UNITED STATES SECURITIES AND EXCHANGE COMMISSION WASHINGTON, D.C. 20549

FORM 20-F

Mark O	ne) REGISTRATION STATEMENT PURSUANT TO S 1934	SECTION 12(b) OR (g) OF T	HE SECURITIES EXCH	ANGE ACT OF		
		OR				
\boxtimes	ANNUAL REPORT PURSUANT TO SECTION 13	OR 15(d) OF THE SECURIT	TIES EXCHANGE ACT	OF 1934		
	For the fiscal y	rear ended <u>December 31, 202</u>	<u>3</u>			
		OR				
	TRANSITION REPORT PURSUANT TO SECTION	N 13 OR 15(d) OF THE SEC	URITIES EXCHANGE A	CT OF 1934		
		OR				
	SHELL COMPANY REPORT PURSUANT TO SEC	CTION 13 OR 15(d) OF THE	SECURITIES EXCHAN	IGE ACT OF 1934		
	For the tra	requiring this shell company report nsition period from to ssion file number 001-31731				
	Chunghwa	Telecom Co.	, Ltd.			
	(Exact name of Registrant as specified in its charter) Chunghwa Telecom Co., Ltd. (Translation of Registrant's name into English) Taiwan, Republic of China (Jurisdiction of incorporation or organization) 21-3 Xinyi Road, Section 1, Taipei, Taiwan 10048, Republic of China (Address of principal executive offices) Cho-Fen (Angela) Tsai 21-3 Xinyi Road, Section 1, Taipei 10048, Taiwan, Republic of China Tel: +886 2 2344-5488 E-mail: chtir@cht.com.tw (Name, Telephone, E-mail and/or Facsimile unumber and Address of Company Contact Person)					
	Securities registered or to be Title of each class	e registered pursuant to Section 12(b) of Trading Symbol(s)		nge on which registered		
	Common Shares, par value NT\$10 per share	N/A		ock Exchange*		
	can Depositary Shares, as evidenced by American ary Receipts, each representing 10 Common Shares	CHT	New York S	tock Exchange		
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	check mark if the registrant is a well-known seasoned issuer, as defined in left is an annual or transition report, indicate by check mark if the registrant is			Evolunes Act of 1024 D Vos		
☑ No	check mark whether the registrant (1) has filed all reports required to be file			-		
uch shorte	reperiod that the registrant was required to file such reports), and (2) has bee check mark whether the registrant has submitted electronically every Intera	en subject to such filing requirements for	the past 90 days. ✓ Yes No			
	preceding 12 months (or for such shorter period that the registrant was requi		pursuant to Ruic 405 of Regulation	3-1 (§ 232.403 of this Chapter)		
	check mark whether the registrant is a large accelerated filer, an accelerated elerated filer," and "emerging growth company" in Rule 12b-2 of the Excha		ging growth company. See the defin	nitions of "large accelerated		
f an emer	Large accelerated filer Accelerated filer ing growth company that prepares its financial statements in accordance wi	Non-accelerated f	•	ng growth company □		
	ing with any new or revised financial accounting standards† provided pursua			the estended dansinon period		
ndicate by	"new or revised financial accounting standard" refers to any update issued by check mark whether the registrant has filed a report on and attestation to its the Sarbanes-Oxley Act (15 U.S.C.) 7262(b)) by the registered public account	management's assessment of the effective	veness of its internal control over fir			
f securitie	s are registered pursuant to Section 12(b) of the Act, indicate by check mark issued financial statements. \Box		-	et the correction of an error to		
	check mark whether any of those error corrections are restatements that reqring the relevant recovery period pursuant to $\$240.10D-1(b)$. \square	uired a recovery analysis of incentive ba	sed compensation received by any o	f the registrant's executive		
ndicate by	check mark which basis of accounting the registrant has used to prepare the	e financial statements included in this fili	ng:			
	U.S. GAAP ☐ International Financial Reporting Stan	dards as issued by the International Acco	ounting Standards Board ⊠	Other		
f "Other"	has been checked in response to the previous question, indicate by check ma	ark which financial statement item the reg	gistrant has elected to follow. Item	n 17 □ Item 18		
	annual report, indicate by check mark whether the registrant is a shell comp BLE ONLY TO ISSUERS INVOLVED IN BANKRUPTCY PROCEEDIN	* *	• /			
ndicate by	check mark whether the registrant has filed all documents and reports requi a of securities under a plan confirmed by a court. \square Yes \square No			1934 subsequent to the		
1	Not for trading, but only in connection with the listing on the New York Stoc	ck Exchange of the American Depositary	Shares			

CHUNGHWA TELECOM CO., LTD.

FORM 20-F ANNUAL REPORT FISCAL YEAR ENDED DECEMBER 31, 2023 TABLE OF CONTENTS

		Page
SUPPLEME	ENTAL INFORMATION	1
	-LOOKING STATEMENTS IN THIS ANNUAL REPORT MAY NOT BE REALIZED	2
Part I		3
ITEM 1.	IDENTITY OF DIRECTORS, SENIOR MANAGEMENT AND ADVISERS	3
ITEM 2.	OFFER STATISTICS AND EXPECTED TIMETABLE	3
ITEM 3.	KEY INFORMATION	3
ITEM 4.	INFORMATION ON THE COMPANY	15
ITEM 4A.	UNRESOLVED STAFF COMMENTS	43
ITEM 5.	OPERATING AND FINANCIAL REVIEW AND PROSPECTS	44
ITEM 6.	DIRECTORS, SENIOR MANAGEMENT AND EMPLOYEES	58
ITEM 7.	MAJOR STOCKHOLDERS AND RELATED PARTY TRANSACTIONS	68
ITEM 8.	FINANCIAL INFORMATION	69
ITEM 9.	THE OFFER AND LISTING	70
ITEM 10.	ADDITIONAL INFORMATION	71
ITEM 11.	QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK	85
ITEM 12.	DESCRIPTION OF SECURITIES OTHER THAN EQUITY SECURITIES	87
Part II		89
ITEM 13.	DEFAULTS, DIVIDEND ARREARAGES AND DELINQUENCIES	89
ITEM 14.	MATERIAL MODIFICATIONS TO THE RIGHTS OF SECURITY HOLDERS AND USE	
	OF PROCEEDS	89
ITEM 15.	CONTROLS AND PROCEDURES	89
ITEM 16A.	AUDIT COMMITTEE FINANCIAL EXPERT	92
ITEM 16B.	CODE OF ETHICS	92
ITEM 16C.	PRINCIPAL ACCOUNTANT FEES AND SERVICES	92
ITEM 16D.	EXEMPTIONS FROM THE LISTING STANDARDS FOR AUDIT COMMITTEES	92
ITEM 16E.	PURCHASES OF EQUITY SECURITIES BY THE ISSUER AND AFFILIATED	
	<u>PURCHASERS</u>	93
ITEM 16F.	CHANGE IN REGISTRANT'S CERTIFYING ACCOUNTANT	93
ITEM 16G.	CORPORATE GOVERNANCE	93
ITEM 16H.	MINE SAFETY DISCLOSURE	96
ITEM 16I.	DISCLOSURE REGARDING FOREIGN JURISDICTIONS THAT PREVENT	96
IDDN 1.161	INSPECTION NUMBER OF A DIVISION OF A DIVISI	0.6
ITEM 16J.	INSIDER TRADING POLICIES	96
ITEM 16K.	CYBERSECURITY	96
Part III		99
ITEM 17.	FINANCIAL STATEMENTS	99
ITEM 18.	FINANCIAL STATEMENTS	99
ITEM 19.	EXHIBITS	100

SUPPLEMENTAL INFORMATION

All references to "we," "us," "our," "Chunghwa Telecom" and "our company" in this annual report are to Chunghwa Telecom Co., Ltd. and our consolidated subsidiaries, unless the context otherwise requires. All references to "shares" and "common shares" are to our common shares, par value NT\$10 per share, and to "ADSs" are to our American depositary shares, each of which represents ten of our common shares. The ADSs are issued under the deposit agreement, as amended, supplemented or modified from time to time, originally dated as of July 17, 2003, among Chunghwa Telecom Co., Ltd. and the Bank of New York, amended and restated on November 14, 2007, among Chunghwa Telecom Co., Ltd. and JP Morgan Chase Bank, as depository, and the holders and beneficial owners of American Depositary Receipts issued thereunder, and further amended and restated on December 27, 2023, among Chunghwa Telecom Co., Ltd. and JPMorgan Chase Bank, N.A., as depository, and the holders of American Depositary Receipts issued thereunder. All references to "Taiwan" are to the island of Taiwan and other areas under the effective control of the Republic of China. All references to "the government" or "the ROC government" are to the government of the Republic of China. All references to "the Ministry of Transportation and Communications" or "the MOTC" are to the Ministry of Transportation and Communications of the Republic of China, All references to "the National Communications Commission" or "the NCC" are to the National Communications Commission of the Republic of China. All references to the "Securities and Futures Bureau" are to the Securities and Futures Bureau of the Republic of China or its predecessors, as applicable. "ROC GAAP" means the generally accepted accounting principles of the Republic of China, "U.S. GAAP" means the generally accepted accounting principles of the United States, "IFRSs" means International Financial Reporting Standards as issued by the International Accounting Standards Board, and "Taiwan IFRSs" means the International Financial Reporting Standards as issued by the International Accounting Standards Board and endorsed by the Financial Supervisory Commission, or the FSC, which are required to be adopted by applicable companies in the ROC pursuant to the "Framework for Adoption of International Financial Reporting Standards by Companies in the ROC" promulgated by the FSC on May 14, 2009. Any discrepancies in any table between totals and sums of the amounts listed are due to rounding. Unless otherwise indicated, or the context otherwise requires, references in this annual report to financial and operational data for a particular year refer to the fiscal year of our company ending December 31 of that year. When we refer to our "privatization" or our being "privatized" in this annual report, we mean our status as a non-state-owned entity after the government reduced its ownership of our outstanding common shares, including our common shares owned by entities majority-owned by the government, to less than 50%. We were privatized on August 12, 2005.

We publish our consolidated financial statements in New Taiwan dollars, the lawful currency of the Republic of China. In this annual report, "NT\$" and "NT dollars" mean New Taiwan dollars, "\$," "US\$" and "U.S. dollars" mean United States dollars. For the convenience of readers, NT dollar amounts used in this annual report for, and as of, the year ended December 31, 2023 have been translated into U.S. dollar amounts using US\$1.00=NT\$30.62, set forth in the statistical release of the Federal Reserve Board of the United States on December 29, 2023. The U.S. dollar translation appears in parentheses next to the relevant NT dollar amount. We make no representation that any New Taiwan dollar amounts or U.S. dollar amounts referred to in this annual report could have been or could be converted into U.S. dollars or NT dollars, as the case may be, at any particular rate or at all. On April 8, 2024, the exchange rate was NT\$32.10 to US\$1.00.

FORWARD-LOOKING STATEMENTS IN THIS ANNUAL REPORT MAY NOT BE REALIZED

This annual report contains forward-looking statements, including statements regarding:

- general local and global economic conditions and regulations;
- the political stability of our local region;
- our business and operating strategies;
- our network expansion plans;
- our business, operations and prospects;
- our financial condition and results of operations;
- our dividend policy;
- the telecommunications industry regulatory environment in Taiwan;
- future developments in the telecommunications industry in Taiwan; and
- possible disruptions in commercial activities caused by natural and human-induced disasters, including the effects of climate changes, outbreaks of contagious diseases and cybersecurity incidents.

These forward-looking statements are generally indicated by the use of forward-looking terminology such as "believe," "expect," "anticipate," "estimate," "plan," "aim," "seek," "project," "may," "will" or other similar words that express an indication of actions or results of actions that may or are expected to occur in the future. These statements reflect our current views with respect to future events and are subject to risks, uncertainties and assumptions, many of which are beyond our control. The forward-looking statements are contained principally in the sections entitled "Item 3. Key Information—D. Risk Factors," "Item 4. Information on the Company" and "Item 5. Operating and Financial Review and Prospects." These statements are made under the "safe harbor" provisions of the U.S. Private Securities Litigation Reform Act of 1995. We have based these forward-looking statements largely on our current expectations and projections about future events and financial trends that we believe may affect our financial condition, results of operations, business strategy and financial needs. You should not place undue reliance on these statements, which apply only as of the date of this annual report. These forward-looking statements are based on our own information and on information from other sources we believe to be reliable. Actual results may differ materially from those expressed or implied by these forward-looking statements. Factors that could cause differences include, but are not limited to, those discussed under "Item 3. Key Information—D. Risk Factors." In light of these risks, uncertainties and assumptions, the forward-looking events discussed in this annual report might not occur and our actual results could differ materially from those anticipated in these forward-looking statements. The forward-looking statements made in this annual report relate only to events or information as of the date on which the statements are made in this annual report. Except as required by law, we undertake no obligation to update or revise publicly any forward-looking statements, whether as a result of new information, future events or otherwise, after the date on which the statements are made or to reflect the occurrence of unanticipated events. You should read this annual report completely and with the understanding that our actual future results may be materially different from what we expect.

PART I

ITEM 1. IDENTITY OF DIRECTORS, SENIOR MANAGEMENT AND ADVISERS

Not applicable.

ITEM 2. OFFER STATISTICS AND EXPECTED TIMETABLE

Not applicable.

ITEM 3. KEY INFORMATION

A. [Reserved]

B. Capitalization and Indebtedness

Not applicable.

C. Reasons for the Offer and Use of Proceeds

Not applicable.

D. Risk Factors

Our business and operations are subject to various risks, many of which are beyond our control. If any of the risks described below actually occurs, our business, financial condition or results of operations could be seriously harmed.

Risks Relating to Our Company and the Taiwan Telecommunications Industry

Extensive regulation of our industry may limit our flexibility to respond to market conditions and landscape, and our business and revenues may suffer.

As a telecommunications service provider in Taiwan, we are subject to extensive regulation. According to the ROC Telecommunications Management Act, or the TMA, telecommunications enterprises shall register themselves with the NCC and become subject to the TMA. We applied for registration on July 31, 2020, and received approval from the NCC on September 30, 2020. Since then, we have become subject to the TMA. On April 15, 2022, the NCC announced that two retail service markets (i.e., the fixed-line voice market and the fixed-line broadband market) and three wholesale service markets (i.e., the fixed-line wholesale market, fixed-line voice access market and the mobile voice access market) are designated as specific telecommunications service markets; on June 5, 2023, we were officially determined to be the telecommunications enterprise with significant market power in the aforementioned five specific telecommunications service markets subject to special control measures, including fee control, accounting separation, information transparency and non-discrimination treatment. See "Item 4. Information on the Company—B. Business Overview—Regulation" for more information on the regulatory environment.

With respect to the special control measures relating to fee control, the NCC announced the promulgation of the "Upper Limits on the Termination Rate for Voice Service over Mobile Network Provided by Significant Market Powers" on May 26, 2023, the promulgation of the "Primary Fees, Adjustment Coefficients and Years of Implementation for Price Cap Control Enforced on Significant Market Power in the Fixed Communication Network Voice Retail Service Market, Fixed Communication Network Broadband Retail Service Market and Fixed Communication Network Wholesale Service Market" on June 2, 2023, and the promulgation of the "Upper Limits on the Termination Rates for Voice Service over Fixed Network Provided by Significant Market Powers" on June 5, 2023, which constrain our ability to raise prices. On March 15, 2024, the NCC announced that, effective from April 1, 2024, the "monthly rental fee of broadband network circuit" were enforced to be reduced by "3.32% minus annual growth rate of the Consumer Price Index (CPI)," excluding the circuits of ADSL, that with download speed at and below 12 Mbps and that with download speed at 300 Mbps and above. For the fixed-line wholesale services, including the private circuits, broadband network wholesale circuits and internet interconnection bandwidth, the fees

were enforced to be reduced by "5.09% minus annual growth rate of CPI," excluding the circuits with download speed at and under 2 Mbps. See "Item 4. Information on the Company—B. Business Overview—Regulation" and "Item 5. Operating and Financial Review and Prospects—Overview—Tariff adjustments." We cannot assure you that we will not be required to further reduce our tariffs again in the future. Any mandatory tariff reductions could have a material adverse effect on our revenues.

Furthermore, in August 2022, the Ministry of Digital Affairs was launched to partly take over the administrative authorities formerly held by the NCC, the Ministry of Transportation and Communications and the Executive Yuan, respectively, including (1) telecommunications popularization, telecommunication enterprises cyber security management, number portability and equal accessibility, critical telecommunications infrastructure, radio frequencies allocation, as well as management of telecommunications numbers, websites and domain names, formerly held by the NCC; (2) comprehensive communications resources allocation and telecommunication industry counseling and incentives, formerly held by the Ministry of Transportation and Communications; and (3) the cyber security management, formerly held by the Executive Yuan. We are closely monitoring these regulatory changes and related policy development and we cannot assure you that these changes and development will not affect our business.

If we fail to comply with the regulations of the ROC Fair Trade Act, we may be investigated and fined.

As a provider of telecommunication products and services, our business operations are subject to the regulations of the ROC Fair Trade Act, or the FTA, which is administered and enforced by the ROC Fair Trade Commission, or the FTC. The FTA requires, among other things, that the marketing and promotional materials of a business to be true and not misleading. The FTA also prohibits a business from participating or engaging in a cartel or other anti-competitive conduct. The FTC has the authority under the FTA to investigate and, where appropriate, impose fines and penalties on a business that violates any regulations promulgated by the FTA. The consequences of any such violations could have a material adverse effect on our business and results of operations. See "Item 4. Information on the Company—B. Business Overview—Regulation" for a discussion of the FTA applicable to us. We have been investigated and penalized by the FTC in the past and may continue to be investigated or penalized by the FTC if we fail to comply with the relevant regulations. As the FTA provides the FTC broad discretion to interpret cartel or other anti-competition actions and enforce the relevant clauses under the FTA and FTC might take a different view of our existing business operation in the wake of advancement of global regulatory trend, we are unable to predict whether or when the FTC would initiate investigations on any of our daily business activities or find us liable for violating the FTA in the future. The investigations of any penalties imposed by the FTC could interrupt our provision of products or services and have a negative impact on our reputation, business operations and results of operations.

If we do not or are unable to obtain and maintain necessary approvals to operate our business, our business prospects and future results of operations would be adversely affected.

We operate our businesses with approvals (including licenses) granted by the government and we have obtained necessary approvals to provide our services. If these approvals are revoked or suspended or are not renewed, or if we are unable to obtain any necessary approvals that we may need to operate or expand our business in the manner we desire, our financial condition and results of operations, as well as our prospects, will suffer and we may lose our customers and market share and become less profitable.

If we are unable to successfully acquire and maintain the rights to use the frequency spectrums or other approvals that we may need for our future business operations, our business prospects and future results of operations may be materially and adversely affected.

Market landscape may adversely affect our growth and profitability by causing us to lose customers, charge lower tariffs, spend more on marketing or lose market share.

The market landscape of the telecommunications industry in Taiwan is constantly changing. In December 2023, two mergers were completed. As a result, the number of mobile network operators in Taiwan decreased from five to three, including us, and the degree of concentration of the telecommunication industry in Taiwan has been increasing. The completion of these two mergers may bring a more competitive market landscape. Our competitors

have additional spectrum as a result of the mergers, and able to enhance customer experience and introduce new services. We will be dedicated to enhancing our network quality and services to respond to competitors' challenge. However, we cannot assure you that we can successfully manage these risks or develop effectively to maintain our market share and customer base, achieve economies of scale or sustain our profit margin under the increased market concentration. If we fail to do so, our business, results of operation and financial conditions may be adversely affected.

Our primary advantages lie in our leading 5G service and the design of effective tariffs. In 2023, the strategy of our mobile business was to focus on promoting the highest quality of 5G service to our customers. More customers upgrading to 5G plans will increase the possibility of raising our mobile services revenues. However, mobile network operators might offer aggressive programs to attract consumers, such as unlimited low-priced data plans. We cannot assure you that we will be able to constantly raise our revenues from mobile broadband services in light of the current market landscape, which could have a material adverse effect on our business prospects and our future results of operations.

Cable operators mainly promote high-speed internet access and TV converging solutions, and the bundled price is about 10% to 20% off ours. Furthermore, they offer low-price promotions of about 40% to 60% off ours for competitors' users and expand sales channels through cross-industry alliances. Competitors may also roll out aggressive marketing plans such as bundling broadband internet and 4G/5G mobile services to stir the market. Although we have rolled out Multiple-Play Package of mobile service, broadband service and Wi-Fi bundled plans, we still face intensified low-price strategies from other cable operators for our broadband access and IPTV services. If we are unable to achieve a favorable position compared with the cable operators for broadband access and multimedia-on-demand, or MOD, services, our results of operations could be impacted.

As mobile data access speeds have increased with the advancement of technologies, many of our customers have replaced fixed broadband services with high-speed mobile broadband services, especially those who used lower-speed fixed broadband services. Any of these developments could adversely affect our business, financial condition and results of operations.

As an internet service provider, we may not be able to protect our customers and their information from cyberattacks, nor protect our services or those of our partners with whom we share our confidential information from disruptions due to cybersecurity breaches.

