress 2. Sound-proofing of gensets 3. Donation of School-In-A-Bag, a portable digital classroom and Sacks-Of-Joy school supplies
Cell sites in ancestral domains	Ladian, Davao City, Brgy. Hanawan, Ocampo, Camarines Sur; Southern Paligue, Padada, Davao del Sur; Donsol, Sorsogon; Puntalinao, Banay-Banay, Davao Oriental; Mt. Mayapay, Bonbon, Butuan City; Brgy. Inagawan, Puerto Princesa City, Palawan; Brgy. Cugman, Cagayan de Oro City; Sagada, Mountain Province; Brgy. Panatayan, Mahatao Batan, Batanes; Brgy. Radiwan, Ivana, Batanes; Brgy. Sta. Maria, Itbayat, Batanes; Brgy. Sinakan, Sabtang, Batanes; Uyugan, Batanes; Brgy. San Antonio, Basco, Batanes	Indigenous communities	Y	Presence of cell site in ancestral domain	Community dialogues; securing Free, Prior and Informed Consent; addressing the needs of the IP community in areas where we operate

* Vulnerable sector includes children and youth, elderly, persons with disabilities, vulnerable women, refugees, migrants, internally displaced persons, people living with HIV and other diseases, solo parents, and the poor or the base of the pyramid (BOP; Class D and E).

For operations that are affecting IPs, indicate the total number of Free and Prior Informed Consent (FPIC) undergoing consultations and Certification Preconditions (CPs) secured and still operational and provide a copy or link to the certificates if available. Please click the [link](https://drive.google.com/open?id=1PCPrTWtmCNvMtVzd3aofauQuG4S7Hqyz):
<https://drive.google.com/open?id=1PCPrTWtmCNvMtVzd3aofauQuG4S7Hqyz>

Certificates	Quantity
FPIC process is still undergoing*	10
CP secured	1

**to date*

Identified Risk/s and our Management Approach

Our operations are far and wide and may involve constant stakeholder engagement with communities and governments to ensure that critical operations continue without incident. We commit to our stakeholder engagement approach that allows us to build trust-based relationships with the community.

We believe in the value of inclusivity and recognize that our stakeholders, the community and customers, have the right to be heard and we are accountable for fair treatment. We regularly communicate and inform concerned communities of decisions and actions that impact them. This is done through regular consultations with the community during project preparations stage and in the case of indigenous peoples (IP), through the free, prior, informed consent (FPIC), leading to the issuance of a Certificate of Precondition (CP). Non-engagement can derail our risk management programs and may result in negative outcomes of projects and operations on ground.

Currently, we have ongoing FPIC consultations for 10 of our cellsites in ancestral domains and one CP released by the National Commission on Indigenous Peoples for our Sagada cellsite. We are awaiting release of our CP for our cellsite in Brgy. Cugman in Cagayan de Oro City and in Mt. Mayapay, Bonbon, Butuan City.

Identified Opportunities and our Management Approach

As we embark on a network transformation plan, rollouts may have to be made in areas populated by vulnerable groups such as indigenous peoples and fisher folks. As part of compliance and commitment to sustainability, we have systematized our management of social and environmental issues, in partnership with business units directly interfacing with Communities and Local Government Units.

For small projects with minimal impact on the surrounding population, we will focus on communication and stakeholder engagement, while larger projects with greater degrees of complexity and wide-ranging impacts on multiple stakeholder groups will adopt a more strategic approach in order to effectively manage the process. In all of these, we will be guided by the principles of openness and transparency. Community approached may include mangrove reforestation, school supplies donation and classroom donations through GabayGuro.

Recognizing communications as an important form of aid, we have been consistent in immediately providing free calls and free charging services during disasters. We use our business offices and cellsites as charging and calling stations. We also allow use of some of our facilities as temporary evacuation centers for affected local residents.