Driven by emerging technologies such as AI, IoT and cloud services, cybersecurity threats have evolved into multi-faceted mixed attacks. Any cybersecurity incident or privacy leakage will damage customers' rights and cause us penalties and financial losses. In addition, malware attacks, which are often imbedded into supply chain software, have become more frequent and diverse, and would adversely impact business services or privacy leakage.

The Cyber Security Management Act came into force on January 1, 2019. According to the Act, a critical infrastructure provider shall satisfy the requirements of the cybersecurity responsibility level, to amend and implement the cybersecurity maintenance plan. The "Administration Regulations of Cyber Security on Telecommunications Business," promulgated pursuant to the "Telecommunications Management Act," was enforced on July 1, 2020. According to the Regulations, telecommunications enterprises shall establish a cybersecurity maintenance plan and implement it accordingly. If we fail to comply with such requirements, we may be subject to administrative penalties. We may suffer negative consequences, such as remedial costs, increased cybersecurity protection costs, lost revenues, litigation and reputational damage due to cyberattacks. See "Item 16K. Cybersecurity."

If new technologies adopted by us do not perform as expected, or if we are unable to effectively deliver new services based on these technologies in a commercially viable manner, our revenue growth and profitability will decline.

We are constantly evaluating new growth opportunities. Some of these opportunities involve new services for which there are no proven markets, and may not develop as expected. Our ability to deploy and deliver these services will depend, in many instances, on new but unproven technologies. These new technologies may not perform as expected or generate an acceptable return. In addition, we may not be able to develop new technologies

to effectively, competitively and economically deliver these services. In the 5G era and ICT realm, there could be more services beyond that of standard operators by delivering services via a B2B2X model, which is substantially dependent on the availability of applications and devices developed by third parties. If we fail to deliver commercially viable services based on the new technologies that we adopt, our financial condition and results of operations may be materially and adversely affected. In addition, we may need to cooperate with certain third parties to deliver these new services. To the extent that these third parties fail to perform their obligations, our services, financial condition and results of operations may be materially and adversely affected.

Our ability to deliver services may be disrupted due to systems failures, network shutdowns, earthquakes or other natural disasters.

Our ability to deliver services could be disrupted by systems failures, network shutdowns or other unanticipated problems at our facilities. For example, our submarine cables might be broken due to removals of sand and gravel by certain sand pumper dredgers, which would cause suspensions of our fixed line services, MOD, broadband access and mobile services.

Taiwan is also susceptible to earthquakes and typhoons. However, we do not carry insurance to cover damage caused by earthquakes, typhoons or other natural disasters, including the effects of climate changes (such as drought, floods and increased storm severity), or any resulting business interruption. Our services are currently carried through our fixed and mobile communications networks, as well as through our transmission networks consisting of optical fiber cable, microwave, submarine cable and satellite transmission links, which could be vulnerable to damage or interruptions in operations due to natural disasters. The occurrence of natural disasters could impact our ability to deliver services and have a negative effect on our results of operations. In 2023, we recorded losses on property, plant and equipment arising from natural disasters such as earthquakes and typhoons in the amount of approximately NT\$1.16 million (US\$0.04 million). Furthermore, we might also be liable for losses claimed from our customers that were incurred from our failure to deliver our services. These potential liabilities could also have a material adverse effect on our results of operations.

Effects of climate change may result in potential adverse impacts on our business, financial conditions and results of operations.

Climate change presents a multifaceted risk landscape for our company. The escalating frequency and severity of extreme weather events, such as typhoons, floods, high temperatures and wildfires, pose a direct threat to our physical infrastructures, such as Internet Data Centers, or IDCs, and base stations, potentially leading to service disruptions and heightened operational costs associated with maintenance, repairs and replacements. Moreover, the global shift towards stringent climate change-related policies amplifies regulatory risks. Compliance with evolving international and industry standards as well as additional disclosure requirements incur costs and potentially strain financial resources. For example, the imposition of carbon fees or other regulatory fees in a jurisdiction where we operate could result in substantially higher compliance costs. In particular, in response to global climate change, Taiwan adopted the Climate Change Response Act (formerly known as the Greenhouse Gas Reduction and Management Act) in February 2023, which establishes the goal of achieving net-zero emissions by 2050 and introduced the carbon pricing system. We cannot predict what effect of the implementation of the Climate Change Response Act may have on our business. In addition, in March 2024, the SEC announced its final Climate-Related Disclosure Rule, which requires issuers to provide information regarding material Scope 1 and Scope 2 greenhouse gas emissions, or GHG emissions, severe weather-related financial statement disclosures and climate-related governance, risks and targets disclosures. We, as a large accelerated filer, will be required to comply with certain of the Climate-Related Disclosure Rule as of the date of our annual report for the fiscal year ended December 31, 2025. As a result, we will need to take proactive measures to comply with the rule, which would incur additional costs and efforts. The imposition of any other regulatory fees and further legislative developments may increase our compliance costs or subject us to additional restrictions in our operations, which may adversely affect our financial condition. Furthermore, beyond immediate operational and financial impacts, there also exists higher market expectation for large enterprises like us to take more initiatives and responsibility. Failure to meet these expectations may result in reputational damage and a potential loss of customer trust.

We always commit to the adaptation and mitigation of climate change and reducing operational risks of our business. For example, we adopted the Task Force on Climate-related Financial Disclosure, or TCFD, in 2020. Since then, we have continuously disclosed information on governance, strategy, risk management as well as metrics and goals regarding climate-related risks and opportunities in our sustainability report and on our official website. We also set detailed carbon emission management targets to achieve the goal of 2050 net-zero emissions. Our carbon emission management targets include achieving a 50% reduction of scope 1 and 2 carbon emissions by 2030 compared with the level in 2020, and using 100% renewable energy for IDCs by 2030 and for the Company by 2040. For further initiatives and measures we adopt in response to climate-related challenges, please refer to "Item 4. Information on the Company — B. Business Overview — Corporate Responsibilities: Environmental, Social and Governance (ESG) Initiatives." However, we cannot assure you that we will be successful in achieving these goals or transitioning to low-carbon operations as we have committed. If we fail to do so, our business, financial conditions, results of operations and reputation may be adversely affected.

Our long-term international bandwidth supply may be disrupted by unexpected delays for new international submarine cables.

The complicated permitting processes have caused unexpected delays on operation and construction. In particular, the construction of our new submarine cable, Southeast Asia-Japan 2 Submarine Cable, or SJC2, which connects various countries in the Asia Pacific region, has been delayed unexpectedly. The target service commencement date was pushed back to the end of 2024, which is more than three years later than the original plan.

In the foreseeable future, submarine cables remain an indispensable international bandwidth solution, especially for Taiwan, and cannot be replaced by alternatives like satellite and microwave transmissions. Disruptions on new submarine cable projects will not only affect our services to individual customers but will also endanger our IDC, terrestrial links and international bandwidth sales, and eventually may have a material adverse effect on our business.

Changes in technology may render our current technologies obsolete or require us to obtain approvals for introducing new services or make substantial capital investments, financing or successfully manage our liquidity and cash flows.

The telecommunications industry in Taiwan has been characterized by rapid increases in the diversity and sophistication of the technologies and services offered. As a result, we need to constantly upgrade our telecommunications technologies and services to respond to evolving industry conditions and customer requirements, rendering some less advanced technologies obsolete. The cost of implementing new technologies, upgrading our networks or expanding capacity could be significant. In particular, we have made and will continue to make substantial capital expenditures in the near future to effectively respond to technological changes to meet the increasingly robust high-bandwidth requirements of digital convergence services. After obtaining 5G mobile broadband services spectrum, we started our 5G network construction. Our ability to obtain additional financing will also depend on a number of factors. These factors include, but are not limited to, our financial condition, results of operations, financing cost, telecommunications industry conditions, financial market conditions, and relevant government and other regulatory approvals. Furthermore, failure to comply with covenants in our debt documents or repay debts when due may negatively affect our credit ratings, which will cause our financing costs to increase and weaken our fundraising capabilities, further affecting our liquidity position and financial condition.

Any inability to obtain the funding for our capital expenditures on commercially acceptable terms could jeopardize our expansion plans and materially and adversely affect our business prospects and future results of operations.

We may not realize the benefits we expect from our investments, which may materially and adversely affect our business, financial condition, results of operations and prospects.

We have made significant capital investments in our network infrastructure and information technology systems. To continue developing our business and offer more attractive and innovative services/solutions, we intend to continue making substantial capital expenditures in different areas and new technologies. However, customer

acceptance of those new services/solutions may not be at the expected rate or level, or it may be unable to satisfy our customers' demands in time, thus impairing the expected return from our investments.

We cannot assure you that services enabled by the new technologies we are implementing, such as Artificial Intelligence, or AI, Multi-access Edge Computing, or MEC, Open Radio Access Network, and Innovative Optical and Wireless Network, or IOWN, will be accepted by customers as expected. In addition, there might be risks of unforeseen complications in deploying these new services and technologies, and we cannot assure whether anticipated capital expenditures for providing such services will exceed our estimate. These new services and technologies may not be developed/deployed on schedules or may not be accepted by customers or reach expected commercial benefits.

The failure of any of our services to achieve commercial acceptance could result in additional capital expenditures or a reduction in profitability to the extent that we are required under applicable accounting standards to recognize a charge for impairment of assets. Any such charge could materially and adversely affect our financial condition and results of operations. We recognized an impairment loss for investment properties, property, plant and equipment, as well as intangible assets in the past. In 2023, we concluded that the recoverable amount representing the fair value less costs of disposal of investment properties was lower than the carrying amount. Therefore, we recognized an impairment loss of NT\$336 million (US\$10.9 million) for investment properties. Also, in 2023, we evaluated and determined that the recoverable amount of certain property, plant and equipment was nil and recognized an impairment loss of NT\$299 million (US\$9.8 million) as a result.

Furthermore, we cannot assure you that we will be able to maintain control of and consolidate the results of operations of our minority-owned subsidiaries. For example, we consolidated the results of operations of SENAO because we have remained in control over SENAO's relevant activities and the governance of the entity. Please refer to Note 3 and Note 14 to our consolidated financial statements included in this annual report for details. We might be unable to maintain control over SENAO's relevant activities, which could adversely affect our consolidated results of operations and ability to meet the operating results guidance that we have projected.

We may also make equity investments in companies from time to time, but we cannot assure you of their profitability and whether any losses related to our equity investments will not have a material adverse effect on our financial condition or results of operations. For example, we invested in Next Commercial Bank Co., Ltd., or NCB, in 2020. Although NCB launched its services on March 29, 2022 and serves as a pivotal strategic investment for our company's fintech strategy, it has yet to generate profits.

Our largest stockholder may take actions that conflict with our public stockholders' best interests.

As of December 31, 2023, our largest shareholder, the government of the ROC, through the MOTC, owned approximately 35.29% of our outstanding common shares. Accordingly, the government, through its control over our board, as all non-independent board members were appointed by the MOTC, may continue to have the ability to control our business, including matters relating to:

- any sale of all or substantially all of our assets;
- the approval of our annual operation and projects budget;
- the composition of our senior management;
- the timing and distribution of dividends;
- the election of a majority of our directors; and
- our business activities and direction.

We cannot assure you that our largest shareholder will not take actions that impair our ability to conduct our business competitively or conflict with the best interests of our public stockholders.

Any outbreak of contagious diseases may materially and adversely affect our business and operations, as well as our financial condition and results of operations.

Any outbreak of contagious diseases, such as COVID-19, influenza, Zika virus, dengue fever or Ebola virus, may disrupt our ability to adequately staff our business and disrupt our operations. If any of our employees is suspected of having contracted any contagious disease, we may, under certain circumstances, be required to implement a work-from-home policy or quarantine such employees and the affected areas of our premises. As a result, we may have to temporarily suspend part or all of our operations. For example, we implemented a work-from-home policy during the COVID-19 pandemic to protect our employees and transitioned our employees to work remotely.

Any outbreak may also restrict the extent of economic activity in affected regions. For example, during the COVID-19 pandemic, many governments over the world adopted measures such as travel restrictions and quarantine policies. Although the outbreak of the COVID-19 has subsided, its effects may last for a long time. The resurgence or occurrence of any contagious diseases and the adoption of similar measures may have a material adverse effect on our business, financial condition and results of operations.

Actual or perceived health risks related to mobile handsets and base stations could lead to decreased mobile service usage and difficulties in increasing network coverage and could expose us to potential liability.

According to some published reports, the electromagnetic signals from mobile handsets and cellular base stations may pose health risks or interfere with the operation of electronic equipment. Although the findings of those reports are disputed, actual or perceived risks of using mobile communications devices or of cellular base stations could have a material adverse effect on mobile service providers, including us. For example, our customer base could be reduced, our customers may reduce their usage of our mobile services, we could encounter difficulties in obtaining sites for additional cellular base stations required to expand our network coverage or we may be requested to reduce the number of existing cellular base stations. As a result, our mobile services business may generate less revenues and our financial condition and results of operations may be materially and adversely affected. In addition, we could be exposed to potential liability for any health problems caused by mobile handsets and base stations.

If we fail to maintain a good relationship with our labor unions, work stoppages or labor unrest could occur and the quality of our services as well as our reputation could suffer.

In accordance with the articles of association of Chunghwa Telecom Workers' Union, except for the chief manager of each department, most of our employees are members of our principal labor union, the Chunghwa Telecom Workers' Union. Since our incorporation in 1996, we have experienced disputes with our labor unions on issues such as employee benefits and retirement benefits in connection with our privatization as well as the right to protest. In spite of having taken measures to improve relations, increase cooperation and ensure mutual benefit with our labor unions, such as increasing channels of communications by holding periodic labor resource review meetings and guaranteeing our labor unions a seat on our board of directors, we cannot assure you that we will be able to maintain a good relationship with our labor unions. Any deterioration in our relationship with our labor unions could result in work stoppages, strikes or threats to take such an action, which could disrupt our business and operations, materially and adversely affect the quality of our services and harm our reputation.

Our business and operation may be adversely impacted if we fail to achieve and maintain effective internal control or if our independent registered public accountants are unable to attest to or express an unqualified opinion on the effectiveness of our internal controls over financial reporting.

We are subject to the reporting requirements of the SEC. The SEC, as directed by Section 404 of the U.S. Sarbanes-Oxley Act of 2002, adopted rules requiring U.S. public companies to include a report of management on our internal control over financial reporting in their annual reports that contain an assessment by management of the effectiveness of our internal control over financial reporting. The effectiveness of our internal control over financial reporting has been audited by Deloitte & Touche, an independent registered public accounting firm, which has also audited our consolidated financial statements for the year ended December 31, 2023. Deloitte & Touche has issued an attestation report on the effectiveness of our internal control over financial reporting in accordance with the

standards of the Public Company Accounting Oversight Board (United States). See "Item 15. Controls and Procedures—Attestation Report of the Registered Public Accounting Firm."

We are also required to comply with various ROC and U.S. laws and regulations on internal controls, but our internal controls, including policies and procedures, may not prevent or detect misstatements or misconduct because of their inherent limitations, including the possibility of human error, the circumvention or overriding of controls, fraud or corruption.

While the management report included in this annual report concluded that our internal control over financial reporting was effective, we cannot assure you that our management will be able to conclude that our internal control over financial reporting will be effective in future years, and that our internal controls can prevent fraud and corruption. If in future years we fail to maintain effective internal controls in accordance with the Sarbanes-Oxley Act or other applicable laws, or if we are found not to be in compliance with applicable laws, we could face investigations or other enforcement actions, be subject to criminal, administrative, and civil penalties and other remedial measures, suffer a loss of investor confidence in the reliability of our consolidated financial statements, which in turn could negatively impact the trading price of our ADSs, and could result in lawsuits being filed against us by our stockholders, lead to adverse impact on our business, or otherwise harm our reputation.

Any decline in the Taiwan economy, downturn in the global ICT and technology industry, geopolitical uncertainty or slowdown in global economic growth may materially and adversely affect our financial condition, results of operations and prospects.

Our business depends on economic growth, and we conduct most of our operations and generate most of our revenues in Taiwan. We cannot assure you that the economic conditions in Taiwan will continue to improve in the future, and any uncertainty or further deterioration in Taiwan's economic conditions could have a material adverse effect on our financial condition and results of operations. In addition, Taiwan's economy is highly dependent on the global technology industry. Although we have adopted a variety of measures to mitigate risks associated with the global ICT and technology industry, any downturn in the global ICT and technology industry, including but not limited to, global supply chain disruption, interest rate fluctuation, inflation or deflation and changes in economic, fiscal and monetary policies in major economies, exchange rate fluctuation and risk of recession may have a material adverse effect on Taiwan's economy, which in turn could adversely affect the demand for our products and services.

There are also concerns over tensions, armed conflicts, wars, civil unrest, election results and geopolitical uncertainty in various regions, such as Russia-Ukraine War, Israel-Palestine Conflict, the Middle East, Asia Pacific and the Central Asia region, which have resulted or could result in increased economic volatility and in increasing costs of cybersecurity and network maintenance. The economic slowdown in Mainland China and the U.S. could also have a material adverse effect on economies around the world. In particular, there have been increasing concerns over the global economic slowdown, disputes between the U.S. and Mainland China and global climate change issues, all of which could cause turbulence in the international and Taiwan's financial markets and the global technology industries. Although we conduct most of our operations and generate most of our revenues in Taiwan, any slowdown in global economic growth may materially and adversely affect our financial condition, results of operations and prospects.

We are subject to litigation or other legal proceedings that could expose us to substantial liabilities.

We are from time to time involved in various litigation, arbitration or administrative proceedings in the ordinary course of our business. Any such claims, whether with or without merit, asserted or threatened, could be time-consuming and expensive to defend and could divert our management's attention and resources. See "Item 4. Information on the Company—B. Business Overview—Legal Proceedings." We cannot predict the outcome of these proceedings, and we cannot assure you that if a judgment is rendered against us in any or all of these proceedings, our financial condition and results of operations would not be materially and adversely affected.

Our operation may be interrupted, and our expansion may be limited, by power or utility shortage.

Our operation requires a continuous supply of utilities such as electricity and water. Interruptions of electricity or water supply could result in temporary shutdowns of our operation. We may from time to time suffer power outages or surges in Taiwan caused by difficulties encountered by the public utility or other power consumers on the same power grid. Some of these have resulted in interruptions to our operations. Any major suspension, shortage or termination of electricity supply could significantly harm our business, results of operations and financial condition. If we are unable to secure reliable and uninterrupted supply of electricity in Taiwan, our services may be interrupted. Furthermore, we may suffer from a shortage of water in Taiwan, and we may need to incur additional costs and expenses to respond to such shortages in order to maintain our operations and services. Such incremental costs may affect our profitability and results of operations.

Our success depends on our ability to attract and retain quality personnel.

In response to the rapidly evolving industry in which we operate, we need to continuously attract and retain skilled technical personnel, and we also depend on the continued service of our executive officers. Our business could suffer if we fail to attract qualified personnel or adequately replace them, and thus lose the services of any of these personnel. In particular, we could not afford the loss of any of our talents since attracting qualified talents is increasingly difficult. Moreover, any expansion by industry players may intensify the demands for qualified and experienced personnel in the Taiwan telecommunications industry. All the major three telecom operators in Taiwan, including us, are expanding the Information and Communication Technology, or ICT, business in areas such as cybersecurity, cloud, AIoT, IDC and big data analysis and may increase the number of their employees as part of this expansion. In addition to telecom operators, some computer design companies and manufacturers are also expanding their business into these areas and have been recruiting information technology-related employees as well. We may also need to increase employee compensation levels to attract and retain personnel, which in turn could result in an increase in our operating costs. We cannot assure you that the loss of the services of any of these personnel would not disrupt our business and operations and materially and adversely affect the quality of our services and harm our reputation.

We face substantial political risks associated with doing business in Taiwan, particularly due to domestic political events and the tense relationship between the ROC and the People's Republic of China, which could adversely affect our financial condition and results of operations.

Our principal executive offices and substantially all of our assets are located in Taiwan, and substantially all of our revenues are derived from our operations in Taiwan. Accordingly, our business, financial condition and results of operations and the market price of our common shares and the ADSs may be affected by changes in ROC governmental policies, taxation, inflation or interest rates and by social instability and diplomatic and social developments in or affecting Taiwan, which are outside of our control.

Taiwan has a unique international political status. Since 1949, Taiwan and Mainland China have been separately governed. The People's Republic of China, or PRC, claims that PRC is the sole legitimate government in China, and Taiwan is a part of China. In addition, the PRC government has refused to renounce the use of military force to gain control over Taiwan. Past developments in relations between the ROC and the PRC have on occasion depressed the market prices of the securities of companies in the ROC. Relations between the ROC and the PRC and other factors affecting military, political or economic conditions in Taiwan could materially and adversely affect our financial condition and results of operations, as well as the market price and the liquidity of our securities. In addition, the complexities of the relationship between the ROC and PRC require companies involved in cross-strait business operations to carefully monitor their actions and manage their relationships with both ROC and PRC governments. We cannot assure you that we will be able to successfully manage our relationships with the ROC and PRC governments for our cross-strait business operations, which could have an adverse effect on our ability to expand our business and conduct cross-strait business operations.

Stockholders may have more difficulty protecting their interests under the laws of the ROC than they would under the laws of the U.S.

Our corporate affairs are governed by our Articles of Incorporation, the TMA, and by the laws governing corporations incorporated in the ROC. See "—Extensive regulation of our industry may limit our flexibility to respond to market conditions and landscape, and our business and revenues may suffer." The rights of stockholders

and the responsibilities of management and the members of the board of directors of Taiwan companies are different from those applicable to a corporation incorporated in the U.S. For example, controlling or major stockholders of Taiwan companies do not owe fiduciary duties to minority stockholders. As a result, holders of our common shares and ADSs may have more difficulties protecting their interests in connection with actions taken by our management or members of our board of directors than they would as public stockholders of a United States corporation.

Our actual financial results may differ materially from our published guidance.

Starting in 2013, we continued to voluntarily publish our operating results guidance on an annual basis in accordance with the Taiwan IFRSs. We may from time to time update our operating results guidance after evaluating the effects of any changes to the estimates and assumptions that we used to calculate the projections of our operating results. Our projections are based on a number of estimates and assumptions that are inherently subject to significant uncertainties and contingencies, including the risk factors described in this annual report. In particular, our projections are forward-looking statements that are necessarily speculative in nature, and it can be expected that one or more of the estimates on which the projections were based will not materialize or will vary significantly from actual results, and such variances will likely increase overtime. Although our revenues, operating income, net income and EPS exceeded our expectations in 2023, our financial results will depend on future developments, which are highly uncertain and cannot be predicted.

Our results of operations and financial condition under Taiwan IFRSs may differ materially from our reported results of operations and financial condition under IFRSs.

While we have adopted Taiwan IFRSs for ROC reporting purposes, we adopt IFRSs for certain filings with the SEC, including our annual reports on Form 20-F. Taiwan IFRSs differs from IFRSs in certain significant respects, including to the extent that any new or amended standards or interpretations applicable under IFRSs may not be timely endorsed by the FSC. Furthermore, the dividends for 2023 that are expected to be declared at our 2024 annual general stockholders' meeting are calculated based on Taiwan IFRSs.

Risks Relating to Ownership of Our ADSs and Common Shares

The value of your investment may be reduced by future sales of our ADSs or common shares by us, by the government of the ROC or by other stockholders.

The government may continue to sell our common shares. Sales of substantial amounts of ADSs or common shares by the government or any other stockholder in the public market, or the perception that future sales may occur, could depress the prevailing market price of our ADSs and common shares.

The market value of your investment may fluctuate due to the volatility of, and government intervention in, the Taiwan securities market.

Our common shares are traded on the Taiwan Stock Exchange, or the TWSE, which has a smaller market capitalization and is more volatile than the securities markets in the U.S. and many European countries. The market value of our ADSs may fluctuate in response to the fluctuation of the trading price of our common shares on the TWSE. The TWSE has experienced substantial fluctuations in the prices and trading volumes of listed securities, and there are currently limits on the range of daily price movements. In 2023, the TWSE Index reached a low of 14,199.13 on January 4, 2023, and peaked at 17,930.81 on December 29, 2023. On April 8, 2024, the TWSE Index closed at 20,417.70. The TWSE has experienced certain problems, including market manipulation, insider trading and payment defaults. The recurrence of these or similar problems could have a material adverse effect on the market price and liquidity of the securities of Taiwan companies, including our ADSs and common shares, in both the domestic and the international markets.

In response to declines and volatility in the securities markets in Taiwan, the government of the ROC formed the National Financial Stabilization Fund to support these markets through open market purchases of shares in Taiwan companies from time to time. The details of the transactions of the National Financial Stabilization Fund have not been made public. In addition, the government's Labor Insurance Fund and other funds associated with the government have in the past purchased, and may from time to time purchase, shares of Taiwan companies listed on

the TWSE or other markets. As a result of these activities, the market price of common shares of Taiwan companies may have been and may currently be higher than the prices that would otherwise prevail in the open market. Market intervention by government entities, or the perception that such activity is taking place, may take place or has ceased, may cause sudden movements in the market prices of the securities of Taiwan companies, which may affect the market price and liquidity of our common shares and ADSs.

We may be sanctioned or the network establishment approval granted to us may be abolished for violations of limits on foreign ownership of our common shares, and these limits may materially and adversely affect our ability to obtain financing.

According to the TMA, which was effective from July 1, 2020 (excluding certain articles regarding frequency allocation that was set effective from November 1, 2020), the total amount of our shares directly held by foreigners shall not exceed 49%, and the total amount of our shares directly and indirectly held by foreigners shall not exceed 60%. As of April 8, 2024, foreign direct holdings of our outstanding share capital was at approximately 15.84%. If we fail to comply with the applicable foreign ownership limitations, the network establishment approval granted to us may be abolished. We cannot predict the manner in which the NCC will exercise its authority over us in the case of a violation, or whether the NCC will lower the foreign ownership cap at any time.

If we are deemed to be in violation of our foreign ownership limitations, any consequences arising from such violation may materially and adversely affect us. Moreover, since we are unable to control ownership of our common shares or ADSs representing our common shares, and we have no ability to stop transfers among stockholders, or force particular stockholders to sell their shares, we may be subject to monetary fines, or the network establishment approval granted to us may be abolished, even if there is no fault of our own. In that event, our business could be disrupted, our reputation could be damaged and the market price of our ADSs and common shares could decline. These limitations may also materially and adversely affect our ability to obtain adequate financing to fund our future capital requirements or to obtain strategic partners, and alternate forms of financing may not be available on terms favorable to us, or at all.

Restrictions on the ability to deposit our common shares into our ADS program may adversely affect the liquidity and price of the ADSs.

The ability to deposit our common shares into our ADS program is restricted by ROC law, under which no person or entity, including you and us, may deposit our common shares into our ADS program unless the Securities and Futures Bureau has not objected within a prescribed period following the filing with it of an application to do so, except for the deposit of the common shares into our ADS program and for the issuance of additional ADSs in connection with:

- distribution of share dividends or free distribution of our common shares;
- exercise of preemptive rights of ADS holders applicable to the common shares evidenced by our ADSs in the event of capital increases for cash; or
- purchases of our common shares in the TWSE by the investor directly or through the depositary and delivery of such common shares or delivery of our common shares held by such investors to the custodian for deposit into our ADS program, subject to the following conditions: (a) the depositary may accept deposit of those shares and issue the corresponding number of ADSs with regard to such deposits only if the total number of ADSs outstanding after the deposit does not exceed the number of ADSs previously approved by the Securities and Futures Bureau, plus any ADSs issued pursuant to the events described above; and (b) this deposit may only be made to the extent previously issued ADSs have been cancelled.

As a result of the limited ability to deposit common shares into our ADS program, the prevailing market price of our ADSs on the New York Stock Exchange, or NYSE, may differ from the prevailing market price of the equivalent number of our common shares on the TWSE.

You will be more restricted in your ability to exercise voting rights than the holders of our common shares, which may diminish your influence over our corporate affairs and may reduce the value of your ADSs.

Holders of American depositary receipts evidencing our ADSs may exercise voting rights with respect to the common shares represented by these ADSs only in accordance with the provisions of our deposit agreement. The deposit agreement provides that, upon receipt of notice of any meeting of holders of our common shares, the depositary bank will, as soon as practicable thereafter if requested by us in writing, mail to ADS holders the notice of the meeting sent by us, voting instruction forms and a statement as to the manner in which instructions may be given by the holders.

Generally, ADS holders will not be able to exercise voting rights attached to the underlying securities on an individual basis. Under the deposit agreement, the voting rights attached to the underlying securities must be exercised as to all matters subject to a vote of stockholders collectively in the same manner, except in the case of an election of directors. The election of our directors is by means of cumulative voting. In the event the depositary does not receive voting instructions from ADS holders in accordance with the deposit agreement, our chairman or his or her designee will be entitled to vote the common shares represented by the ADSs in the manner he or she deems appropriate at his or her discretion, which may not be in your interest.

Your right to participate in any future rights offerings may be limited, which may cause dilution to your holdings.

We may from time to time distribute rights to our stockholders, including rights to acquire our securities. Under the deposit agreement, the depositary will not offer you those rights unless the distribution to ADS holders of both the rights and any related securities are either registered under the U.S. Securities Act of 1933, as amended, or the Securities Act, or exempt from registration under the Securities Act. We are under no obligation to file a registration statement with respect to any such rights or securities or to endeavor to cause such a registration statement to be declared effective. Moreover, we may not be able to establish an exemption from registration under the Securities Act. Accordingly, you may be unable to participate in our rights offerings and may experience dilution in your holdings.

If the depositary is unable to sell rights that are not exercised or not distributed or if the sale is not lawful or reasonably practicable, it will allow the rights to lapse, in which case you will receive no value for these rights.

Changes in exchange controls that restrict your ability to convert proceeds received from your ownership of ADSs may have an adverse effect on the value of your investment.

Your ability to convert proceeds received from your ownership of ADSs depends on existing and future exchange control regulations of the ROC. Under the current laws and regulations of the ROC, an ADS holder or the depositary, without obtaining further approvals from the Central Bank of the ROC (Taiwan) or any other governmental authority or agency of the ROC, may convert NT dollars into other currencies, including U.S. dollars, in respect of:

- the proceeds of the sale of common shares represented by ADSs or received as share dividends with respect to the common shares and deposited into the depositary receipt facility; and
- any cash dividends or distributions received from the common shares represented by ADSs.

In addition, the depositary may also convert into NT dollars incoming payments for purchases of common shares for deposit in the depositary receipt facility against the creation of additional ADSs. If you withdraw the common shares underlying your ADSs and become a holder of our common shares, you may convert them into NT dollars subscription payments for rights offerings. The depositary may be required to obtain foreign exchange approval from the Central Bank of the ROC (Taiwan) on a payment-by-payment basis for conversion from NT dollars into foreign currencies of the proceeds from the sale of subscription rights of new common shares. Although it is expected that the Central Bank of the ROC (Taiwan) will grant approval as a routine matter, required approvals may not be obtained in a timely manner, or at all.

Under the ROC Foreign Exchange Control Law, the Executive Yuan of the ROC may, without prior notice but subject to subsequent legislative approval rendered within ten days from such imposition, impose foreign

exchange controls or other restrictions in the event of, among other things, a material change in domestic or international economic conditions which might threaten the stability of the domestic economy in Taiwan.

You are required to register with the TWSE and appoint several local agents in Taiwan if you withdraw common shares from our ADS facility and become our stockholder, which may make your ownership burdensome.

If you are a non-ROC person and wish to withdraw common shares represented by your ADSs from our ADS facility and hold those common shares, you are required under the current laws and regulations of the ROC to appoint an agent, also referred to as a tax guarantor, in the ROC for filing tax returns and making tax payments. A tax guarantor must meet certain qualifications set by the Ministry of Finance of the ROC and, upon appointment, becomes a guarantor of your ROC tax obligations. If you wish to repatriate profits derived from the sale of withdrawn common shares or cash dividends or interest on funds derived from the withdrawn common shares, you will be required to submit evidence of your appointment of a tax guarantor and the approval of the appointment by the ROC tax authorities. You may not be able to appoint and obtain approval for a tax guarantor in a timely manner.

In addition, under the current laws of the ROC, you will be required to be registered as a foreign investor with the TWSE for making investments in the ROC securities market prior to your withdrawal and holding of common shares represented by the ADSs. You will be required to appoint a local agent in Taiwan to, among other things, open a securities trading account with a local securities brokerage firm and a bank account to remit funds, exercise stockholders' rights and perform other functions as holders of ADSs may designate. You must also appoint a local bank to act as custodian for handling confirmation and settlement of trades, safekeeping of securities and cash proceeds and reporting and declaration of information. Without the relevant registration and appointment of the local agent and custodian and the opening of a securities trading account and bank account, you will not be able to hold, subsequently sell or otherwise transfer our common shares withdrawn from the ADS facilities on the TWSE.

ITEM 4. INFORMATION ON THE COMPANY

A. History and Development of the Company

Our legal and commercial name is Chunghwa Telecom Co., Ltd. We were officially established on July 1, 1996 as part of the privatization efforts by the government of the ROC and operate under the Statute of Chunghwa Telecom Co., Ltd. Prior to our formation, we were operating as a business unit of the Directorate General of Telecommunications, which was the predecessor of the NCC. The common shares of the Company have been listed on the TWSE under the trading code "2412" since October 2000 and its ADSs have been listed on the NYSE under the symbol "CHT" since July 2003. We were privatized as a result of a secondary ADS offering and concurrent domestic auction of our common shares on August 12, 2005, as the ownership by the government of the ROC was reduced to less than 50%. The privatization has enabled us to develop our business and respond to changing market conditions more rapidly and efficiently. Today, we are the largest full telecommunication service provider in Taiwan. Our principal executive offices are located at 21-3 Xinyi Road, Section 1, Taipei 10048, Taiwan, ROC, and our telephone number is (886) 2-2344-5488. Our website address is at: https://www.cht.com.tw. The information contained on our website is not incorporated herein by reference and does not constitute part of this annual report. Our agent for service of process in any suit or proceeding arising out of or relating to our shares, ADSs, American depositary receipt, or ADR, and deposit agreement in the U.S. is Cogency Global Inc., located at 122 East 42nd Street, 18th Floor, New York, NY 10168.

We are the largest telecommunications service provider in Taiwan and one of the largest in Asia in terms of revenues. As an integrated telecommunications service provider, our principal services include: mobile services, fixed-line services, ICT business, sales and other services.

We accomplished our strategic transformation in 2022 and started to operate under the new customer-centric structure to enhance our performance. In particular, our Consumer Business Group strategically focuses on individual, home-centric and family services to provide better customer experiences. Our Enterprise Business Group consolidates and streamlines our enterprise business-related services to create synergy and enhance our integrated ICT services. Our International Business Group focuses on serving our international customers and expanding our overseas business.

We enjoy leading positions across a number of areas in terms of both revenues and customers. We are Taiwan's largest service provider in fixed communications, mobile communications, broadband access and internet service. As for the IPTV service, our MOD service is the largest video platform in Taiwan in terms of the number of customers. In 2023, our revenues were NT\$223.2 billion (US\$7.3 billion), our consolidated net income was NT\$38.1 billion (US\$1.2 billion) and our basic earnings per share was NT\$4.76 (US\$0.16).

In 2023, we made capital expenditures totaling NT\$30.7 billion (US\$1.0 billion). See "Item 5. Operating and Financial Review and Prospects—B. Liquidity and Capital Resources—Capital Expenditures" for a detailed discussion of our capital expenditures.

Competitive Strengths

We believe that our primary competitive strengths are:

- our position as an integrated, full-service telecommunications provider as well as ICT service provider and our premium brand and broad customer base in Taiwan; and
- our capital resources and leading technology capabilities.

We are an integrated full-service telecommunications provider as well as ICT service provider and have premium brand and broad customer base in Taiwan.

We are the largest telecommunications service provider in Taiwan with a leading position in fixed communications services, mobile communications services, internet services, and video services. We are also a major ICT service provider in areas such as cybersecurity, cloud, AIoT, IDC and big data analysis.

Broad range of communications products and services. We are confident with our ability to provide an attractive and comprehensive range of both telecommunications services and ICT total solutions to our business customers. In addition, we are able to offer innovative and customized ICT services and attractive tariff packages to deliver customer-centric services.

Broad network coverage. In order to provide higher bandwidth services for our customers, we have been constructing our fiber to the x, or FTTx, network since 2003. We have successfully migrated many of our customers to higher-speed FTTx service. As of December 31, 2023, network coverage of FTTx with speeds of 1 Gbps and higher was approximately 93.7%. In addition, our 4G/5G mobile communications networks provide nationwide coverage. Our large mobile spectrum allocation, together with our extensive network coverage, positions us well for the continued expansion of our mobile services in Taiwan. We are also continuing to build our Wi-Fi network to offload mobile network capacity in residential and public areas with high subscriber density and usage, such as business districts, transportation hubs, airports and convenience stores. We aim to provide seamless broadband connections to better serve our customers. To facilitate working-from-home arrangements during the outbreak of the COVID-19 pandemic, we launched fiber optic internet service with speeds up to 2 Gbps on both downloading and uploading in 2021.

Brand awareness, distribution channels and customer service. Our brand, "Chunghwa Telecom," has a reputation for quality, reliability and sustainability. We serve our large customer base through our extensive customer service network in Taiwan. See "—B. Business Overview—Marketing, Sales and Distribution—Sales and Distribution." Our extensive sales and distribution channels help us attract additional customers and develop new business opportunities. We eagerly enhance user experience at different channels. We integrate our online store and offline channels, with our big data capability, to accelerate the development of our Online-to-Offline business. To enhance customers' online experience, we provide customized online purchase processes by leveraging our capability to analyze big data, and accurately analyze customer preferences and behaviors, and target different customer groups for implementing accurate marketing initiatives to improve sales success rates and reduce marketing costs. Customers can apply for various services online through websites or apps, and make queries with us in real time. We also provide an online shopping platform, where consumers can purchase telecom tariff plans, smartphones and smart home appliances at the same time. In addition, customers can also order online and enjoy quality services at designated offline stores to save waiting time.

In 2023, we obtained several international awards which recognized our strong operational capabilities, service quality and ESG practices. We were once again included in the Dow Jones Sustainability World Index and ranked as the top-rated company in the global telecommunications industry. We were the only telecommunications company reaffirmed by S&P Global with the highest long-term credit rating (AA). We obtained The Asset ESG Corporate Jade Award from The Asset for three consecutive years. In addition, we were recognized by Speedtest as the quadruple crown in Taiwan for Best Mobile Coverage for six consecutive years, Fastest 5G network for three consecutive years, Widest 5G Coverage, and Best Mobile Gaming Experience. Moreover, we were recognized with ten championships in Taiwan by Opensignal, including Fastest Mobile/Fastest 5G network, Best Mobile/Best 5G Coverage Experience, 5G Gaming Experience, etc. In 2023, we were also awarded the Telecom of the Year Award, 5G Services Customer Value Leadership Award, and Data Center Services Company of the Year Award in Taiwan by Frost & Sullivan. Furthermore, we were on the "2023 Global 500" ranking that Brand Finance unveiled and were the only Taiwanese telecom operator featured on the list, and we won the World Branding Awards from the World Branding Forum in 2023 as the only Taiwanese telecom operator awarded.

Professional management and outstanding talents. Our management and employees have extensive operating experience and technical knowledge for the future growth of emerging businesses. We also believe we will continue to attract and retain high-quality information technology talents.

We have the capital resources and technology to retain our leading position.

Strong capital structure. We have great financial resources in Taiwan. Our low debt-to-equity capital structure, together with our strong operating cash flows, provides us with the flexibility and resources to invest in capital-intensive and growing businesses. We started to construct our 5G base stations in the first half of 2020 and continue to enhance our existing 4G/5G mobile broadband networks, our expansion of FTTx broadband access services, IP-based MOD/Hami Video services, fixed-line/mobile value-added services, or VAS, ICT-related services and service platforms. We also deploy Narrowband-IoT and LTE Cat-M1 networks for IoT applications. Furthermore, we signed an exclusive distribution agreement for OneWeb Low Earth Orbit, or LEO, satellite service at the end of 2023, which will enhance the resilience of our communication network. Our strategy is to invest in or acquire emerging growth companies to further expand our business to retain our leading position in the future, such as cybersecurity, IDC/cloud and AIoT strategic businesses. We will continue to construct facilities of data center and cloud services and will cooperate with international public cloud service providers, including Google Cloud Platform, or GCP, Amazon Web Service, or AWS, and Microsoft Azure, to deliver hybrid cloud solutions to enterprise customers in order to be a leading IDC and multi-cloud service provider in Taiwan. In addition, we will continue to construct new submarine cables linking the U.S. and Asia-Pacific region, as well as expand the bandwidth of outbound connections and enhance network strength to attract more OTT services providers to increase their investments in Taiwan.

Advanced network technology. By the end of 2023, more than 93.7% of households in Taiwan can enjoy ultrafast connectivity with our FTTH network. We will still expand FTTH network coverage of households in 2024, based on the requirement of ultra-fast connectivity service in Taiwan. In 2023, we also continued to enhance our 4G/5G mobile broadband networks. Our investment in network infrastructure places us in a position to capture a significant share of the internet and high-speed data transmission market. We have developed MEC technology and successfully launched it to the market, enabling us to maintain a market-leading position in the 5G private network.

Research and development expertise. In 2023, our research and development expenses accounted for 1.7% of our revenues. See "Item 5. Operating and Financial Review and Prospects—C. Research and Development, Patents and Licenses" for descriptions about areas of our research and development. We believe our focus on research and development will allow us to efficiently develop and deploy new technologies and services ahead of our competitors.

Business Strategies

Our three major visions are: "becoming an international benchmark enterprise based on sustainable development, becoming a leading brand of digital ecosystem co-creators, and becoming a top-notch technology conglomerate with a market value surpassing a trillion NTD."