Customer Management

Customer Satisfaction

	Score	Did a third party conduct the customer satisfaction study (Y/N)
Customer Satisfaction		
Fixed	+8	Y
Wireless (Prepaid)	+21	Y

Potential Impact, our Involvement in the Impact, and our Management Approach

Customer satisfaction drives our business. Great customer experience is essential to meeting our overall business goals and a dissatisfaction of our products and services can affect brand loyalty and sales, ultimately hurting our bottom line. This affects our employees, suppliers, partners, and our shareholders. Customer satisfaction still has much room for improvement for us, especially for the Home and Enterprise brands, which were greatly affected by manpower shortages that occurred in 2018.

Our Chairman Manuel V. Pangilinan, together with top management, has taken an active role in our efforts to improve customer experience. Management directed that high-quality customer service will be one of the three strategic imperatives to futureproof the business, together with the pursuit of operational excellence and reliable delivery of future technology. These themes reflect the company's top material issues which feed into the sustainability pillars on growth-driven innovation, responsible and efficient operations and awesome customer experience.

Improving customer satisfaction is a key thrust for all the business units. Year-on year improvement for Net Promoter Score for the wireless business is +21 while that for fixed business is set at +8.

Listening and feedback tools are used to discover and identify customer pain points and how our brand is enhanced or harmed by the customer experience delivered. We perform post-transaction surveys through customer calls made from our contact centers. Our social media accounts (Facebook and Twitter) are also used to gather feedback from customers. We have dedicated electronic mailboxes for specific types of customer concerns. Customers who visit our PLDT Sales & Service Centers have direct access to our 171 hotline technical support.

Identified Risk/s and our Management Approach

There remain gaps in delivering our brand promise. We recognize that there are challenges in how we will encourage employees, suppliers and partners to stay true to the promise. There is also operational alignment needed to execute on delivering that promise. When these gaps occur, prompt customer engagement is key to delivering customer satisfaction.

Engagement made through the contact centers are primarily service-related concerns. Top call drivers are questions on billing and payment (for non-technical calls), reports on service reliability (for technical calls), and follow-ups on application and repair.

PLDT also handles concerns on questions on data privacy and suspected customer data leaks. We also offer alternative services for customers who experience prolonged outages and delayed repairs. We are also offering migration whenever a Fibr facility is available, and SMS notifications for scheduled service outages. An SMS customer advisory program for known emergency outages is also being piloted.

Changing market place where we see a lot of aggressive smaller players claiming to offer “better and newer” technology at a lower price impacts customer’ perception that our products are inferior. This leads to evolving customer wants. The anticipation of a third telecommunication company joining the industry, has, likewise, upped customers’ expectations.

Identified Opportunities and our Management Approach

We are proactively aligning our information technology resources with customer priorities. More technical issues are now resolved upon first contact in our hotline through remote issue resolution, reducing the need for a customer to wait for a technician's visit. We have improved our manpower complement to reduce customer waiting time by making improvements to the Interactive Voice Response (IVR) flow where customers are led to the right channel where their specific concern can be resolved. Customers are informed of their waiting time to talk to an agent and they are also given an option for call-back. If the customer opted to stay on the line to wait for an available agent, related customer education spiels are delivered through the IVR.

We continue to upskill and train our agents via classroom training and experiential learning of current and emerging technologies. Frontline agents are also given back-end visibility. With these, we hope to address customer concerns more efficiently and effectively.

Key drivers that made our customers satisfied are reliable, fast, and wider coverage internet connections, partnership with branded mobile applications, affordability, and approachable brand. We will continue to leverage on those principal factors and take heed to the changing market demands.

In 2019, Smart launched a Customer Experience Room called the *aCXion Room* where customer experience simulation is performed to compare devices, test product features and check on service performance. This concept room helped detect gaps, deploy solutions, and deliver transformation by providing an integrated view of critical business and customer experience information.