To achieve these visions, for individual- and home-centric businesses, we are devoted to promoting innovative and sustainable smart life to achieve the strategic objectives of maintaining our leading position in Taiwan and creating a new growth curve. For enterprise business, we continue to implement sustainable transformation, drive digital transformation, and develop seven innovative technologies, namely AIoT, big data, cloud/IDC, data security, edge computing, fifth gen. mobile network, and generative AI, to advance the innovation and growth for businesses. In terms of international business, we commit to positioning Taiwan as the Asia-Pacific information hub, teaming up with Taiwanese companies to extend global footprint and fostering collaborations abroad to expand our market shares worldwide.

Consistent with our strategic objectives, we have developed the following business strategies:

Focus on our core strengths while expanding our scope of services to capture new growth opportunities

We endeavor to maintain our strong market position in telecommunication business and seek to expand the scope of our business beyond network services by offering service platforms and VAS to capture new opportunities and generate revenue growth, such as IoT platforms and cloud platforms. We also continue to enhance our MOD/OTT service platform, which offers digital contents, live broadcasting and subscription video on demand, or SVoD, services.

Broadband services: We strive to maintain our broadband market share and enjoy the increase of average revenue per user, or ARPU, for our FTTx internet services. We believe customer demands owing to digital transformation will continue and we will grasp those opportunities from the trend. Over the years, we are continuously encouraging more migration of our FTTx subscribers to higher-speed FTTx service to further enhance our ARPU. We continue to build our FTTH infrastructure, and we believe these efforts will help us maintain our advantages in broadband services. A high-quality fixed broadband network is also essential for our high-definition MOD services.

Video services: We provide attractive and user-centric entertainment experience for our customers by offering 4K high-quality videos, self-selected channel mechanisms and multi-screen options on MOD and 5G service on Hami Video. We also expect to further expand our contents and applications to serve more customers by enhancing the partnerships with our key content providers. In 2023, we acquired broadcasting rights for international channels and contents, while also intensifying investment in both localized and international content. This includes expanding our acquisition of key exclusive content to attract a larger customer base. Moving forward, we will actively promote Taiwanese channels and content on the global platform.

Mobile Communications: We successfully launched 5G services in Taiwan in 2020. Our strategy for mobile services includes the following initiatives:

- integrating digital life value-added services and innovative services while improving 4G/5G mobile network quality to increase 5G penetration rate and ARPU;
- reallocating resources to encourage mobile subscriptions toward high-end plans;
- deploying home Wi-Fi which complements mobile networks to improve indoor coverage; and
- leveraging our 5G, AI, LTE Cat-M1, Narrowband IoT and technology capabilities, such as cooperating with potential partners and developing future 5G AIoT business.

ICT business: Leveraging our core telecommunication infrastructure and services to expand ICT services, we aim to become a leading provider of smart life and an enabler of digital economy, and to expand international business. In order to drive the development of multiple emerging ICT services (e.g., smart city, smart manufacturing, smart energy and smart transportation), we focus on high-quality platforms, building customercentric ecosystems with key partners, and making strategic investments, mergers and acquisitions. With the strength and reliability of our technologies and services, we will gain a comparative edge to continue expanding our ICT business in the future.

Emphasize quality of service and customer satisfaction

Quality of service is critical in attracting and retaining customers and enhancing our long-term profitability. In order to continuously enhance and improve the quality of our services, we have, in addition to the quality assurance function of our regular operating units, established a number of dedicated task forces to monitor our network performance. Our senior management sets our quality evaluation criteria and regularly reviews the quality of our performance.

To ensure customer loyalty and achieve customer-centric spirit with high-quality services, we consistently focus on and invest in the optimization of the entire customer journey. In terms of network quality, we constantly strive for precise expansion and create seamless coverage of the three networks, including fixed networks, mobile networks and Wi-Fi, to cater to high-speed Internet access demand. We develop new data-driven approaches to strengthen customer engagement and retention to enhance customer stickiness. Through accurate labeling and big data analytics of customer intentions, we push forward data-driven service process optimization and target customer segment marketing and caring. We also establish online and offline multiple service networks for customer service touchpoints and provide 7x24 all-around professional services and feedback channels to enhance customer experience and satisfaction.

Improve operational and cost efficiency

We continue to focus on cost control and improve our cost efficiency by leveraging our IT capabilities and cloud resources to enable more advanced networks:

- strengthening digital capabilities: leveraging AI and big data technologies to build smart and automated services, optimize customer experience and speed up processes;
- optimizing business operations support system service efficiency: migrating information systems into the cloud, sharing information technology resources; and
- expanding usage of information resources: building up a centralized, digitalized and specialized procurement process to enhance cost efficiency.

Our long-term goal is to optimize our capital expenditures by focusing on investing in innovative products and services with attractive return profiles. We continue the construction of our fiber-based fixed-line and mobile network to increase the network bandwidth and enhance operational efficiencies. We will continue to leverage our core telecommunication infrastructure and services to expand the ICT business, including 5G services, IDC services, PSTN migration, international submarine cable services, cloud services, total enterprise solutions and government projects.

Expand our business through alliances, acquisitions and investments

We continuously expand our business in growth areas, such as ICT services, through alliances, acquisitions and investments. We believe that our experience, operational scale and large customer base make us an attractive ally for other service providers.

Alliances. We have formed and will continue to pursue alliances with content providers, video service platform providers, customer premises equipment providers, internet portal operators and ICT solutions partners to diversify our business operations and enhance our service offerings. We cooperated with Microsoft to create AIoT Smart Ecosystem. In March 2023, we cooperated with Nokia and Ericsson to deepen our 5G strategic collaboration on the next stage of "Beyond 5G" evolution and create a green network with high efficiency and low energy consumption. In September 2023, following the first phase of telemedicine project starting from May 2022, a memorandum of understanding, or MOU, for the second phase was signed among our Thai subsidiary, Overbrook Hospital in northern Thailand, and Overseas Medical Mission Center of Changhua Christian Hospital. In October 2023, we signed a MOU with NTT Corporation on IOWN to carry out closer cooperation in IOWN technology and business, and to accelerate the IOWN evolution. These partnerships mark the realization of our commitment to gradually implement and enhance healthcare equity and digital transformation on an international scale, and contribute to a prosperous society that can embrace diversity.

Acquisition and Investments. We have focused our acquisition strategy on making strategic acquisitions of companies that we believe to be fulfilled our long-term strategic goals. We have focused our investment strategy on the development of new businesses and the enhancement of our operational efficiency, especially the aspects of 5G and ICT services. Recently we have entered into the following notable transactions:

We invested in NCB in January 2020 and obtained 41.9% of its equity interests. NCB processed a capital reduction and capital increase in cash of NT\$2.6 billion in December 2023. Therefore, our stake in NCB increased to 46.3% at the end of 2023. We will continue to collaborate with NCB to target specific customer segments, such as the younger demographic, build a customer-centric ecosystem, and jointly develop innovative fintech services.

In December 2023, we invested in KKCompany Technologies Inc., the holding company of KKBOX. On the foundation of our long-established partnership with KKBOX, we expect to create business synergies with KKCompany group, which is now transforming into a technology solution company to offer solutions in the areas including multimedia technologies, digital cloud, and AI applications.

We strengthen our advantages in the public cloud business and generative AI technology through investing in iKala Global Online Corp., or iKala, in February 2024, from which we can further leverage its leading GCP cloud business, cloud SaaS services, such as MarTech, and generative AI technology.

We, in February 2024, established a new wholly-owned investment subsidiary dedicated to handling fundraising and providing investment management and management operations consulting services for cultural content industry funds. With the establishment of such subsidiary, we expect to enrich our IPTV Streaming Service business, explore Taiwan's high-quality film and television audio, cultural creativity and cultural technology, and build a cultural content IP ecosystem.

Going forward, we will focus on the digital economy and innovative businesses and may consider making other equity investments and acquisitions that we believe are complementary to our business and strategic goals. By cooperating with other companies and leveraging our advantages, we strive to gain market share in the 5G, AIoT, cybersecurity, IDC/cloud and cultural film and television content industry. Furthermore, we will continue to explore opportunities to strengthen our cooperation with companies in the ASEAN countries, either in traditional telecommunication business and smart city ICT businesses.

Maintain focus on maximizing stockholder value

We commit to maximizing stockholder value and intend to maintain a sustainable dividend policy. Under the ROC Company Act, companies are allowed to distribute special cash dividends from capital surplus. In addition, the accumulated legal reserve that we had set aside in previous years has amounted to the aggregate par value of our outstanding share capital. Therefore, according to relevant regulations, we are not required to appropriate profits to our legal reserve starting from 2015. With the approval of our board of directors in February 2024, our payout ratio was 100.00% in 2023 earnings. See "Item 8. Financial Information—A. Consolidated Statements and Other Financial Information."

B. Business Overview

Our Principal Lines of Business

General

We have three segments that we operate and manage as strategic business units: consumer business, enterprise business and international business, which provide mobile services, fixed-line services, ICT business, sales and other services.

Consumer Business

Our consumer business strategically focuses on individual- and home-centric businesses, such as mobile, fixed broadband, Wi-Fi, IPTV (MOD) and OTT services. To create value for our customers and provide better customer

experiences, we offer FTTx and ADSL services and enhance customer internet surfing experiences through our value-added services that leverage our Wi-Fi advantage as well as IPTV (MOD) and OTT (Hami Video) offerings. We have the largest mobile subscriber base in Taiwan with solid network performance. We are the largest internet service provider, or ISP, and also the largest video platform in Taiwan.

Enterprise Business

Our enterprise business focuses on creating synergy and enhancing our integrated ICT services. It also promotes the development of emerging businesses, which focus on cloud, IDC, information security, 5G+AIoT, enterprises' digital transformation and system integration. We have a large customer base of high-quality enterprises, including both business-to-business and business-to-consumer customers. Our enterprise business team identifies market insights to provide a variety of enterprise business-related services to satisfy our customers. We are the largest IDC services provider in Taiwan, with an IDC market share of more than 50% and the leading cybersecurity service company in the market.

International Business

Our international business focuses on serving our international customers. Our international customers include Taiwanese companies seeking global expansion, large Taiwanese enterprises located in foreign countries, foreign companies and multinational enterprises. As the largest submarine cable service provider in Taiwan, together with our international submarine cable stations, overseas subsidiaries, strategic partners and alliances, we are well positioned to help our customers to capture global market opportunities by providing our diversified product portfolio and service offerings, including communication service, leased circuits, IDC, cloud, cross-border IoT, roaming, broadband, 5G and smart solutions.

Service and Product Offerings

As an integrated telecommunications service provider, our principal services include: mobile services, fixed-line services, ICT business, sales and other services.

Mobile Services

We are Taiwan's largest provider of mobile services in terms of both revenues and subscribers. In 2021, we generated revenues of NT\$58.0 billion, or 27.6% of our total revenues, from mobile services. In 2022, we generated revenues of NT\$61.1 billion, or 28.2% of our total revenues, from mobile services. In 2023, we generated revenues of NT\$65.0 billion (US\$2.1 billion), or 29.1% of our total revenues, from mobile services. The growth in mobile services revenues was mainly due to the subscriber numbers increase, upsell resulting from a steady 5G migration and roaming revenues recovering from post-pandemic era.

We drove 5G migration in a steady manner. In addition, as we focus on creating value for customers, our postpaid ARPU (excluding IoT) per month increased from NT\$525 in 2022 to NT\$547 in 2023.

	Year	Year Ended December 31		
	2021	2022	2023	
	NT\$	NT\$	NT\$	
Postpaid ARPU ⁽¹⁾ for mobile service	509	525	547	

⁽¹⁾ Postpaid ARPU is calculated by dividing the consolidated mobile service revenues (excluding IoT and prepaid revenues) by the average number of postpaid subscribers during the month (excluding IoT).

We remain the largest mobile operator in Taiwan in terms of revenues and number of subscribers. We had approximately 11.2 million mobile customers, excluding IoT SIMs, and a market share of approximately 37.6% in terms of total mobile customers (excluding IoT) and approximately 40.0% in terms of total mobile services revenues in Taiwan as of December 31, 2023.

In October 2013, we obtained a 4G mobile broadband services spectrum of 10MHz paired spectrum in the 900MHz frequency band and 25MHz paired spectrum in the 1800MHz frequency band. We paid NT\$39.1 billion to the government for the spectrum. The license is valid until December 31, 2030. We launched 4G mobile broadband services in May 2014.

In December 2015, we obtained an additional spectrum for 4G mobile broadband services of 30MHz paired spectrum in the 2500MHz and 2600MHz frequency bands, and we paid NT\$10.0 billion to the government. The license is valid until December 31, 2033. We put these 2500MHz and 2600MHz frequency bands into use on March 24, 2016.

In November 2017, we further obtained a spectrum for 4G mobile broadband services of 5MHz paired spectrum in the 1800MHz frequency band and 20MHz paired spectrum in the 2100MHz frequency band, and we paid NT\$10.9 billion to the government. The licenses are valid until December 31, 2030 and 2033, respectively.

In February 2020, we obtained a spectrum for 5G mobile broadband services of 90MHz spectrum over 3.5GHz frequency bands and 600MHz spectrum over 28GHz frequency bands, and we paid NT\$48.4 billion to the government. The license is valid until December 31, 2040. We launched 5G services on June 30, 2020.

In May 2022, we obtained 900MHz band 2x10MHz bandwidth spectrum and equipment from Asia Pacific Telecom Co. Ltd. (merged with Far EasTone Telecommunications Co., Ltd., or Far EasTone) in consideration of approximately NT\$1.9 billion to enhance network performance. The license is valid until December 31, 2030.

The following table sets forth information regarding our mobile service operations and our mobile subscriber base for the periods indicated.

	As of or for the Year Ended December 31			
	2021	2022	2023	
Taiwan population (in thousands) ⁽¹⁾	23,375	23,265	23,420	
Total mobile revenues in Taiwan (in billions) ⁽²⁾	NT\$155.0	NT\$160.9	NT\$167.3	
Churn rate ⁽³⁾	0.81%	0.90%	1.39%	
Minutes of usage (in millions of minutes):				
Incoming	4,865	4,337	3,513	
Outgoing	5,211	4,704	3,883	
Average minutes of usage per user per month ⁽⁴⁾	79	69	56	

- (1) Data from the Department of Population, Ministry of the Interior, ROC.
- (2) Data from the monthly statistical release by the NCC, which include mobile revenues from 4G and 5G mobile broadband services.
- Measuring the rate of subscribers (excluding IoT) disconnections from mobile service, determined by averaging the monthly churn rate, which is determined by dividing a) our aggregate voluntary and involuntary deactivations during the month by b) the average number of customers during the month. The calculation includes both prepaid and postpaid subscribers (excluding IoT).
- (4) Average minutes of usage per user per month is calculated by dividing the total minutes of use during the period by the average number of our mobile subscribers (excluding IoT) on the first and last days of the period and dividing the result by the number of months in the relevant period.

The total mobile customers (excluding IoT) in Taiwan had reached approximately 29.9 million as of December 31, 2023. The overall mobile services market experienced an increase of 4.0% in revenues in 2023, mainly driven by the steady 5G migration and roaming revenues recovering from post-pandemic era.

We offer incentives, such as mobile handset subsidies for immediate purchase, when new customers agree to sign a service contract with us or when existing customers renew their contracts with us, ranging from 12 months to 60 months.

Our tariffs for postpaid mobile customers primarily consist of usage fees and monthly fees. We also offer usage fee discounts on data traffic, voice call minutes and Hami Points, which are our membership points to offer a number of benefits, including gift redemptions and other rewards, to encourage subscription to our 5G mobile service.

As of December 31, 2023, we had approximately 1.5 million prepaid subscribers, representing approximately 13.5% of our total mobile customers. Prepaid subscribers do not pay monthly fees but pay a higher usage charge per second. Once the prepayment has been fully utilized, a subscriber can make additional prepayments to continue the service. Alternatively, the customer may become a postpaid subscriber while retaining the same telephone number.

Fixed-line Services

In 2021, we generated revenues of NT\$82.0 billion, or 39.0% of our total revenues, from fixed-line services. In 2022, we generated revenues of NT\$82.4 billion, or 38.0% of our total revenues, from fixed-line services. In 2023, we generated revenues of NT\$81.9 billion (US\$2.7 billion), or 36.7% of our total revenues, from fixed-line services. The decline in fixed-line services revenues was mainly due to the decreased voice revenues, partially offset by the increase of data communication and broadband access revenues.

Fixed-line services are one of our principal businesses. Our fixed-line services include fixed broadband services, fixed voice services, leased line services, video services and satellite services.

Fixed broadband services: our fixed broadband services mainly consist of broadband access, data communication services and Wi-Fi services.

We provide broadband access through connections based on our FTTx and ADSL technologies. Our revenues from our broadband access services in 2021, 2022 and 2023 were NT\$18.6 billion, NT\$19.2 billion and NT\$19.6 billion (US\$0.6 billion), respectively. Over the years, we are continuously expanding our high-speed FTTx household coverage and encouraging more migration of our FTTx subscribers to higher-speed FTTx service. The following table sets forth our ARPU for each of the periods indicated.

	Year	Year Ended December 31			
	2021	2022	2023		
	NT\$	NT\$	NT\$		
ARPU for broadband services per month ⁽¹⁾	745	766	774		
ARPU for FTTx services per month ⁽²⁾	812	831	836		

⁽¹⁾ ARPU for our broadband services per month is calculated as the sum of (a) broadband access revenues for the relevant period divided by the average of the number of our broadband access customers on the first and last days of the period divided by the number of months in the relevant period and (b) HiNet ISP service revenues divided by the average of the number of HiNet ISP service subscribers on the first and last days of the period divided by the number of months in the relevant period.

Our overall broadband ARPU increased in 2021, 2022 and 2023, mainly due to the demand for broadband speed upgrades, which further propelled the growth of higher-speed service adopters.

Our data communication service includes HiNet, our brand name as an ISP, and HiLink, a VPN service for enterprises. We are the largest ISP in Taiwan, with a subscriber market share of 56.8% in Taiwan as of December 31, 2023. As of the same date, approximately 82.3% of our broadband customers were also HiNet subscribers, using HiNet as their ISP, and 91.8% of our FTTx service customers subscribed HiNet ISP service. The following table sets forth HiNet's subscribers as of each of the dates indicated.

	As of December 31			
	2021 2022		2023	
Total internet subscribers in Taiwan	6,608	6,897	7,097	
HiNet subscribers:				
HiNet FTTx subscribers	3,421	3,479	3,526	
HiNet ADSL, dial-up, and other access technology subscribers	548	533	506	
Total HiNet subscribers	3,969	4,012	4,032	

⁽²⁾ ARPU for FTTx services per month is calculated as the sum of (a) FTTx access revenues for the relevant period divided by the average of the number of our FTTx access customers on the first and last days of the period divided by the number of months in the relevant period and (b) HiNet FTTx ISP service revenues divided by the average of the number of HiNet FTTx ISP service subscribers on the first and last days of the period divided by the number of months in the relevant period.

We also provide Wi-Fi services. As of December 31, 2021, 2022 and 2023, we had a total of approximately 2.9 million, 3.0 million and 3.0 million residential and enterprise customers that leased our access points, respectively. We also provide home Wi-Fi devices rental services, and the number of home Wi-Fi devices continued to soar by 67.1% year-over-year.

Fixed voice services: our fixed voice services mainly consist of local telephone, domestic long distance telephone and ILD telephone services.

We are the leader of the local telephone service market, with an average subscriber market share of approximately 91.7%, 91.4% and 91.4% in 2021, 2022 and 2023, respectively. Total revenues from local telephone services comprised 11.3%, 10.5% and 9.5% of our total revenues in 2021, 2022 and 2023, respectively. This decreasing trend was mainly due to the general industry-wide trend of migrating from fixed-line services to internet telephony services and voice over internet protocol, or VoIP, applications.

We provide domestic long distance telephone services in Taiwan. Total revenues from domestic long distance telephone services comprised 0.9%, 0.8% and 0.7% of our total revenues in 2021, 2022 and 2023, respectively. This decreasing trend was mainly due to the migration to mobile services and increased use of VoIP applications.

We also provide ILD telephone services in Taiwan, primarily international direct dial services and wholesale of ILD traffic. Total revenues from ILD telephone services comprised 1.0%, 0.8% and 0.8% of our revenues in 2021, 2022 and 2023, respectively. This decreasing trend was mainly due to our strategy to reduce low-margin contracts.

Leased Line Services: We are the leading domestic leased line services provider and the leading international leased line services provider in Taiwan, primarily offering exclusive lines that allow point-to-point connection for voice and data traffic. Leased lines are used by enterprise customers to assemble their private networks and by telecommunications service providers to establish networks to offer telecommunications services. Our leased line services mainly consist of local and domestic long distance and international leased line services.

Our local and domestic long distance leased line services revenues were NT\$4.2 billion, NT\$4.2 billion and NT\$4.3 billion (US\$0.1 billion) in 2021, 2022 and 2023, respectively. Revenues remain relatively stable year-over-year and we continue to migrate customers to higher-speed services.

Our international leased line services revenues were NT\$2.2 billion, NT\$2.4 billion and NT\$2.7 billion (US\$87.2 million) in 2021, 2022 and 2023, respectively. Revenues increased in both 2022 and 2023, mainly due to the fact that the incremental bandwidth demand driven by the increasing usage of cloud services.

Video Services

Using video streaming technology through set-top boxes connected to our FTTx and ADSL data connections, our MOD customers can access TV shows, video on demand, OTT and other services. We had over 191 channels, including 189 high definitions, or HD, and two 4K resolution, or 4K, channels, and over 47,000 hours of on-demand programs as of December 31, 2023. In addition to our regular packaged offerings, we also offer SVoD services for film and drama. Starting from 2017, our MOD platform has successfully provided OTT services, such as KKTV and Netflix. Our owned OTT platform, Hami Video, also provides over 110 channels and offers many selected videos, 4K broadcasts and multi-angle videos. As of December 31, 2023, we had approximately 2.1 million MOD customers, including approximately 1.0 million SVoD subscriptions and approximately 1.4 million channel subscriptions and 0.8 million Hami Video SVOD subscriptions. We continue to see upsells in our tiered pricing channel packages and digital convergence packages.

Our MOD revenues were NT\$3.7 billion, NT\$3.7 billion and NT\$3.7 billion (US\$0.1 billion) in 2021, 2022 and 20223 respectively. The overall stable trend in revenues from 2021 to 2023 was mainly due to the stable number of customers and ARPU. We have launched optional service packages with customized subscriptions to satisfy customers' preferences. In 2023, the main reason for maintaining in the number of customers and the revenues was mainly due to reduced consuming ability caused by rising inflation. We will continue to develop our customer

stickiness by investing in content with higher video performance on our different platforms. This strategy enables us to maintain our leading position as the largest video platform in Taiwan.

Satellite Services

We entered into a contract with ST-2 Satellite Ventures Pte., Ltd. on March 12, 2010 to lease capacity on the ST-2 satellite. The lease term is 15 years. As our ST-2 satellite is in good operating condition, the expected lifespan is extended for another three years and three months after evaluation in 2021. Please refer to Note 39 to our consolidated financial statements included elsewhere in this annual report for further details.

In addition, we have two satellite communication centers with geographical redundancy that enable us seamlessly to provide TV broadcasts, satellite VAS and backup systems in responding to major emergencies. We also provide satellite services to Southeast Asia. In November 2022, the government opened for telecommunications enterprises to register radio frequency for Ku-band and Ka-band satellite internet services, which include LEO service. In March 2023, we entered into a new agreement with Singapore Telecommunications Limited to jointly invest in a new satellite project to upgrade and replace our aging ST-2 satellite. This collaboration enables us to provide all the services and capabilities of the current generation, together with a substantial number of improvements in service quality and capabilities. The replaced satellite project was developed smoothly, on schedule and in design phase for the past one year. In November 2023, we signed an exclusive distribution partner agreement for OneWeb LEO satellite services with Eutelsat Group, ushering in a new era of satellite connectivity in Taiwan. The integration of OneWeb services to our solutions will offer greater resiliency as well as complementing terrestrial fixed, mobile networks, submarine cables and microwave communication services to government and enterprise clients. In December 2023, the Company obtained the frequency allocation qualification for fixed-satellite services from the Ministry of Digital Affairs, or MODA, for One Web services.

ICT Business

In 2021, we generated revenues of NT\$23.5 billion, or 11.2% of our total revenues, from ICT services. In 2022, we generated revenues of NT\$26.1 billion, or 12.1% of our total revenues, from ICT services. In 2023, we generated revenues of NT\$28.6 billion (US\$0.9 billion), or 12.8% of our total revenues, from ICT services. The growth in ICT services revenues was mainly due to the rising demand for IDC, cloud, cybersecurity, big data and integrated ICT solutions from our clients.

By integrating various technologies, such as cloud computing, cybersecurity, big data, IoT and accelerating emerging services, we provide customized ICT total solutions to enable our enterprise customers to improve efficiency and enjoy smart life.

Our IDC is under centralized management, and we saw increasing occupancy in our highest-rated Banqiao IDC with strong potential demand. This strong potential demand has driven us to work on our next business expansion.

We are also a cloud service provider. Our CHT cloud service is a multi-cloud network convergence service. With a high-quality global network as the basis for all cloud services, it integrates our self-developed cloud service, hicloud and other public cloud services, including Amazon Web Services, Microsoft Azure, and Google Cloud Platform.

In addition, we cooperate with our subsidiary, CHT Security Co., Ltd., to provide HiNet Advanced Networks Defense System, or ANDs, and Web Application Firewall, or WAF. ANDs can combine with HiNet Security Fleet solution to upgrade users' information systems security. We also provide Content Delivery Network, or CDN, service. This service effectively speeds up content delivery on websites with high traffic. The closer the CDN server is to the user geographically, the faster the content will be delivered. We provide CDN service to internet content providers to ensure stable quality when programs are broadcasted. We will expedite CDN construction to enhance digital convergence product strength. Besides, our CDN is effectively integrated with IDC. With the combined solution, our customers can place the server in IDC as the origin site, and CDN can distribute the site traffic to the internet with high efficiency and stable quality.

Taking advantage of the speed, low latency and high connection capacity of 5G technology, we also offer our enterprise customers 5G private network services. This dedicated network provides a secure and reliable connectivity solution for various industrial applications, including enterprise intranet transmission, ensuring data security and improving scalability and efficiency.

In terms of "5G AIoT" application services, we are actively launching many vertical application products and services in the fields of smart transportation services, smart energy services, smart video monitoring services, smart medical care, and smart homes. Our 5G service can accommodate a large number of IoT devices for data transmission with excellent efficiency and stability, and provides CVP traffic sign optimization, solar system management and rural area telemedicine with low latency characteristics.

With the advantages of big data analytics and AI technology, we provide various data-enabled services to help government agencies and enterprises in digital transformation, including building big data platforms, customizing various business intelligence and AI solutions, as well as integrating machine learning technologies.

Sales

We engage in the distribution and sales of mobile handsets and wearable devices on our mobile network to customers through our directly-owned stores, our online store, SENAO, and also through third-party retailers. See "Marketing Strategy—Distribution Channels" and "Sales and Distribution" in "—Marketing, Sales and Distribution."

Interconnection

We provide interconnection of our fixed line network and mobile network with other operators.

The following table sets forth our interconnection fee revenues and costs for the periods indicated. These revenues and costs are included, depending on the nature of the call made, in domestic fixed communications or mobile communications revenues and expenses, respectively.

	Year Ended December 31			
	2021 2022		2023	
	NT\$	NT\$	NT\$	US\$
		(in billions)		(in millions)
Interconnection fee revenues:				
Fixed line	0.6	0.6	0.5	16.4
Mobile	0.6	0.5	0.4	12.5
Interconnection costs:				
Fixed line	0.4	0.4	0.3	10.3
Mobile	0.9	0.9	0.7	22.9

The interconnection rate between fixed-line customers and other fixed-line customers is NT\$0.32 per minute during peak times and NT\$0.09 per minute during off-peak times. The interconnection rate for calls initiated by mobile customers to fixed-line customers has been NT\$0.4349 per minute during peak times and NT\$0.2059 per minute during off-peak times since January 2023. However, the NCC issued a notice for the promulgation of the "Upper Limits on the Termination Rates for Voice Service over Fixed Network Provided by Significant Market Powers" on June 5, 2023. The interconnection fees of local telephones, domestic long-distance or international calls, and mobile-to-fixed-line calls should be decreased gradually from June 5, 2023 to December 31, 2026. See "Item 5. Operating and Financial Review and Prospects—Overview—Tariff adjustments."

Our mobile interconnection revenues and costs decreased from 2021 to 2023, mainly due to the NCC mandating a mobile interconnection rate reduction over a period of three years starting from January 2021 from NT\$0.525 per minute to NT\$0.443 per minute and the decreasing traffic volume attributable to VoIP substitution.

Fixed interconnection costs decreased from 2021 to 2023, mainly due to the reduction of mobile interconnection rate for fixed-line-to-mobile calls and the decreasing traffic volume attributable to VoIP substitution.

In accordance with governmental regulations, the contracts governing our interconnection arrangements must specifically address a number of prescribed issues. For example, our interconnection charge should reflect our costs with respect to the network elements used. In addition, cost increases are subject to approval by the regulatory authorities. We expect that our interconnection contracts will generally be reviewed annually, although we may also enter into long-term contracts.

Marketing, Sales and Distribution

Marketing Strategy

In order to retain and expand our large customer base and to encourage our customers to increase their use of our services and products, we continue to focus our marketing strategy on the following areas.

- services and products: we continuously develop new VAS and products based on different market segments, with the aim of increasing our high-usage customers and enhancing customer loyalty.
- pricing and promotions: we design flexible pricing packages that allow customers to select and design special promotional packages to encourage usage.
- distribution channels: we seek to broaden our distribution reach by strengthening our cross-industry alliances and marketing relationships. Furthermore, to expand our sales channels more effectively, we also implement an external sales agent system by collaborating with SENAO, Synnex Technology International Corporation and Tsann Kuen Trans-Nation Group, enabling us to get closer to every customer. In addition, we have set up an online store for years to improve our operational efficiency and to reach more young people.
- branding: Chunghwa Telecom has been a well-known household brand with nationwide infrastructure and service centers. In order to fulfill our brand commitment, "Always Ahead," we have always acted in accordance with the highest corporate governance standards. Our focus on meeting customer demand and satisfaction has generated additional value for shareholders. Our long-term primary focuses are "Supporting Minorities," "Corporate Sustainability Development" and "Global Environmental Compliance."

Sales and Distribution

As of December 31, 2023, we had 17 operations offices for operations, 443 service centers and 15 customer service call centers for sales and customer service. In addition, we have simplified transaction process on our online store to improve customers' experience, and we enhanced our service efficiency by increasing digital channel access of contactless transactions.

We also had 240 SENAO exclusive service stores as of December 31, 2023. Our investment in SENAO continues to enhance our mobile handset distribution and sales capabilities in which customers can subscribe to our broadband service, MOD service and other services at SENAO retail stores. See "Item 7. Major Stockholders and Related Party Transactions—B. Related Party Transactions" for a discussion of the agreement between the parent company and SENAO about our business cooperation.

Competition

We face competition in virtually all aspects of our business.

Mobile Services

In December 2023, two mergers were completed. As a result, the number of mobile network operators in Taiwan decreased from five to three, including us. All of these three operators have 4G and 5G mobile broadband

licenses. Additionally, nowadays mobile operators are expanding their business beyond basic mobile services to encompass other value-added services such as media, cloud and IoT solutions, with a goal to provide subscriber with a holistic digital experience to increase customers' stickiness.

In 2023, under this new market landscape, we continue to maintain our growth momentum and leadership in the market. In spite of the decrease in the total number of mobile subscribers in Taiwan throughout 2023, our postpaid mobile subscribers continued to increase, benefiting from our successful strategy in terms of 4G subscriber retention and 5G migration. Our mobile service revenues also increased due to the growth in subscribers and the upsell resulting from 5G migration and roaming recovering from post-pandemic era.

In addition to the mobile network operators, there are also mobile virtual network operators, or MVNOs, which could provide mobile services by leasing the capacity and facilities of a mobile service network from a licensed mobile service provider without a spectrum allocation. However, with the implementation of the Telecommunications Management Act in 2020, the NCC's MVNO registration is no longer mandatory.

Our strengths in the mobile services market are primarily based on our premium brand, quality of service, network reliability and attractiveness of service packages. See "Network Infrastructure—Mobile Services Network" for a discussion on our advantage of mobile broadband services spectrum.

Fixed-line Services

- fixed broadband services: in the fixed broadband market, we have encountered challenges from other
 cable operators seeking to increase their market share with lower pricing strategies. They have also
 offered fixed and mobile broadband bundled services through strategic alliances with other mobile
 operators, extending their footprint in fixed broadband.
- fixed voice services: revenues from local and domestic long distance telephone service of
 telecommunication services providers has continuously decreased in the past years primarily due to
 mobile and VoIP substitution. Challenges faced by mobile data service providers have increased
 significantly due to the popularity of smart mobile devices and mobile applications such as LINE and
 WeChat.
- leased line services: major competitors in this field are four fixed line operators, including Taiwan Fixed Network Co., Ltd, New Century Infocomm Tech. Co., Ltd., Far EasTone and Taiwan Optical Platform Co., Ltd. The leased line services providers primarily focus on the basis of price and the bandwidth speed of services.
- video services: major competitors in this field include six cable TV MSOs, 21 independent cable TV operators as well as OTT service providers. These service providers focus on price and multimedia content.

ICT Business

We leverage our technology capability to provide comprehensive ICT services. In terms of IDC business, we are the leading IDC service provider in Taiwan with more than 50% market share. We offer the best IDC service quality, and our major competitors include Far EasTone, Taiwan Fixed Network and Acer Cyber Security.

Our major competitors in cybersecurity include Acer Cyber Security Inc. and ISSDU Inc. in terms of cybersecurity professional services and TAIWAN-CA Inc. in terms of identification business.

Our major competitors in cloud services are cloud services resellers and system integration service providers, including eCloudvalley Digital Technology Co. Ltd, CKmates International Co. Ltd, CloudMile Inc., Nextlink Technology Inc., Acer E-Enabling Service Business Inc. and SYSTEX Corporation.

Network Infrastructure

Our network infrastructure consists of transmission networks that convey voice and data traffic, switching networks that route traffic between networks, and mobile, internet, leased line and data switching networks.

We purchase most of our network equipment from well-known international suppliers. As part of the purchase contract, these suppliers deliver and install the equipment for us. We also purchase from local suppliers a variety of components such as transmission lines, switches, telephone sets, MOD set-top boxes and radio transmitters.

Approximately 11,791 of our employees were engaged in network infrastructure development, maintenance, operations and planning as of December 31, 2023.

Transmission Networks

As of December 31, 2023, our transmission networks consisted of approximately 2.92 million fiber kilometers of fiber optic cable for trunking and approximately 12.07 million fiber kilometers of fiber optic cable for local loop.

Due to the emergence of Packet Transport Network, or PTN, technology, a cost-effective method for transmitting data services, we began the deployment of PTN in 2013. Due to the high utilization of our existing Reconfigurable Optical Add-Drop Multiplexer, or ROADM, network, we began to introduce Optical Transport Network, or OTN, to meet the demand of 100Gbps per wavelength services in 2014. After completing a trial of perwavelength transmission rates of 200 Gbps, we began to introduce the technology of 200 Gbps per wavelength in our OTN network in 2018. We had deployed 1,230 wavelength for 100 Gbps and 189 wavelength for 200 Gbps in the OTN network and 19,017 GbE in the PTN network by the end of 2023.

As part of our strategic focus on the internet and data markets, our local loop connections mainly adopt FTTx technology. This enables us to provide broadband services, such as MOD, high-speed internet access and VPN. As of December 31, 2023, we have constructed approximately 11.8 million FTTx ports. Our FTTx service can offer high-speed broadband access rates up to 2 Gbps. For low bandwidth demand, we use ADSL technology to provide the internet connection services to our customers.

Switching Networks

Domestic telecommunications network. Our domestic public switched telephone network currently consists of 19 message areas connected by a long distance network. As of December 31, 2023, we had 38 long distance exchanges, which were interconnection points between our telecommunications network and approximately 11.6 million telephone lines, which reached virtually all homes and businesses in Taiwan.

We currently have intelligent networks installed over our public switched telephone networks for our domestic long distance and international networks, as well as a local intelligent network mainly in the Taipei, Taichung and Kaohsiung metropolitan areas. Our intelligent network is designed to facilitate the use of VAS by providing more information about calls and allowing greater management of those calls.

As of December 31, 2023, our Next Generation Network, or NGN, core network capacity consisted of 7,424,000 local telephone subscribers, comprising 6,768,000 Session Initiation Protocol-based, or SIP-based, and 656,000 Access Gateway-based, or AG-based, subscribers.

Our NGN Managed IP backbone network consists of an inner core network and an outer core network. By the end of 2023, we owned 12 sets of 4Tbps switch routers for the inner core network and more than 34 sets of switch routers for the outer core network, and the bandwidth of the network was approximately 2,060 Gbps. We believe this network will enable us to meet the increasing demand for NGN services, such as VoIP, and all managed services, including MOD and VPN.

International network. Our international infrastructure consists of multiple submarine cables, transmission networks, voice GWs and IP networks, which provide IPLC, IPVPN, Voice and Internet transit service to connect Taiwan and worldwide

In 2018, we started to build SJC2 with several Asian telecom companies. The cable features up to seven pairs of high-capacity optical fiber with a total capacity of 126 Terabits per second. Its high capacity allows it to support high bandwidth intensive requirements, such as IoT, robotics, analytics and AR or VR applications. In 2021, we joined another consortium cable called APRICOT to further lay a solid cornerstone for Chunghwa Telecom's international business plan in the Asia-Pacific region. As of December 31, 2023, we had invested in 32 submarine cables, 13 of which landed in Taiwan. The total invested capacity has reached more than 26 Tbps.

Mobile Services Network

Our mobile services network consists of:

- cell sites, which are physical locations equipped with a base station consisting of transmitters, receivers and other equipment used to communicate through radio channels with customers' mobile handsets within the range of a cell;
- Centralized Radio Access Network, or C-RAN, which splits base stations into two parts, the Radio Remote Unit, or RRU, and the Base Band Unit, or BBU. The RRUs stay at the cell site, while the BBUs are aggregated into a centralized office;
- Radio Network Controller, or RNC, for 3G, which connects to, and control, the base station within each cell site;
- Mobile Switching Server, or MSS, for 3G, which control the base station controllers and the processing and routing of telephone calls;
- Serving GPRS Support Nodes, or SGSN, which connects the GPRS network to the base station controllers;
- Mobility Management Entity, or MME, which connects the base station to our 4G/5G core network that is responsible for control side;
- Serving Gateway, or S GW, which connects the base stations to our 4G/5G core network that is responsible for data side;
- Packet Data Network Gateway, or PDN GW, which connects our 4G/5G core network to the internet;
 and
- transmission lines, which link to the mobile switching service centers, MME, S GW, base station controllers, base stations and the public switched telephone network in connection with the 3G/4G/5G network, and the base station controllers, the support nodes, PDN GW and the internet in connection with the GPRS/4G/5G core network.

In May 2014, we launched our 4G mobile broadband services with 10MHz paired spectrum in the 900MHz frequency band and 25MHz paired spectrum in the 1800MHz frequency band. In December 2015, we obtained an additional spectrum for 4G mobile broadband services of 30MHz paired spectrum in the 2500MHz and 2600MHz

frequency bands. In November 2017, we further obtained a spectrum for 4G mobile broadband services of 5MHz paired spectrum in the 1800MHz frequency band and 20MHz paired spectrum in the 2100MHz frequency band.

In February 2020, we acquired 5G spectrums allocated 90MHz bandwidth in the 3.5GHz frequency band and 600MHz bandwidth in the 28GHz frequency band. In June 2020, we launched 5G mobile broadband services. We use C-RAN architecture to enhance 5G RAN performance and reduce network maintenance costs. In May 2022, we acquired 10MHz paired spectrum in the 900MHz frequency band from Asia Pacific Telecom Co., Ltd. We currently own 40MHz spectrum in the 900MHz frequency band, 60MHz spectrum in the 1800MHz frequency band, 40MHz spectrum in the 2100MHz frequency band, 60MHz spectrum in the 2600MHz frequency band, 90MHz spectrum in the 3500MHz frequency band, and 600MHz spectrum in the 28GHz frequency band, which may provide higher data transmission rates.

We have also installed an intelligent network on our existing mobile services network infrastructure, which enables us to provide additional functions, such as prepaid and VPN services as well as a wide range of VAS.

Internet Network

HiNet, our internet service provider, has the largest internet access network in Taiwan, with 26 points of presence, approximately 3.56 million broadband subscribers and a backbone bandwidth of approximately 22,533 Gbps as of December 31, 2023. We aim to increase HiNet's points of presence and backbone bandwidth to approximately 26,333 Gbps by the end of 2024.

HiNet's broadband backbone network consists of an inner core network and an outer core network. We had a high-speed internet protocol backbone network by the end of 2023 with 18 sets of switch routers for the inner core network and more than 44 sets of switch routers for the outer core network. We also built CDN to meet the needs of Internet/OTT services. Our CDN consists of 20 domestic and five overseas point-of-presences and the total capacity is approximately 4,210 Gbps as of December 31, 2023. We believe these networks will enable us to meet the increasing demand for our internet services.

HiNet's total international connection bandwidth is 4,437 Gbps as of December 31, 2023. As we expect that internet traffic flows to and from the U.S. will continue to increase, we have been continuously expanding our bandwidth to the U.S. We also endeavor to increase our links to other countries, including Japan, Korea, Hong Kong, Singapore, Mainland China, Malaysia, the United Kingdom, Germany and the Netherlands.

Leased Line and Data Switching Networks

We operate leased line networks on both a managed and unmanaged basis. In addition, we operate a number of switched digital networks used principally for the provision of packet-switched, frame relay, asynchronous transfer mode technology and a multi-protocol label switching internet protocol VPN. As of December 31, 2023, we had 247 frame relay ports and approximately 164,198 multi-protocol label switching internet protocol VPN virtual ports.