Health and Safety

	Quantity
Number of substantiated complaints on product or service health and safety*	0
Number of complaints addressed	N/A

* *Substantiated complaints include complaints from customers that went through the organization’s formal communication channels and grievance mechanisms as well as complaints that were lodged at and acted upon by government agencies.*

Potential Impact, our Involvement in the Impact, and our Management Approach

We recognize our responsibility to guarantee safe products and safe infrastructure. We therefore follow an internal system that protects the integrity and usage of our telecom infrastructure, both hardware and software. We conduct regular testing for all telecom products and infrastructure to ensure they comply with standards and safety requirements.

Identified Risk/s and our Management Approach

New technologies naturally bring with it questions on health risks. As service provider, it is our responsibility to address those fears with credible facts. For instance, the World Health Organization (WHO) has issued statements allaying the public fears about exposure to electromagnetic radiations (EMR) from telecom antennas and phone devices. We share the WHO position and continue to educate the public about facts on emission and health effects via community discussions, position papers and workshops.

Identified Opportunities and our Management Approach

As our wireless business moves towards fifth-generation wireless technology (5G), we see an opportunity to help educate the public on reliable studies about radio frequency emissions and address people's health concerns. We plan to work with regulating authorities to look at health developments on this area as PLDT is committed to the provision of high quality and safe telecom services.

Marketing and Labelling

	Quantity
Number of substantiated complaints on marketing and labelling*	2
Number of complaints addressed	2

* Substantiated complaints include complaints from customers that went through the organization's formal communication channels and grievance mechanisms as well as complaints that were lodged to and acted upon by government agencies

Potential Impact, our Involvement in the Impact, and our Management Approach

Our customers are directly impacted by marketing and labelling. PLDT Marketing is involved in making sure that our branding messages and labeling for our products and services are clear, concise and complies with the Department of Trade and Industry's (DTI's) regulations.

There were two (2) complaints lodged by our competitor with the Advertising Standards Council (ASC), one of which was dismissed while the other entailed a minor copy revision.

Along with creating our usual media advertisements or announcements of new services, PLDT Marketing also conducts customer education campaigns on the responsible use of services for both fixed line and mobile operations. This ranges from the proper use of equipment such as our routers for PLDT Home Fibr to the use of our digital services like our FamCam. Our Hotline 171 is being continually managed to assist our customers for further assistance.

Identified Risk/s and our Management Approach

We provide consumers with opportunities to lodge complaints, express opinion, and suggest ways to improve our products and services. Official complaints are quickly attended to and resolved in the most comprehensive manner.

We are committed to providing our consumers with factual, timely, and comprehensive information on our products and services in a clear and understandable form, staying away from misleading information that may affect the quality of our customer experience.

Identified Opportunities and our Management Approach

As we champion customer-centricity, our marketing and customer experience groups take great pains to provide consumers with complete access to information on PLDT's variety of products and services as well as provide competitive prices, offering choices for the different segments of subscribers in the market.

As part of our drive to improve customer service, we also plan to examine customer experience in relation to complaints regarding incomplete pre-sale information which creates unrealistic customer expectations. PLDT plans to look at underlying systemic causes and address them from a consumer's perspective.

Customer Privacy

	Quantity
Number of substantiated complaints on customer privacy*	
Fixed	2
Wireless	5
Number of complaints addressed	
Fixed	2
Wireless	5
Number of customers, users and account holders whose information is used for secondary purposes	0

* Substantiated complaints include complaints from customers that went through the organization's formal communication channels and grievance mechanisms as well as complaints that were lodged to and acted upon by government agencies.

Potential Impact, our Involvement in the Impact, and our Management Approach

Considering the small number of complaints received compared to the total number of customers, customer complaints relating to privacy have not had a significant impact on our operations. However, our commitment to protect the privacy of our consumers require us to prioritize remediation of customer complaints notwithstanding the limited impact.