Our data networks support a variety of transmission technologies, including frame relay, asynchronous transfer mode and Ethernet technology. We have also built up our HiLink VPN that combines internet protocol and asynchronous transfer mode technologies. The advantage of HiLink VPN based on multi-protocol label switching technology is that it can carry different classes of services, such as video, voice and data, together to provide services with various qualities of service, high-performance transmission and fast-forward solution in an enhanced security network. HiLink VPN can be accessed by xDSL/FTTx/NG-SDH and can include built-in mechanisms that can deal with overlapping internet protocol addresses. Therefore, the network is potentially less costly and requires less management for business applications.

Property, Plant and Equipment

Our property, plant and equipment consist mainly of telecommunications equipment, land and buildings located throughout Taiwan. Although we have a significant amount of land and buildings throughout Taiwan, most

of our properties are for operational use and only a small part of them are for investment purposes, which were classified as "investment properties" in our consolidated financial statements included in this annual report. Notes 16 and 18 to our consolidated financial statements, included elsewhere in this annual report, provide additional details as to our "Property, plant and equipment" and "Investment properties," respectively. See "Item 3. Key Information—D. Risk Factors— Risks Relating to Our Company and the Taiwan Telecommunications Industry—Our ability to deliver services may be disrupted due to systems failures, network shutdowns, earthquakes or other natural disasters" for a discussion of environmental issues that may affect utilization of our assets.

We continue to revitalize our own assets through rental income focused strategies and explore development opportunities to increase the value of our land and buildings. We completed a staff dormitory in Taoyuan City in December 2021 to attract and retain outstanding human resources, and we are also developing a commercial building in Nangang, Taipei City. We received approximately NT\$1.1 billion (US\$36.58 million) in rental income from properties in 2023.

Insurance

We do not carry comprehensive insurance for our properties or any insurance for business disruptions. We do, however, maintain in-transit insurance for key materials, such as cables, equipment and equipment components.

Employees

Please refer to "Item 6. Directors, Senior Management and Employees—D. Employees" for a discussion of our employees.

Our Pension Plans

Currently, we offer two types of employee retirement plans—our defined contributions plan and defined benefits plan—which are administered in accordance with the Republic of China Labor Standards Act and the Republic of China Labor Pension Act.

Legal Proceedings

From time to time, we are involved in various legal and arbitration proceedings of a nature considered to be in the ordinary course of our business. It is our policy to provide for reserves related to these legal matters when it is probable that a liability has been incurred and the amount is reasonably estimable. From time to time, we have also been assessed fines by various government agencies, such as the NCC and FTC, but none of these fines has had a significant effect on our financial condition or results of operations.

We believe that we had not been involved in any legal or arbitration proceedings during 2021, 2022 and 2023 that would have a significant effect on our financial condition or results of operations; however, we cannot give you any assurance with respect to the ultimate outcome of any asserted claims against us or legal or arbitration proceedings involving us.

Capital Expenditures

See "Item 5. Operating and Financial Review and Prospects—B. Liquidity and Capital Resources—Capital Expenditures" for a discussion of our capital expenditures.

Enforceability of Judgments in Taiwan

We are a company limited by shares and incorporated under the ROC Company Act. All of our directors, executive officers and some of the experts named in this annual report are residents of Taiwan and a substantial portion of our assets and the assets of those persons are located in Taiwan. As a result, it may not be possible for investors to effect service of process upon us or those persons outside of Taiwan, or to enforce against them judgments obtained in courts outside of Taiwan. We have been advised by our ROC counsel that in their opinion any final judgment obtained against us in any court other than the courts of the ROC in connection with any legal suit or proceeding arising out of or relating to the ADSs will be enforced by the courts of the ROC without further review of the merits only if the court of the ROC in which enforcement is sought is satisfied that:

- the court rendering the judgment has jurisdiction over the subject matter according to the laws of the ROC;
- the judgment and the court procedure resulting in the judgment are not contrary to the public order or good morals of the ROC;
- the judgment is a final judgment for which the period of appeal has expired or from which no appeal can be taken;
- if the judgment was rendered by default by the court rendering the judgment, we, or the abovementioned persons, were duly served within a reasonable period of time in accordance with the laws and regulations of the jurisdiction of the court or process was served on us with judicial assistance of the ROC; and
- judgments at the courts of the ROC are recognized and enforceable in the court rendering the judgment on a reciprocal basis.

A party seeking to enforce a foreign judgment in the ROC would, except under limited circumstances, be required to obtain foreign exchange approval from the Central Bank of the Republic of China (Taiwan) for the remittance out of the ROC of any amounts exceeding US\$100,000 or its equivalent recovered in respect of such judgment denominated in a currency other than NT dollars.

Regulation

Regulatory Authorities

Prior to March 1, 2006, we were under the supervision of the MOTC and the Directorate General of Telecommunications. On March 1, 2006, the NCC was formed in accordance with the National Communications Commission Organization Act, which was intended to transfer regulatory authority over the Taiwan telecommunications industry from the MOTC and the Directorate General of Telecommunications to the NCC.

Under the National Communications Commission Organization Act, the NCC was comprised of seven commissioners, which are full-time positions. The premier of the Executive Yuan shall nominate the commissioners and appoint one of them to serve as chairperson, and one as vice chairperson. The nomination shall be approved and appointed by the Legislative Yuan. The tenure of the commissioners is four years, and the commissioners may be reappointed to serve a consecutive term.

On August 27, 2022, the Ministry of Digital Affairs was launched to partly take over the administrative authorities formerly held by the NCC, the MOTC and the Executive Yuan, and the Organizational Act of the Ministry of Digital Affairs was enforced on the same day.

Telecommunications Management Act

The TMA was passed by the Legislative Yuan on May 31, 2019 and promulgated by the President on June 26, 2019. The Executive Yuan issued an ordinance on June 29, 2020 to set the effective date of the TMA (excluding certain articles regarding frequency allocation) on July 1, 2020, and issued an ordinance on October 22, 2020 to set the effective date of the remaining articles of the TMA regarding frequency allocation on November 1, 2020. According to the TMA, within three years upon the enforcement thereof, the existing telecommunications enterprises shall register themselves with the NCC for the transition into being governed by the TMA. We filed an application for the aforementioned transition registration on July 31, 2020, and the application was approved by the NCC on September 30, 2020.

The impacts caused by the enforcement of the TMA on us and the telecommunications industry include: (i) reducing the entry barrier to the telecommunications markets by changing the original concession/approval system to the registration system, which spurs the competition of the market; (ii) loosening unnecessary restrictions. General enterprises shall have only ordinary obligations to the minimum necessary extent, provided that certain enterprises with significance in the specific telecommunications service markets will be subject to more stringent control measures. Since we may be regarded as an enterprise with significance in the specific telecommunications service markets, we will be required to bear more stringent obligations; (iii) restricting the right of telecommunications enterprises to use private lands and buildings. Only where the telecommunications infrastructure of a public switched telecommunications network cannot be established without passing through private lands or buildings or can be established with an enormous amount of money, the establishment may be made by passing through private lands or buildings on the premise of selecting the least harmful location and manner; and (iv) opening up domestic roaming, frequency transferring, frequency leasing, frequency lending or frequency sharing mechanisms, which allows the telecommunication enterprises to use spectrums and conduct network constructions more flexibly and changes the competition status of the telecommunications market. The main provisions of the Telecommunications Management Act are summarized as follows:

Reducing the entry barrier to the telecommunications market:

The Telecommunications Management Act reduces the entry barrier to the telecommunications market by changing the concession approval system to the registration system. According to the Telecommunications Management Act, telecommunications service providers with any of the following activities shall register as a telecommunications enterprise with the competent authority:

- (1) negotiating interconnection with other telecommunications enterprises or applying for a ruling therewith;
- (2) applying for the assignment of a radio frequency, except the radio frequency with any of the following purposes:
 - for emergency subsidy, experimental research and development, dedicated telecommunications network, public use or other public welfare-related uses;
 - for the use of terrestrial radio business or terrestrial television business:
 - for the use of wireless local loop, satellite link or microwave link at different times or different locations:
 - for the use of testing a station established under telecommunications networks;
 - military radio frequencies.
- (3) applying for the assignment of identification code or signal point code for establishing a Public Switched Telecommunications Network, or PSTN:
- (4) applying for the assignment of subscriber numbers.

However, if any telecommunications service provider fails to make the aforementioned registration, the only consequence is that it will not be granted the rights provided under the Telecommunications Management Act.

Specifying the obligations of telecommunications enterprises:

The TMA categorizes the obligations of telecommunications enterprises into three levels: general obligations, special obligations and designated obligations:

(1) General Obligations:

The obligations borne by all the telecommunications enterprises that have filed the registration with the NCC include:

- disclosing the information regarding service conditions, telecommunications network's quality and data transmission management methods/conditions, in an obvious, public and reachable method;
- separating the accounting items of telecommunications service and non-telecommunications service;
- adopting appropriate and necessary measures to protect the confidentiality of communications;
- providing consumer complaint handling channels;
- preserving communications and accounting records within a specific period of time;
- notifying the NCC when service is suspended;
- sharing the expenses incurred by the telecommunications universal service, if the annual revenue of the telecommunications enterprise generated from telecommunications services reaches a certain amount.

(2) Special Obligations:

The obligations borne by the telecommunications enterprises that are granted specific resources or determined by the NCC include:

- the telecommunications enterprises that use subscriber numbers allocated by the competent authority to
 provide voice services shall provide free emergency communications services, number portability
 services and equal access services;
- the telecommunications enterprises that have established a PSTN using telecommunications resources or other telecommunications enterprises announced by the NCC shall draw up an info-communications security maintenance plan;
- the telecommunications enterprises of which the types of services are special or the ones that receive
 consumer complaints frequently, as designated by the NCC, shall set forth standard service contracts,
 conduct regular self-evaluation for the quality of telecommunications services, and co-establish
 complaint handling channels for telecommunications consumers.

(3) Designated Obligations:

In order to fulfill the need of policy or competent laws and regulations, relevant competent authorities may designate the telecommunications enterprises which meet certain conditions to take relevant necessary measures, including disaster prevention and assistance, communication security and surveillance, protection of the rights and interests of the people with disabilities and the telecommunications universal services.

To meet the need of the rapid-changing market and ensure effective competition in the telecommunications service market, the enterprises under control are changed from dominant market players to the enterprises with

significance in the specific telecommunications service market, which are subject to different levels of corrective actions according to the Telecommunications Management Act.

The NCC is entitled to adopt control measures for those with market significance in the specific telecommunications service market if necessary, including:

- the NCC may order enterprises with significance in the specific telecommunications service market to
 disclose necessary information, conditions, procedures and expenses in terms of interconnection,
 network access components or use of telecommunications infrastructure;
- the NCC may prohibit enterprises with significance in the specific telecommunications service market
 from making discrimination, setting the service fee that may cause a cross-subsidy, price squeeze or any
 other abuse of power and hence impede fair competition (including doing so for the subsidiaries,
 affiliates or partners thereof);
- the NCC may request enterprises with significance in the specific telecommunications service market to provide interconnection, network access components or relevant telecommunications infrastructure;
- the NCC may order enterprises with significance in the specific telecommunications service market to draw up and publish a template agreement related to the provision of interconnection or network access.

We may be regarded as the enterprise with significance in the specific telecommunications service market. If so, the aforementioned control measures may be levied on us.

The opportunity of accessing to and using information may be different due to gender, race, class, geographic area of residence or other factors, which is called the digital divide.

The Telecommunications Management Act tries to resolve the problem caused by the digital divide from the following aspects by opening the market, introducing competition and new technology and continuing the promotion of telecommunications universal service:

- narrowing the urban-rural gap;
- ensuring the right of access and use of the minority and disadvantaged groups;
- facilitating the establishment of updated telecommunications infrastructures.

The Telecommunications Management Act removes the restriction on telecommunications network construction imposed by the Telecommunications Act and allows enterprises to establish the telecommunications networks that meet their business needs and develop new technology and equipment.

To ensure the security of network and information, in addition to the PSTN where telecommunications resources including frequency and telecommunications number is used, the telecommunications network where no telecommunications resource is used while telecommunications services are actually provided based on the network-to-network characteristic of the internet, such as iTaiwan, is also regarded as the PSTN, and are both subject to a unified cybersecurity standard. Besides, there are some protection obligations relating to the establishment of PSTN and the provision of telecommunications services specified in the Telecommunications Management Act, including using the telecommunications equipment that complies with national security concerns and cybersecurity standards, establishing the equipment for the performance of communication surveillance, adopting cybersecurity protection plan and ensuring the security of critical telecommunications infrastructure, to ensure and maintain national security, cyber security and public security.

The Telecommunications Management Act changes the method of frequency allocation specified in the Telecommunications Act, allowing the competent authority to allocate frequency by auction, open tender or other appropriate methods according to the characteristic and purpose of use of the frequency.

As a result, the efficiency of the use of frequency can be improved, the development of radio technology can be ensured, and the development of new technology and services of communications can be encouraged.

Fair Trade Act

According to the TMA, to ensure effective competition in the telecommunications service market, the competent authority is entitled to adopt control measures for those with market significance in the specific telecommunications service market if necessary, including ordering those enterprises to disclose necessary information, conditions, procedures and expenses in terms of interconnection, network access components or use of telecommunications infrastructure; prohibiting those enterprises from making discrimination, setting the service fee that may cause a cross-subsidy, price squeeze or any other abuse of power and hence impede fair competition (including doing so for the subsidiaries, affiliates or partners thereof); requesting those enterprises to provide interconnection, network access components or relevant telecommunications infrastructure; ordering those enterprises to draw up and publish a template agreement related to the provision of interconnection or network access.

By comparison to the TMA, the Fair Trade Act, or the FTA, plays a more comprehensive role in regulating all matters relating to competition between enterprises. The FTA seeks to deter and prevent anti-competitive conduct by granting the powers of the FTC to investigate and to impose penalties.

The FTA is administered and enforced by the FTC, which has independent administration rights granted to it under the FTA and is empowered to impose disciplinary actions for fair trade matters. The FTC may initiate an investigation either on its own account in accordance with its discretion granted by the FTA or upon receipt of a complaint.

Regulation on Telecommunications Enterprise with Monopoly Status

The term "monopoly" used in the FTA refers to the circumstance where an enterprise conducts its business operation in a relevant market without facing any competition or where an enterprise is able to dominate the relevant market and block competition in the market. If there are two or more enterprises within the same market that do not engage in any price competition with each other, the whole group of non-competing enterprises should be deemed as a single monopoly enterprise in the market.

The FTC has the ultimate discretion to consider an enterprise as a monopolistic enterprise upon any other events evidencing such enterprise's capability to affect the supply and demand in relevant markets or eliminate competition.

Under the FTA, any enterprise with monopoly status is prohibited from engaging in any of the following activities:

- directly or indirectly, by using any unfair method to prevent any other enterprises from competing;
- improperly set, maintain or change the price for goods or the remuneration for services;
- forcing the enterprise's trading counterpart to give preferential treatment without justification; or
- abusing its market power.

If the FTC finds an enterprise liable for violation of regulations governing monopoly, the FTC could impose a monetary fine of not more than NT\$100,000,000 each time and order such enterprise to cease such wrongdoing, rectify the conduct or take any necessary corrective action. If the FTC finds such violation serious, it may further impose a monetary fine exceeding NT\$100,000,000 but up to 10% of the total sales of the enterprise in the preceding fiscal year. Furthermore, the responsible person of such enterprise who engaged in such wrongdoing may be sentenced to imprisonment of not more than three years if the enterprise fails to follow FTC's order to cease the wrongdoing, rectify the conduct or take any necessary corrective action.

Regulations on Concerted Action (Cartel) in Telecommunication Industry

The term "concerted action (cartel)," as used in the FTA, means the competing enterprises at the same production and/or marketing stage, by means of contract, agreement or any other form of mutual understanding, jointly determine the price of goods or services, quantity, technology, products, facilities, trading counterparts, or trading territory with respect to such goods and services, or any other behavior that restrict each other's business activities, resulting in an impact on the market function with respect to production, trade in goods, or supply and demand of services. The FTC may assume a concerted action exists based on the market condition, the feature of goods or services, cost and profit, and the economic feasibility for enterprises to conduct concerted action.

Under the FTA, enterprises are prohibited from engaging in any concerted actions unless the FTC holds the concerted action may be beneficial to the overall economy and public interest.

If the FTC finds an enterprise liable for violation of regulations governing concerted action (cartel), the FTC could impose a monetary fine of not more than NT\$100,000,000 each time and order such enterprise to cease such wrongdoing, rectify the conduct or take any necessary corrective action. If the FTC finds such violation is serious, it may further impose a monetary fine exceeding NT\$100,000,000 but up to 10% of the total sales of the enterprise in the preceding fiscal year. Furthermore, the responsible person of such enterprise who engaged in such wrongdoing may be sentenced to imprisonment of not more than three years if the enterprise fails to follow FTC's order to cease the wrongdoing, rectify the conduct or take any necessary corrective action.

Regulations on Restrict Competition in Telecommunication Industry

The FTA prohibits any enterprise from conducting any of the following activities that may restrict competition:

- forcing another enterprise to discontinue supply, purchase or other business transactions with a particular enterprise for the purpose of injuring such particular enterprise;
- treating another enterprise discriminatively without justification;
- preventing competitors from participating or engaging in competition by inducing customers with low price or other illegal inducements;
- forcing another enterprise to refrain from competing in price, or to take part in a merger, or a concerted action, or to perform vertical restrictions by coercion, inducement with interest, or other improper methods; or
- setting improper restrictions on its trading counterparts' business activity as the condition to reach business engagement.

If any enterprise violates the regulations governing unfair competition, the FTC may order it to cease therefrom, rectify its conduct or take necessary corrective action within the time prescribed in the order; in addition, the FTC may assess upon such enterprise an administrative fine of not less than NT\$100,000 nor more than NT\$50,000,000. Should such enterprise fail to cease therefrom, rectify the conduct or take any necessary corrective action after the lapse of the prescribed period, the FTC may continue to order such enterprise to cease therefrom, rectify the conduct or take any necessary corrective action within the time prescribed in the order, and each time may successively assess thereupon an administrative fine of not less than NT\$200,000 nor more than NT\$100,000,000 until its ceasing therefrom, rectifying its conduct or taking the necessary corrective action.

Regulations on the Representations or Symbols Used by Telecommunications Enterprises on Goods or in Advertisement

The FTA prohibits any enterprise from making or using false or misleading representations or symbols as to price, quantity, quality, content, production process, production date, valid period, method of use, purpose of use, place of origin, manufacturer, place of manufacturing, processor, place of processing on goods, or any items which attract customers or in advertisements, or in any other way making known to the public.

If an enterprise violates the applicable provisions under the FTA that prohibit false or misleading representations, the FTC may order it to cease therefrom, rectify its conduct or take necessary corrective action within the time prescribed in the order; in addition, the FTC may assess upon such enterprise an administrative fine of not less than NT\$50,000 nor more than NT\$25,000,000. Should such enterprise fail to cease therefrom, rectify the conduct or take any necessary corrective action after the lapse of the prescribed period, the FTC may continue to order such enterprise to cease therefrom, rectify the conduct or take any necessary corrective action within the time prescribed in the order, and each time may successively assess thereupon an administrative fine of not less than NT\$100,000 nor more than NT\$50,000,000 until its ceasing therefrom, rectifying its conduct or taking the necessary corrective action.

Personal Data Protection Act

Under the Personal Data Protection Act, or PDPA, every individual or governmental or non-governmental agencies, including us, should be subject to certain requirements and restrictions for collecting, processing or using personal data. The definition of "personal data" is extended to cover a broad scope, including the name, date of birth, ID number, special features, fingerprints, marital status, family, education, occupation, medical records, medical history, genetic information, sex life, health examination report, criminal records, contact information, financial status, social activities, and any other data which is sufficient to directly or indirectly identify a specific person. If we fail to comply with the PDPA, we may be subject to serious punishment for civil claims, criminal offenses and administrative liabilities: the ceiling of the aggregate compensation amount for damages payable in a single case will be up to NT\$200 million or the actual value of loss arising from our violation provided the amount of actual value of such loss is higher than NT\$200 million; the defendant may be subject to imprisonment of up to five years; and the penalty for administrative liabilities will be up to NT\$500,000 for each violation, and may be imposed consecutively if such violation continues.

In May 2023, the PDPA was amended for the establishment of the "Personal Data Protection Commission" as the independent competent authority of the PDPA. For the preparation of the Personal Data Protection Commission, the Executive Yuan established the "Preparatory Office of Personal Data Protection Commission" on December 5, 2023. The power for supervision and enforcement of PDPA will be transferred to the Preparatory Office of Personal Data Protection Commission since January 1, 2024. The Preparatory Office of Personal Data Protection Commission will be dissolved when the Personal Data Protection Commission is formally established.

Corporate Responsibilities: Environmental, Social and Governance (ESG) Initiatives

We are dedicated to sustainable environmental, social practices and responsible governance activities. We established a Corporate Social Responsibility Committee in 2006 and were the first telecommunications service provider in Taiwan to release annually published corporate social responsibility, or CSR, reports as early as 2008. Over the years, our CSR initiatives have won a number of domestic and international CSR awards. In 2021, we restructured the Corporate Social Responsibility Committee into the Sustainability Development Committee to reflect the United Nations' Sustainable Development Goals.