In 2019, majority of complaints involve the exercise of rights by customers to have their personal data corrected. Fourteen percent (14%) of complaints result from human error, particularly in the failure to

execute the privacy practices that we mandated. Three percent (3%) of complaints result from systems failure to execute privacy policies.

For these complaints, remediation actions were defined for each case and included in the Data Privacy Programs of the respective stakeholders. Enhancement of policies and processes, and refresher training programs for relevant personnel were done for cases resulting from human error. For cases resulting from system error/failure, inputs to system improvements and transformation projects were suggested. In all cases, our Data Privacy Office monitors resolution of the remediation actions.

Identified Risk/s and our Management Approach

Most of the data privacy incidents may be attributed to one of the following:

1. Failure to protect personal or sensitive personal information during the various stages of the data lifecycle
2. Lack of sufficient measures in handling personal information during the various stages in our lifecycle
3. Lack of sufficient security measures from third parties

All customer complaints in 2019 were responded to and, where required by the circumstances, personally handled by our Data Privacy Officer who met with the customers to ensure that their concerns were addressed. We made use of the remediation requirements following each incident to further improve our policies and practices relating to data protection. We also took the opportunity to review our arrangements with third-party service providers.

Identified Opportunities and our Management Approach

More and more customer data are collected as we aim for a customer-driven growth. Our compliance to the data privacy law and other related laws and how we handle sensitive personal information can affect company reputation. Working on our data privacy complaints have provided us with insights on the limitations of our data protection policies and practices and afforded us with good customer experience arising from our prompt response to privacy complaints.

Data Security

	Quantity
Number of breaches, including leaks, thefts and losses of data	16

Potential Impact, our Involvement in the Impact, and our Management Approach

Any data leak or security breach puts all our customers at risk. Other than the financial loss, flawed data security affects business reputation, translating to negative implications on the future of the business. Securing business data is therefore a high priority area for us.

In 2019, there were 118 complaints received from customers, and two from regulatory authorities. Out of the 118 complaints, 16 were valid and reported to the relevant government regulators and we took actions to mitigate the incidents.

We updated our Privacy Policy in September 2019, with information on data protection and a disclosure on what we do with gathered online information. Privacy policies are found in the following products and services:

SMART – <https://smart.com.ph/Corporate/privacy>

SUN – <https://suncellular.com.ph/privacy>

TNT – <https://tntph.com/privacy-policy>

PLDT HOME – <https://m.pldthome.com/privacypolicy>

PLDT ENTERPRISE – <https://www.pldtenterprise.com/privacy-policy>

PLDT also has a data privacy notice (<https://pldthome.com/dataprivacynotice>) for our customers on what we are doing with the information on our network.

Identified Risk/s and our Management Approach

Our main risks for data security come from data breaches, distributed denial of service (DdoS) attacks, phishing, and related acts. Our Group Data Privacy Office counters these with preventive security measures and seeks help from in-house data security experts, when necessary. We are also subject to the requirements under the Sarbanes-Oxley Act which requires executives and auditors to maintain controls with regards to the unauthorized access to data.

Constant reminders, cascades and mandatory e-learning on data privacy and security are also given to all employees to prevent data security misconduct and create a data privacy culture in the workplace.

Identified Opportunities and our Management Approach

As data and technology continue to evolve, so will the rules and regulations that govern them. We will continue to further collaborate with other telecom industry participants, and the government to strengthen network security and enhance data privacy.

PART IV – UN SUSTAINABLE DEVELOPMENT GOALS

Item 7. Product or Service Contribution to UN SDGs

Key products and services and its contribution to sustainable development

Key Products and Services	Societal Value /Contribution to UN SDGs	Potential Negative Impact of Contribution	Management Approach to Negative Impact
Flagship Products			
PLDT Home	<p>With a suite of multimedia services and solutions, we help Filipino families stay connected and provide them easy access to information and quality entertainment at the comfort of their homes.</p> <p>PLDT Home is aligned with SDGs 1, 4, 8, 9, 10, 11, 12, 13.</p>	<p>By providing access for the families, impressionable children can be exposed to inappropriate content. They can also be preyed upon by unscrupulous criminals.</p> <p>The undersea cabling network and backbone infrastructure being used around the world may be causing environmental impact to marine life and ecosystem that we are not yet aware of</p>	<p>We partnered with UNICEF to institutionalize safeguards for children in our products and services. We also work with partners to support quality content that builds on the Filipino culture.</p> <p>Along with the global industry and associations which we are a member of, PLDT continues to support research and monitoring on potential environmental impacts and supports the drive to improve the physical networks.</p>

Key Products and Services	Societal Value /Contribution to UN SDGs	Potential Negative Impact of Contribution	Management Approach to Negative Impact
Flagship Products			
PLDT Enterprise	<p>We provide solutions to both large enterprises and the SMEs across various industries.</p> <p>We enable small-, and medium-sized businesses that form the essential backbone of the Philippine economy.</p> <p>PLDT Enterprise is aligned with SDGs 1, 4, 5, 8, 9, 10, 11, 12, 13</p>		
PLDT Global Enterprise	<p>We provide communications infrastructure and platforms to a global network of carriers, enterprise customers, and distribution partners. We enable them to achieve their desired connectivity, reach, and market relevance.</p> <p>PLDT Global Enterprise is aligned with SDGs 1, 4, 5, 8, 9, 10, 11, 12, 13, 16, 17</p>		

Key Products and Services	Societal Value /Contribution to UN SDGs	Potential Negative Impact of Contribution	Management Approach to Negative Impact
Flagship Products			
ePLDT	<p>ePLDT delivers digital business solutions that are up to par with global standards. These product and service rosters include Cloud, Cyber Security, purpose-built Data Center facilities and Managed IT Services. These solutions are eyed to help organizations in varying industries to harness the power of technology in achieving their goals faster.</p> <p>ePLDT is aligned with SDGs 1, 4, 5, 8, 9, 10, 11</p>	<p>The digital revolution has also spawned the growth of cyber criminals actively looking to find and exploit any weakness in the networks and victimize people and their businesses.</p> <p>The business consumes a high amount of energy resources for continuous operations.</p>	<p>PLDT is at the forefront of cybersecurity technology, both for R&D and advocating and enabling businesses to protect themselves from cyber criminals. We continuously campaign for awareness and accountability.</p> <p>PLDT continues to monitor potential environmental impacts, identify solutions to mitigate those impacts, and supports the drive to improve the physical networks for better energy-efficiency.</p> <p>We also look toward to high processing speed but energy-efficient technologies for our data centers.</p>

Key Products and Services	Societal Value /Contribution to UN SDGs	Potential Negative Impact of Contribution	Management Approach to Negative Impact
Flagship Products			
Smart	<p>We support the country's growing digital economy, as well as provide the best customer experience for an increasingly digital Filipino lifestyle.</p> <p>Smart is aligned with SDGs 1, 4, 5, 8, 9, 10, 11, 12, 13</p>	<p>By providing access for the families, impressionable children can be exposed to inappropriate content. They can also be preyed upon by unscrupulous criminals.</p> <p>The undersea cabling network and backbone infrastructure being used around the world may be causing environmental impact to marine life and ecosystem that we do not know yet.</p>	<p>We partnered with UNICEF to institutionalize safeguards for children in our products and services.</p> <p>Along with the global industry and associations which we are a member of, we continue to support research and monitoring on potential environmental impacts and supports the drive to improve the physical networks.</p>

**None/Not Applicable is not an acceptable answer. For holding companies, the services and products of its subsidiaries may be disclosed.*

With operations that span the whole country and services that affect the lives of individuals and communities alike, we have direct impact on each of the 17 SDGs.