In August 2023, our board of directors approved to integrate the Sustainable Development Committee with the Strategy Committee into the Sustainable Development and Strategy Committee, which was elevated to be a functional committee at the board level and currently chaired by the Chairman, also serving as the Chief Sustainability Officer. The Sustainable Development and Strategy Committee has strengthened the effectiveness of the board of directors as it guides the company to establish sustainable development visions, long-term strategies, and medium- and long-term goals in response to the global sustainable development trends. We also established the Sustainable Development Promotion Committee, which is composed of the management departments and chaired by the Chairman. The Sustainable Development Promotion Committee serves as an execution body to develop and

implement our ESG plans and initiatives in compliance with the ESG vision and mission set by our Sustainable Development and Strategy Committee.

Environmental Sustainability

While the telecommunications service is a low-pollution industry, as a member of the global community and a telecommunications industry leader in Taiwan, we have come to recognize that energy and resources, wastes, maintenance, and procurement in the operation will lead to certain level of impacts on the environment. To deal with environmental issues and mitigate the influence of climate change, we monitor and seek to incorporate environmental sustainability practices and principles in our operations, products and supply chain. Our environmental sustainability initiatives mainly include:

- climate change adaptation strategies: we established the Environmental (E) group, supervised by the Executive Vice President of Technology, to oversee the company's climate change mitigation and adaptation issues. We focus on environmental sustainability issues and regulatory progress domestically and globally, and actively align ourselves with international management systems and environmental sustainability initiatives. We continuously enhance our climate resilience of telecommunications infrastructure and communication equipment to ensure business continuity, such as planning the emergency backup capacity and adopting dual-feeder power supply for critical IDCs. Moreover, we encourage and motivate partners in the upstream and downstream to jointly attain the 1.5°C goal laid out in the Paris Agreement. We are the first telecommunications service provider in Taiwan to join the CDP Supply Chain Program that officially initiated the supply chain carbon management action in 2018, and we encourage supplier partners to disclose complete GHG information and plan for carbon reduction actions.
- carbon emission investigation: in 2023, we had finished our Scope 1 to Scope 3 Greenhouse Gas investigations for the year of 2022 and acquired 2022 ISO 14064-1:2018 verification for the parent company. We also conducted Scope 1 and Scope 2 Greenhouse Gas investigations for the year of 2022 and acquired 2022 ISO 14064-1:2018 verification for 21 subsidiaries. In addition, we purchased carbon credits in December 2023 and will utilize these carbon credits to achieve carbon neutrality in our office operations, product carbon offsetting and other measures, aiming to reach the net-zero target by 2050.
- carbon emission reduction: we have committed to and have taken actions to reduce Scope 1 and 2 Greenhouse Gas emissions. Our goal for carbon emissions in 2030 is half of those in 2020, and we committed to reaching net-zero by 2050 for these same emissions categories. To realize our commitments, we had received validation of greenhouse gas reduction near term targets from the Science Based Targets initiative, or SBTi, and further submitted long term Net Zero commitment. In addition, we have taken a series of actions, such as replacing old equipment and infrastructure, retiring old company cars with electric vehicles, using C-RAN architecture and introducing energy management on a larger scale in operation and maintenance management, to achieve carbon reduction.
- internal carbon pricing: we have adopted internal carbon pricing, or ICP, in our company since 2023 with a price of NT\$1,600 per tonne of CO2e by considering factors, such as investments in carbon reduction projects, future renewable energy demand, potential implementation of carbon fees in Taiwan and international peers comparison. The internal carbon fees collected will be used as a fund to implement our innovative projects and support our carbon reduction initiatives.
- renewable energy: in May 2023, we officially joined RE100. RE100 is a global corporate renewable energy initiative led by the Climate Group in partnership with CDP. By taking such initiative, we commit to using 100% renewable energy for IDCs by 2030 and for the Company by 2040. To achieve our commitments, we signed the power purchase agreements of solar and wind power, which could provide more than 62 million kWh yearly, and the agreements supplied us with approximately 73 million kWh in 2023. Moreover, in 2023, our board of directors approved us to enter into long-term corporate renewable power purchase agreements, or CPPAs, to obtain more renewable energy.
- sustainable procurement: we obtained certifications on ISO standards, such as ISO 14046 Water Footprint and ISO 14067 Carbon Footprint. In addition, our procurement decisions and processes are also in compliance with ISO 20400 Sustainable Procurement Guidance.

- member and board director of IOWN global forum: as a member and board director of IOWN, we are
 working with global companies to explore multi-domain cutting-edge technologies to achieve better
 energy efficiency and reduce carbon emissions such as end-to-end all photonic networks and innovative
 applications.
- biodiversity: we commit to maintaining and fostering biodiversity, avoiding all kinds of deforestation activities and promoting reforestation throughout our operations. In May 2023, we announced our plan to expand the nationwide afforestation and tree planting project with an aim of 150,000 trees in eight years. In addition, since June 2023, we have committed to achieving Net Positive Impact on biodiversity and No Net Deforestation by 2030 to abstain from all deforestation practices and actively advocate for reforestation projects to restore ecological balance.

Social Responsibility

We have committed to leveraging our technologies and capabilities to practice digital empowerments and providing a safe and healthy work environment to our employees and further contributing to our society. It mainly includes:

- employee welfare policies: to retain and motivate our employees, we increased each employee's salary by NT\$3,000 starting from January 1, 2024, with an average salary increase of more than 4%. We will also provide each employee with a food allowance starting from July 1, 2024. Moreover, in January 2024, our board of directors approved an increase in the ratio of the retention-enhanced employee stock trust incentive bonus and an increase in the compensation distribution ratio to attract and retain talents.
- workplace flexibility: we established the Kaohsiung R&D Center of Telecommunication Laboratories and the Kaohsiung Technology Center of Information Technology Group in 2023, and offered employees who wish to return to, or be closer to, their hometowns the option of working in these locations. This arrangement of workplace flexibility not only prioritizes the well-being of our employees and their families but also contributes to the growth and development all around Taiwan, particularly in the southern part of Taiwan.
- society giveback: we employ our capability of information and communication technology to bridge the digital divide for underserved groups and create digital opportunities. We focus on caring for the underprivileged to benefit from our services and Internet access and further empower the community. We tailor-made the computer-aided system for the visual-impaired to work in call centers, established the "Tech4Good Digital Empowerment Ecosystem" to provide life-changing opportunities to students in remote areas, and we leveraged our 5G private network to deliver emergency medical care services for elders in remote areas. We also organize company volunteers to participate in local community services and proactively contribute to the communities. In addition, we constantly contribute to our society with our innovation and technology.
- employee happiness: we care for our employees and constantly provide a better working environment to our employees. Our employees who have children aged six or under can enjoy a childcare allowance. In 2023, employees who have children aged three or under could apply for one hour of paid leave per working day, and the qualification of age limit for children has been approved in 2023 to be relaxed from three to six in 2024. We also offer our employees who take nursing care leave 50% of their labor insurance salary as a subsidy for 18 months after six months government subsidy. Besides, we established care centers for our employees' children to balance work and family. In addition, we implement an employee stock ownership plan through a trust by providing our employees deposit a certain amount of their salary for the Company to offer 30% of the deposit amount as their subsidies.
- equality in our workplace: we commit to creating a workplace with equality and non-discrimination. We launched a series of activities to advocate gender equality, adhered to the increase of female employees, and persisted in the implementation of comprehensive employment policies. In addition, we have well-established and unimpeded grievance mechanisms for internal employees or external personnel to submit complaint for any discrimination or harassment issues encountered.
- occupational safety and health: we commit to complying with laws and other regulations of the health and safety, and encourage our employees to take necessary precautions and immediately report

- accidents, injuries and unsafe practices or conditions. In addition, we are the first telecommunications service provider in Taiwan to comply with ISO 45001:2018.
- anti-fraud achievements: our anti-fraud measures have been at the forefront of the telecommunications industry. For example, we have developed comprehensive programs to support fraud identification and prevention by leveraging various fraud techniques and patterns as well as applying our AI+ICT information and communication technology capabilities. In addition, we launched the international fraud calls alerting service to fight against international scam phone calls. We are also in the process of launching anti-fraud voice messages as well as domestic and overseas anti-fraud SMS. From interception to alters and from fixed network to mobile network, we continue to expand protection coverage for telecommunications with an aim to benefit the society.

Corporate Governance

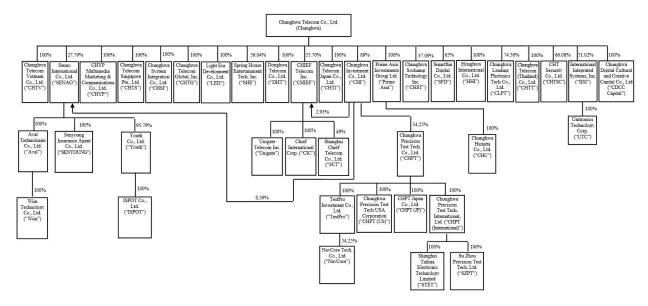
Our governance practices serve as an essential role in our ability to conduct our operations responsibly and ethically. Our governance practices mainly include:

- strategy alignment: we have committed to strong corporate governance that directly aligns with our long-term strategies and financial and operating plans. In the environment of evolving market, we also timely adjust our strategies to optimize our business and enhance our management control.
- board diversity: our board of directors is diversified to cover our business operations, operating
 dynamics and business development, with considerations of diversity in gender, age, nationality, culture
 and ethnic diversity. Our board possesses relevant competencies, including operating judgment,
 accounting and finance experience, operating and crisis management skills, industry knowledge, global
 market knowledge, leadership skills and decision-making ability.
- governance with diversity and inclusion: we have worked to create diversity so that we are more reflective of our society with a range of perspectives to support our business decision-making. Our directors also prioritize inclusion and ensure equal access of all genders and groups of employees to training, career development, nominations for promotions and professional opportunities.
- linking senior executives' compensation to ESG outcomes: we set measurable ESG targets for our senior executives in order to fulfill our ESG commitments. In 2023, 15% of the variable components of their compensation was linked to their ESG outcomes, with a target of 30% in 2025.
- incentive compensation clawback policy: our board of directors approved "Incentive Compensation Clawback Policy of Chunghwa Telecom Co., Ltd.," or the Policy, on November 8, 2023. This Policy states that the Company should recover erroneously awarded compensation which any portion of such incentive compensation is received by the covered executives during the last three full fiscal years or any applicable transition period preceding the date that the Company is required to restate its financial statements which resulting from the issuer's material noncompliance with any financial reporting requirement under securities laws.
- sustainable finance: we take ESG into account when making investment decisions, aiming to lead to
 more long-term investments in sustainable economic activities and projects. In 2023, we invested in a
 green and sustainable time deposit which is exclusively channeled into eco-friendly projects. Through
 this sustainable finance instrument, we are playing an important role in sustainability efforts and
 fulfilling our green commitments.

For further information on our ESG initiatives, please visit our annual Sustainability ESG Report, publicly available on our ESG website at: https://www.cht.com.tw/en/home/cht/esg/esg-report/sustainability-esg-report. The information contained on our website is not incorporated herein by reference and does not constitute part of this annual report.

C. Organizational Structure

Set forth below is a diagram indicating our organizational structure as of March 31, 2024. Please refer to Exhibit 8.1 for the subsidiaries' jurisdiction of incorporation.



D. Property, Plant and Equipment

Please refer to "—B. Business Overview" for a discussion of our property, plant and equipment.

ITEM 4A. UNRESOLVED STAFF COMMENTS

None.

ITEM 5. OPERATING AND FINANCIAL REVIEW AND PROSPECTS

You should read the following discussion of our financial condition and results of operations together with the consolidated financial statements and the notes to such statements included in this annual report.

For the convenience of readers, NT dollar amounts used in this section for, and as of, the year ended December 31, 2023 have been translated into U.S. dollar amounts using US\$1.00=NT\$30.62, set forth in the statistical release of the Federal Reserve Board of the United States on December 29, 2023. The U.S. dollar translation appears in parentheses next to the relevant NT dollar amount.

Overview

A number of recent and expected future developments have had, and in the future may have, a material impact on our financial condition and results of operations. These developments include:

- changes in our revenue composition and sources of revenue growth;
- tariff adjustments;
- capital expenditures as a result of technological advancements and changes in our business;
- personnel expenses; and
- taxation.

Each of these developments is discussed below.

Changes in our revenue composition and sources of revenue growth

Beginning in January 2022, we redefined our five operating segments, i.e., (i) domestic fixed communications business, (ii) mobile communications business, (iii) internet business, (iv) international fixed communications business and (v) others, into four operating segments, i.e., (i) consumer business, (ii) enterprise business, (iii) international business and (iv) others. Operating segments are defined as components of an entity regarding which discrete financial information is available for regular evaluation of the chief operating decision maker, or decision-making group, in deciding how to allocate resources and in assessing performance. For comparison purposes, segment information for the years ended December 31, 2021 has been changed to conform to the segment disclosures for the year ended December 31, 2022 and 2023.

The table below sets forth the revenues from our principal lines of business as a percentage of total revenues for the periods indicated.

	Year Ended December 31		
	2021	2022	2023
Revenues:			
Consumer Business	61.7	60.9	61.4
Enterprise Business	32.9	33.3	32.7
International Business	2.9	3.3	4.1
Others	2.5	2.5	1.8
Total	100.0	100.0	100.0

Our consumer business has been an important source of revenues over the last three years. We derive our consumer business revenues from mobile service, fixed-line service, sales and other services. Revenues from our consumer business decreased as a percentage of our total revenues in 2022, mainly attributable to a decrease in sales revenues, primarily due to the impact of the unstable supply of smartphones caused by the COVID-19 epidemic, partially offset by the increase in mobile service revenues. Revenues from our consumer business increased as a percentage of our total revenues in 2023, mainly attributable to the growth of mobile services, sales revenues, and fixed broadband services.

Our enterprise business has also significantly contributed to our revenues over the last three years. We derived our enterprise business revenues from mobile service, fixed-line service, ICT business and other services. Revenues from our enterprise business slightly increased as a percentage of our total revenues in 2022, mainly attributable to the increase in mobile 5G migration, ICT projects related to energy, COVID-19 quarantine-related SMS messages, green IDC and cloud services, partially offset by a decrease in fixed-line services revenues. Revenues from our enterprise business decreased as a percentage of our total revenues in 2023, mainly attributable to the higher basis of ICT business revenues recognized from large one-time IDC projects in 2022, partially offset by the increase in fixed broadband revenues and mobile service revenues.

Our international business has been another important source of revenues over the last three years. We derived our international business from fixed-line service, ICT business and other services. Our international business gradually increased as a percentage of our total revenues from 2.9% to 4.1% from 2021 to 2023, mainly attributable to the rising demand for ICT services, especially for services such as leased circuit, IDC, cloud, integrated ICT solutions and roaming service from global clients.

Our other revenues as a percentage of our total revenues remained flat from 2021 to 2022, and later decreased in 2023. Such trend was mainly affected by the changes in contribution from one of our subsidiaries, CHPT, a semiconductor testing company.

Tariff adjustments

We adjust our tariffs and offer promotional packages from time to time primarily in response to market conditions. We also from time to time are required to adjust our pricing in line with domestic regulations.

According to the announcement by the NCC on March 5, 2020, this round of adjustments applied to the wholesale tariffs for IP peering and domestic leased line services, which was subject to an adjustment by Δ CPI-7.48%. This round of adjustments also applied to the retail fees for xDSL and FTTx services (excluding ADSL, the services with downlink speed of 12 Mbps and below, and the services with downlink speeds of 300 Mbps and over), which was subject to an adjustment by Δ CPI-2.15%. The Δ CPI for 2022 that was used for the tariff adjustment starting from April 1, 2023 was 2.95%. In addition, on March 15, 2024, the NCC announced that, effective from April 1, 2024, next round of adjustments applied to the wholesale tariffs for IP peering and domestic leased line services, which was subject to an adjustment by Δ CPI-5.09%. This round of adjustments also applied to the retail fees for xDSL and FTTx services (excluding ADSL, the services with downlink speed of 12 Mbps and below, and the services with downlink speeds of 300 Mbps and over), which was subject to an adjustment by Δ CPI-3.32%. The Δ CPI for 2023 that was used for the tariff reduction starting from April 1, 2024 was 2.50%. We do not expect such tariff reduction to have a material adverse impact on our results of operations.

On December 14, 2020, the NCC determined that, starting from January 2021, our tariff in the mobile interconnection fees should be reduced from NT\$0.571 per minute to NT\$0.443 per minute in three years. On September 26, 2018, the NCC approved our new fixed communications network interconnection fees, The interconnection fees for local telephone and domestic long distance telephone remained the same, while the interconnection fees from mobile network to local telephone decreased, from NT\$0.4851 to NT\$0.4383 per minute during peak times and from NT\$0.2531 to NT\$0.2148 per minute during off-peak times. The tariff was effective from January 1, 2019 to December 31, 2022. On December 16, 2022, the NCC further determined that, since January 2023, our interconnection rate between fixed-line customers and other fixed-line customers is NT\$0.32 per minute during peak times and NT\$0.09 per minute during off-peak times. The interconnection rate for calls initiated by mobile customers to fixed-line customers has been NT\$0.4349 per minute during peak times and NT\$0.2059 per minute during off-peak times. However, the NCC issued a notice for the promulgation of the "Upper Limits on the Termination Rates for Voice Service over Fixed Network Provided by Significant Market Powers" on June 5, 2023. The interconnection fees of local telephones, domestic long-distance or international calls, and mobile-to-fixed-line calls should be decreased gradually from June 5, 2023 to December 31, 2026 in four years. The interconnection rate between fixed-line customers and other fixed-line customers is reduced from NT\$0.30 to NT\$0.24 per minute during peak times and from NT\$0.09 to NT\$0.08 per minute during off-peak times. The interconnection rate for fixed line customers to domestic long distance or international is reduced from NT\$0.31 to NT\$0.27 per minute. The interconnection rate for calls initiated by mobile customers to fixed-line customers is reduced from NT\$0.3943 to NT\$0.2939 per minute during peak times and from NT\$0.1883 to NT\$0.1440 per minute during off-peak times.

Besides the mandatory tariff reduction mentioned above, we, from time to time, voluntarily implemented tariff adjustments in our broadband and mobile businesses in the past few years to consolidate our market share.

Capital expenditures as a result of technological advancements and changes in our business

In recent years, we have focused on modernizing and upgrading our mobile services network and on developing our FTTx network, which enables transmission of digital information at a high bandwidth over fiber loops. Our priority is to construct fiber networks in new buildings and areas with demand for 300 Mbps/500 Mbps and above (up to 2 Gbps) per household and 10 Gbps for enterprises in the near future. Our long-term goal is to optimize our capital expenditures by focusing on investing in infrastructures to support innovative products and services with attractive return profiles. We evaluate our investment opportunities by benchmarking them against internal return requirements.

Personnel expenses

Personnel expenses constitute a significant portion of our operating costs and expenses. In 2021, 2022 and 2023, personnel expenses represented 27.1%, 26.9% and 26.2% of our total operating costs and expenses, respectively. The table below sets forth information regarding our personnel expenses and as a percentage of our total operating costs and expenses for the periods indicated.

		Year 1	Ended Deceml	oer 31		
	2021		2022		2023	
		(in billions o	f NT\$, except	percentages)		
Total personnel expenses	44.7	27.1%	45.7	26.9%	46.2	26.2%
Total operating costs and expenses	165.2	100.0%	170.0	100.0%	176.2	100.0%

At the time of our privatization, we settled all of our then existing defined benefit pension obligations in full. After completing our privatization on August 12, 2005, all of our continuing employees were deemed to have commenced employment as of August 12, 2005 for seniority purposes under our pension plans in effect after privatization. Under applicable ROC regulations, upon our privatization, the MOTC assumed the obligation to make annuity payments to all of our employees that retired before our privatization.

Taxation

The income tax rate for profit-seeking enterprises is 20% in the ROC. We benefit from tax incentives, including tax credits of up to 15% of some of our research and development expenses in accordance with the Statute for Innovating Industries. In addition, after-tax earnings not distributed to stockholders as dividends in the following year were assessed with a 5% unappropriated earnings tax. Under IFRSs, the 5% tax on unappropriated earnings is accrued during the year the earnings arise and adjusted to the extent that distributions are approved by the stockholders in the following year. As a result, our effective tax rates were 19.8% and 19.0% in 2022 and 2023, respectively.

A. Operating Results

The following table sets forth our revenues, operating costs and expenses, income from operations and other financial data for the periods indicated.