Our extensive network of facilities allows us to offer a wide range of innovative products and services (outlined in the table) that boosted small and medium sized enterprises, energized communities and local governments and kept the Philippine economic engine running. *(SDG 8: Good Jobs and Economic Growth) (SDG 9: Innovation and Infrastructure) (SDG 11: Sustainable Cities and Economies).*

As in any business or industry, our growth has been dependent on the availability of energy resources and consumption of finite resources. It is our concern, therefore, that we are able to also create solutions to help support the sustainability of resources needed in the future.

Seeking viable solutions, we embarked on a company-wide, sustainable plan that would stimulate employee participation in helping preserve the environment, conserve energy, and maintain operational efficiency.

Our facilities and networks teams devised ways to manage the environmental concerns stemming from our operations. These encompassed the use of energy-saving lighting systems, recycling/proper disposal of hazardous wastes, replacement of base station equipment with newer technology that consume less power, and roll-out of green-powered cell sites in off-grid areas to ensure seamless voice/data service and nationwide coverage to over 73 million subscribers. *(SDG 7: Affordable and Clean Energy)*

Green Merchandising initiatives have also resulted in the shift towards using earth-friendly materials for the huge amount of outdoor advertising and promotional materials that we produce on an annual basis. (SDG: 12: Responsible Consumption)

In 2019, we led a nationwide tree-planting activity on the 10th anniversary of Typhoon *Ondoy*. This included *Telepuno* where, in celebration of PLDT's 90th anniversary, 2,500 seedlings were planted at the Central Cebu Protected Landscape and 1,250 trees were planted at the Marikina Watershed. We generated both goodwill in the watershed communities where we conducted tree planting activities and bolstered employee volunteerism in support of our environment and energy conservation efforts. (SDG 6: Clean Water and Sanitation) (SDG 13: Climate Action) (SDG 15: Life on Land)

In addition, the homegrown innovation by PLDT-Smart employees, called #SmartPlanet phone recycling device, presents a unique way of collecting discarded mobile devices to keep electronic waste out of landfills. With electronic sensors, the bin sends out e-load in exchange for used phones, chargers, and tablets. Similarly, #SmartPlanet offers a plastic bottle counterpart to the said devices, with bottle-recycling bins deployed to different Smart events and festivals. (SDG 12: Responsible Consumption and Production) (SDG 13: Climate Action)

Our innovation extends to delivering technological solutions to help communities in their pursuit of progress and sustainable development.

For instance, LearnSmart Literacy Apps are mobile applications developed in partnership with academic institutions and the Department of Education (DepEd) regional offices nationwide. As of December 31, 2019, PLDT subsidiary Smart has launched 10 literacy applications featuring alphabet and number exercises, short stories, songs, and games -- all in the mother tongue. These apps are: *Bahay Kubo* (Filipino), *Kaalam* (Cebuano), *Ta'allam* and *Tahderiyyah* (Arabic), *Matisalug* (Matigsalug indigenous peoples Tribe of Davao and Bukidnon), *Kaaram* (Waray), *Katao* (Inabaknon), *Singsing* (Kapampangan), *Sanut* (Ilokano), and *Gnare Blaan* (Blaan).

Meanwhile, Smart and network vendor Ericsson's joint initiative called Connected Mangroves helps in environmental conservation by using IoT solutions. Another project called Rainforest Connection, with partner vendor Huawei, uses bioacoustic sensors and AI to track illegal activities inside rainforests. These innovative apps and solutions employ our connectivity capability to make a difference in the communities. (SDG 4: Quality Education) (SDG 9: Innovation and Infrastructure) (SDG 10: Reduced Inequalities) (SDG 15: Life on Land)

Despite the difficulty in quantifying impact on poverty eradication and education, we continue to build on our corporate social responsibility programs that support education and livelihood and ultimately lift people and communities towards economic freedom. With strong emphasis on digital literacy, education continues to be our flagship advocacy program.

Our *Gabay Guro* program provides teachers with a holistic program that span scholarships, livelihood programs, connectivity and computerization, housing and educational facilities, training and innovation, and annual tribute events. Now on our twelfth (12th) year, the program trained over 60,000 teachers and granted 1,770 scholarships in total. (SDG 1: No Poverty) (SDG 2: Zero Hunger) (SDG 3: Good Health & Wellbeing) (SDG 4: Quality Education) (SDG 5: Gender Equality) (SDG 8: Decent Work & Economic Growth) (SDG 9: Innovation & Infrastructure) (SDG 10: Reduced Inequalities) (SDG 11: Sustainable

Communities) (SDG 12: Responsible Consumption) (SDG 13-15: Climate Action & Life on Land & Water) (SDG 17: Partnerships).

Our PLDT Infoteach reaches out to high school students, primary to secondary level teachers, and out-of-school youths through digital literacy trainings. Since its inception in 2004, the initiative has produced over 32,000 program graduates. Smart also has the School-in-a-Bag program, which bridges the digital divide by providing portable digital classrooms and trainings for remote and underserved learning communities. Our #LearnSmart initiative has deployed over 200 technology packages, trained more than 2,000 teachers, and reached over 60,000 students as of December 31, 2019. *(SDG 4: Quality Education)*

For tertiary level learners, Smart empowers colleges and universities to produce industry-ready engineering and IT graduates through the Smart Wireless Engineering Education Program or SWEEP. This internationally-recognized program holds the annual SWEEP Awards which presents budding technopreneurs a platform to develop innovative applications. Now on its 19th year, the program has so far trained more than 36,000 engineering and IT students and teachers. Over 1,000 SWEEP trainees have been directly hired under Smart's technology group. *(SDG 4: Quality Education) (SDG 8: Good Jobs and Economic Growth)*

Meanwhile, the pursuit of goals towards providing decent work and economic growth for all finds all of us advocating and promoting sustainable livelihood.

PLDT-Smart's *Ka-Partner* Rewards Program gives incentives to our e-load sellers, assisting them in growing their business. The sales team-led project has produced 19 retailers-turned-millionaires as of December 31, 2019. *(SDG 8: Good Jobs and Economic Growth)*

Our Community Relations' partnership with Sew Mates of the Davao-based Philippine Eagle Foundation Conservation Program connected with indigenous women from partner communities in Mindanao and trained them to make Philippine Eagle plush toys. Similarly, trainings with women of the Rural Workers Muladbuca Pequeno Association were also conducted to produce PLDT Ecobags and start businesses through a partnership with the Philippine Business for Social Progress (PBSP) and the Coalition for Bicol Development. *(SDG 1: No Poverty) (SDG 5: Gender Equality)*

We also have a joint project with the Department of Agriculture-Agricultural Training Institute (DA-ATI) and Probe Media Foundation. Smart's Digital Farmers Program (DFP) aims to expedite the agriculture sector's adoption and use of innovative means of farming. These include the use of drones, analytics, precision farming, AI, climate and weather monitoring, IT solutions, digital apps, e-money, blockchain, and other multi-layer platforms. Smart has rolled out 15 training sessions of DFP 101 in 14 provinces across the country within our first six months after its launch in June 2019. *(SDG 1: No Poverty) (SDG 2: No Hunger)*

We are committed to being good environmental citizens in all communities in which we operate. We continue to contribute our resources, expertise, and technologies to partnerships that improve the lives of Filipinos. And we partner with the government, civil society, and peer alliances to promote technology for development advocacy towards inclusive growth and drive creativity in solving societal challenges. *(SDG 17: Partnerships)*

We are proving that adopting sound, sustainable practices is ultimately good for revenue growth. Consolidated service revenues rose 8%, up P157 billion as of end-December 2019. (*SDG 8: Good Jobs and Economic Growth*).

From the measures we have taken and continue to undertake, we aim to be eventually recognized as a leader not only in providing affordable, quality communications services, but also an important partner in transforming and sustaining our world.