		Year Ended December 31			
	2021	2022		2023	
	NT\$	NT\$	NT\$	US\$	
		(in bi	llions)		
Revenues:					
Consumer Business	129.9	132.1	137.1	4.5	
Enterprise Business	69.3	72.1	73.0	2.4	
International Business	6.1	7.2	9.2	0.3	
Others	5.2	5.3	3.9	0.1	
Total revenues	210.5	216.7	223.2	7.3	
Operating costs	135.1	136.7	141.8	4.6	
Operating expenses:					
Marketing	21.0	22.8	23.5	0.8	
General and administrative	5.3	6.6	6.8	0.2	
Research and development	3.7	3.8	3.9	0.2	
Expected credit loss	0.1	0.1	0.2		
Total operating expenses	30.1	33.3	34.4	1.2	
Other income and expenses	(0.4)	0.1	(0.6)	_	
Income from operations	44.9	46.8	46.4	1.5	
Non-operating income and expenses	1.1	0.4	0.6	_	
Income before income tax	46.0	47.2	47.0	1.5	
Income tax expense	9.0	9.3	8.9	0.3	
Consolidated net income	37.0	37.9	38.1	1.2	
Attributable to:					
Stockholders of the parent	35.6	36.4	37.0	1.2	
Noncontrolling interests	1.4	1.5	1.1	_	

The following table sets forth our revenues, operating costs and expenses, income from operations and other financial data as a percentage of our total revenues for the periods indicated.

		Year Ended December 31		
	2021	2022	2023	
	(as	percentages of to	tal revenues)	
Revenues:				
Consumer Business	61.7	60.9	61.4	
Enterprise Business	32.9	33.3	32.7	
International Business	2.9	3.3	4.1	
Others	2.5	2.5	1.8	
Total revenues	100.0	100.0	100.0	
Operating costs	64.2	63.1	63.5	
Operating expenses:				
Marketing	9.9	10.5	10.6	
General and administrative	2.5	3.0	3.0	
Research and development	1.8	1.7	1.7	
Expected credit loss	0.1	0.1	0.1	
Total operating expenses	14.3	15.3	15.4	
Other income and expenses	(0.2)	_	(0.3)	
Income from operations	21.3	21.6	20.8	
Non-operating income and expenses	0.5	0.2	0.3	
Income before income tax	21.8	21.8	21.1	
Income tax expense	4.3	4.3	4.0	
Consolidated net income	17.5	17.5	17.1	
Attributable to:				
Stockholders of the parent	16.8	16.8	16.6	
Noncontrolling interests	0.7	0.7	0.5	

Each of our operating segments is managed separately due to the fact that each represents a strategic business unit that serves different types of customers. We measure our segment performances mainly based on revenues and income before income tax.

The year ended December 31, 2023 compared with the year ended December 31, 2022

Revenues

Our revenues increased to NT\$223.2 billion (US\$7.3 billion) in 2023 as compared to NT\$216.7 billion in 2022, due to an increase in revenues generated from consumer business, enterprise business, and international business. The details of which are as follows:

Consumer Business

Our consumer business revenues include mobile service revenues, fixed-line service revenues, sales revenues and other revenues. Consumer business revenues accounted for 60.9% and 61.4% of our revenues in 2022 and 2023, respectively. Our consumer business revenues increased by 3.8% from NT\$132.1 billion in 2022 to NT\$137.1 billion (US\$4.5 billion) in 2023, due to increases of mobile service revenues attributed to 5G mobile migration, sales revenues, and fixed broadband revenues, partially offset by a decrease of fixed voice revenues.

Mobile services. Our mobile service revenues increased by 6.4% from NT\$51.8 billion in 2022 to NT\$55.1 billion (US\$1.8 billion) in 2023 due to an increase of postpaid subscriber numbers, steady 5G migration and roaming service recovery.

Fixed-line services. Our fixed-line service revenues slightly decreased by 0.4% from NT\$42.8 billion in 2022 to NT\$42.6 billion (US\$1.4 billion) in 2023. This decrease was due to the decreased voice revenues, partially offset by the increase of data communication and broadband access revenues driven by the successful upsell propelled by the HiNet Higher-Speed promotion plan.

Sales. Revenues generated from sales increased by 4.7% from NT\$35.2 billion in 2022 to NT\$36.8 billion (US\$1.2 billion) in 2023, due to the stabilized smartphones supply and increased terminal sales.

Others. Our other revenues increased by 11.3% from NT\$2.3 billion in 2022 to NT\$2.6 billion (US\$0.1 billion) in 2023. This was due to an increase in ICT business and home security revenues.

Enterprise Business

Our enterprise business revenues include mobile service revenues, fixed-line service revenues, ICT revenues and other revenues. Revenues from our enterprise business accounted for 33.3% and 32.7% of our revenues in 2022 and 2023, respectively. Revenues from our enterprise business increased by 1.2% from NT\$72.1 billion in 2022 to NT\$73.0 billion (US\$2.4 billion) in 2023 due to 5G mobile migration, recovered roaming revenues, and the increasing need from cybersecurity and big data services.

Mobile services. Our mobile service revenues increased by 2.0% from NT\$8.9 billion in 2022 to NT\$9.1 billion (US\$0.3 billion) in 2023 due to 5G mobile migration and the recovered roaming revenues.

Fixed-line services. Our fixed-line service revenues slightly decreased by 1.6% from NT\$34.5 billion in 2022 to NT\$34.0 billion (US\$1.1 billion) in 2023 due to the decreased voice revenues, partially offset by the increase of data communication and broadband access revenues driven by the digital transformation trend and opportunities.

ICT Business. Revenues from our ICT business increased by 1.9% from NT\$24.3 billion in 2022 to NT\$24.7 billion (US\$0.8 billion) in 2023, due to the growth of cybersecurity and big data related projects.

Others. Our other revenues increased by 18.0% from NT\$4.4 billion in 2022 to NT\$5.2 billion (US\$0.2 billion) in 2023. This increase was due to the grants of 5G government subsidies and equipment sales revenues from our subsidiaries.

International Business

Revenues from international business accounted for 3.3% and 4.1% of our revenues in 2022 and 2023, respectively. Revenues from our international business increased by 27.8% from NT\$7.2 billion in 2022 to NT\$9.2 billion (US\$0.3 billion) in 2023, due to the rising demand for leased circuit, IDC, cloud, integrated ICT solutions and roaming service from global clients.

Fixed-line Services. Revenues from our fixed-line services increased by 6.4% from NT\$5.1 billion in 2022 to NT\$5.4 billion (US\$0.2 billion) in 2023, due to the growth in international network, and international private leased circuit service revenues.

ICT Business. Revenues from our ICT business increased by 88.6% from NT\$1.5 billion in 2022 to NT\$2.8 billion (US\$0.1 billion) in 2023, due to the rising demand for IDC, cloud, and integrated ICT solutions from global clients.

Others. Our other revenues increased by 54.8% from NT\$0.6 billion in 2022 to NT\$1.0 billion (US\$31.3 million) in 2023, due to an increase in mobile service revenues.

Others

Other revenues accounted for 2.5% and 1.8% of our revenues in 2022 and 2023, respectively. Our other revenues decreased from NT\$5.3 billion in 2022 to NT\$3.9 billion (US\$0.1 billion) in 2023. The decrease was due to lower revenues derived from CHPT.

Operating Costs and Expenses

Our operating costs and expenses include depreciation and amortization expenses, personnel expenses, cost of goods sold, interconnection and service costs, marketing expenses, costs of materials and maintenance, as well as spectrum usage fees.

Operating costs and expenses increased by 3.6% from NT\$170.0 billion in 2022 to NT\$176.2 billion (US\$5.8 billion) in 2023. This increase was due to increases in personnel expenses and maintenance and service costs. The increase in personnel expenses was mainly due to the increased headcount driven by the growth of our business. The increase in maintenance and service costs was mainly driven by the growth of our international roaming and fixed broadband services.

Operating Costs and Expenses by Business Segment

Consumer Business

Our consumer business costs and expenses increased by 4.5% from NT\$105.6 billion in 2022 to NT\$110.3 billion (US\$3.7 billion) in 2023, primarily due to (i) the increased headcount driven by the growth of our business, and (ii) maintenance and service costs, mainly due to the growth of our international roaming and fixed broadband services.

Enterprise Business

Our enterprise business operating costs and expenses increased by 3.8% from NT\$57.5 billion in 2022 to NT\$59.7 billion (US\$1.9 billion) in 2023. This increase was due to an increase in ICT projects costs, mainly driven by the growth of our cybersecurity and big data related projects.

International Business

Our international business operating costs and expenses increased by 25.0% from NT\$6.7 billion in 2022 to NT\$8.4 billion (US\$0.3 billion) in 2023, due to an increase in telecommunication equipment usage fees and service costs, driven by the growth of our international network and international private leased circuit service.

Others

The costs and expenses from our other business decreased by 36.7% from NT\$4.5 billion in 2022 to NT\$2.8 billion (US\$0.1 billion) in 2023, due to operating downturn for CHPT.

Other Income and Expenses

We recorded net other income of NT\$0.1 billion in 2022 and net other expenses of NT\$0.6 billion (US\$20.7 million) in 2023, respectively. The differences between 2022 and 2023 were due to the impairment loss on investment properties and property, plant and equipment in 2023.

Income from Operations and Operating Margin

As a result of the foregoing, our income from operations decreased by 1.0% from NT\$46.8 billion in 2022 to NT\$46.4 billion (US\$1.5 billion) in 2023. Our operating margin slightly decreased from 21.6% in 2022 to 20.8% in 2023.

Non-operating Income and Expenses

Our non-operating income increased from NT\$0.4 billion in 2022 to NT\$0.6 billion (US\$21.4 million) in 2023. The increase was due to an increase in interest income, driven by the rise of interest rate and increase in acquisition of time deposits and negotiable certificates of deposit.

Income before Income Tax

As a result of the foregoing, segment income before tax for our consumer business increased by 1.4% from NT\$28.5 billion in 2022 to NT\$28.9 billion (US\$0.9 billion) in 2023; segment income before tax for our enterprise business decreased by 8.0% from NT\$15.6 billion in 2022 to NT\$14.4 billion (US\$0.5 billion) in 2023; segment income before tax for our international business increased by 26.4% from NT\$1.7 billion in 2022 to NT\$2.1 billion (US\$0.1 billion) in 2023; and segment income before tax for our other business increased by 14.2% from NT\$1.4 billion in 2022 to NT\$1.6 billion (US\$52.0 million) in 2023.

Income Tax

Our income tax was NT\$9.3 billion and NT\$8.9 billion (US\$0.3 billion) in 2022 and 2023, respectively. Our effective tax rate decreased slightly from 19.8% in 2022 to 19.0% in 2023.

Net Income

As a result of the foregoing, our net income attributable to stockholders of the parent was NT\$36.4 billion and NT\$37.0 billion (US\$1.2 billion) in 2022 and 2023, respectively. Our net margin decreased from 16.8% in 2022 to 16.6% in 2023.

The year ended December 31, 2022 compared with the year ended December 31, 2021

Revenues

Our revenues increased to NT\$216.7 billion in 2022 as compared to NT\$210.5 billion in 2021, primarily due to an increase in revenues generated from consumer business, enterprise business, and international business. The details of which are as follows:

Consumer Business

Our consumer business revenues include mobile service revenues, fixed-line service revenues, sales revenues and other revenues. Consumer business revenues accounted for 61.7% and 60.9% of our revenues in 2021 and 2022, respectively. Our consumer business revenues increased by 1.7% from NT\$129.9 billion in 2021 to NT\$132.1

billion in 2022, primarily due to increases of mobile service revenues and fixed-line service revenues, partially offset by a decrease of sales revenues.

Mobile services. Our mobile service revenues increased by 5.7% from NT\$49.0 billion in 2021 to NT\$51.8 billion in 2022 due to an increase of postpaid subscriber numbers and a steady 5G migration.

Fixed-line services. Our fixed-line service revenues increased by 1.2% from NT\$42.3 billion in 2021 to NT\$42.8 billion in 2022. This increase was mainly due to a successful upsell propelled by the HiNet Higher-Speed promotion plan, partially offset by our fixed voice services revenues that continued decreasing even though the decline has decelerated.

Sales. Revenues generated from sales decreased from NT\$36.1 billion in 2021 to NT\$35.2 billion in 2022, mainly due to the impact of unstable supply of smartphones caused by the COVID-19 epidemic.

Others. Our other revenues decreased by 5.9% from NT\$2.4 billion in 2021 to NT\$2.3 billion in 2022. This was mainly due to a decrease in ICT business revenues.

Enterprise Business

Our enterprise business revenues include mobile service revenues, fixed-line service revenues, ICT revenues and other revenues. Revenues from our enterprise business accounted for 32.9% and 33.3% of our revenues in 2021 and 2022, respectively. Revenues from our enterprise business increased by 4.2% from NT\$69.3 billion in 2021 to NT\$72.1 billion in 2022 due to the robust growth of our ICT business.

Mobile services. Our mobile service revenues increased by 5.9% from NT\$8.4 billion in 2021 to NT\$8.9 billion in 2022 due to the 5G migration and the increase of subscribers.

Fixed-line services. Our fixed-line service revenues slightly decreased by 0.5% from NT\$34.7 billion in 2021 to NT\$34.5 billion in 2022 due to the decreased voice revenues, partially offset by the increase of data communication and broadband access revenues driven by the digital transformation trend and opportunities.

ICT Business. Revenues from our ICT business increased by 8.7% from NT\$22.3 billion in 2021 to NT\$24.3 billion in 2022, mainly due to our emerging growth engines, particularly IDC, cloud services and cybersecurity.

Others. Our other revenues increased by 16.4% from NT\$3.8 billion in 2021 to NT\$4.4 billion in 2022. This increase was mainly due to the grants of 5G government subsidies and equipment sales revenues from our subsidiaries.

International Business

Revenues from international business accounted for 2.9% and 3.3% of our revenues in 2021 and 2022, respectively. Revenues from our international business increased by 17.4% from NT\$6.1 billion in 2021 to NT\$7.2 billion in 2022, mainly due to the rising demand for ICT services, especially for services such as IDC and cloud services from global clients.

Fixed-line Services. Revenues from our fixed-line services increased by 1.1% from NT\$5.0 billion in 2021 to NT\$5.1 billion in 2022, mainly due to the growth in data communication and broadband access revenues.

ICT Business. Revenues from our ICT business increased by 121.8% from NT\$0.7 billion in 2021 to NT\$1.5 billion in 2022, mainly due to the rising demand for IDC and cloud services from our global clients.

Others. Our other revenues increased by 42.4% from NT\$0.4 billion in 2021 to NT\$0.6 billion in 2022, mainly due to an increase in mobile service revenues.

Others

Other revenues accounted for 2.5% and 2.5% of our revenues in 2021 and 2022, respectively. Our other revenues increased from NT\$5.2 billion in 2021 to NT\$5.3 billion in 2022. The increase was mainly due to operating growth derived from CHPT.

Operating Costs and Expenses

Our operating costs and expenses include depreciation and amortization expenses, personnel expenses, cost of goods sold, interconnection and service costs, marketing expenses, costs of materials and maintenance, as well as spectrum usage fees.

Operating costs and expenses increased by 2.9% from NT\$165.2 billion in 2021 to NT\$170.0 billion in 2022. This increase was primarily due to personnel expenses and ICT project costs. The increase in personnel expenses was mainly driven by operating growth. The increase in ICT project costs was mainly driven by the robust growth of our ICT business.

Operating Costs and Expenses by Business Segment

Consumer Business

Our consumer business costs and expenses increased by 0.4% from NT\$105.2 billion in 2021 to NT\$105.6 billion in 2022, primarily due to an increase in personnel expenses mainly driven by operating growth; an increase in depreciation and amortization expenses due to accelerating 5G network construction; and a decrease in cost of goods sold was mainly driven by the decrease in sales volume.

Enterprise Business

Our enterprise business operating costs and expenses increased by 3.5% from NT\$55.5 billion in 2021 to NT\$57.5 billion in 2022. This increase was primarily due to an increase in ICT project costs mainly driven by the robust growth of our ICT business.

International Business

Our international business operating costs and expenses increased by 10.3% from NT\$6.1 billion in 2021 to NT\$6.7 billion in 2022, primarily due to an increase in ICT project costs as a result of strong demand for IDC and cloud services from our global clients and the completion of ICT projects in 2022.

Others

The costs and expenses from our other business increased by 8.6% from NT\$4.2 billion in 2021 to NT\$4.5 billion in 2022, primarily due to operating growth derived from CHPT.

Other Income and Expenses

We recorded net other expenses of NT\$0.4 billion in 2021 and net other income of NT\$0.1 billion in 2022, respectively. The differences between 2021 and 2022 were primarily due to the impairment loss on right-of-use assets in 2021.

Income from Operations and Operating Margin

As a result of the foregoing, our income from operations increased by 4.2% from NT\$44.9 billion in 2021 to NT\$46.8 billion in 2022. Our operating margin slightly increased from 21.3% in 2021 to 21.6% in 2022.

Non-operating Income and Expenses

Our non-operating income decreased from NT\$1.1 billion in 2021 to NT\$0.4 billion in 2022. The decrease was primarily due to an increase in valuation loss on financial assets and liabilities at fair value through profit or loss and an increase in foreign currency exchange loss.

Income before Income Tax

As a result of the foregoing, segment income before tax for our consumer business increased by 3.5% from NT\$27.5 billion in 2021 to NT\$28.5 billion in 2022; segment income before tax for our enterprise business increased by 3.4% from NT\$15.1 billion in 2021 to NT\$15.6 billion in 2022; segment income before tax for our international business increased by 36.0% from NT\$1.2 billion in 2021 to NT\$1.7 billion in 2022; and segment income before tax for our other business decreased by 36.4% from NT\$2.2 billion in 2021 to NT\$1.4 billion in 2022.

Income Tax

Our income tax was NT\$9.0 billion and NT\$9.3 billion in 2021 and 2022, respectively. Our effective tax rate increased from 19.6% in 2021 to 19.8% in 2022.

Net Income

As a result of the foregoing, our net income attributable to stockholders of the parent was NT\$35.6 billion and NT\$36.4 billion in 2021 and 2022, respectively. Our net margin remained at 16.8% in 2021 and 2022.

B. Liquidity and Capital Resources

Liquidity

The following table sets forth the summary of our cash flows for the periods indicated:

	Year Ended December 31			
	2021	2022	2023	
	NT\$	NT\$	NT\$	US\$
		(in billio	ons)	
Net cash provided by operating activities	74.9	76.0	74.6	2.4
Net cash used in investing activities	(31.2)	(30.8)	(50.2)	(1.6)
Net cash used in financing activities	(34.3)	(34.8)	(40.7)	(1.3)
Effect of exchange rate changes	0.0	0.0	0.0	0.0
Net increase (decrease) in cash and cash equivalents	9.4	10.4	(16.4)	(0.5)
Cash and cash equivalents at end of year	39.8	50.2	33.8	1.1

Our primary source of liquidity is cash flow from operations, which represents operating profit adjusted for non-cash items, primarily depreciation and amortization and changes in current assets and liabilities. Notes 22, 23 and 24 to our consolidated financial statements, included elsewhere in this annual report, provide additional details as to our bank loans and bonds payable. We believe that our working capital is sufficient to meet our present cash flow requirements.

In 2023, we generated NT\$74.6 billion (US\$2.4 billion) in net cash from operating activities as compared to NT\$76.0 billion in 2022. The decrease was primarily due to a decrease in income before income tax arising from our operating performance, an increase in income tax payment and a decrease in trade notes and accounts payable.

In 2022, we generated NT\$76.0 billion in net cash from operating activities as compared to NT\$74.9 billion in 2021. The increase was primarily due to an increase in income before income tax arising from our operating performance.

In 2021, we generated NT\$74.9 billion in net cash from operating activities as compared to NT\$74.5 billion in 2020. The increase was primarily due to an increase in income before income tax, an increase in trade notes and

accounts receivable from 5G business and a decrease in payment to international carriers due to our strategy to reduce low-margin wholesale business.

Historically, our net cash from operating activities has been sufficient to cover our capital expenditures, including ongoing expansion and modernization of our networks.

In 2023, our net cash used in investing activities was NT\$50.2 billion (US\$1.6 billion), an increase from NT\$30.8 billion in 2022. The increase was primarily due to an increase in acquisition and disposal of time deposits and negotiable certificates of deposit with maturities of more than three months.

In 2022, our net cash used in investing activities was NT\$30.8 billion, a decrease from NT\$31.2 billion in 2021. The decrease was primarily due to a decrease in acquisition of property, plant and equipment in 2022, offset by proceeds of NT\$2.9 billion from disposal of investment in China Airlines, Ltd. in 2021.

In 2021, our net cash used in investing activities was NT\$31.2 billion, a decrease from NT\$68.3 billion in 2020. The decrease was primarily due to an increase in acquisition of property, plant and equipment in 2021, offset by a one-time payment of NT\$47.4 billion in 2020 for acquiring the 5G mobile broadband spectrum.

In 2023, our net cash used in financing activities totaled NT\$40.7 billion (US\$1.3 billion), which mainly reflected NT\$36.5 billion in dividends being paid.

In 2022, our net cash used in financing activities totaled NT\$34.8 billion, which mainly reflected NT\$35.7 billion in dividends being paid.

In 2021, our net cash used in financing activities totaled NT\$34.3 billion, which mainly reflected NT\$33.4 billion in dividends being paid.

Capital Resources

We have historically financed our capital expenditure requirements through operating cash flows and corporate bonds. In future years, the expansion and upgrade of our infrastructures, such as 5G mobile broadband, FTTx, international submarine cables, and IDC, introducing AI/automation technology to BSS/OSS, developing innovative solutions, and implementing ESG will be the focus of our capital expenditures. In the meantime, we also expect to make dividend payments on an ongoing basis. See "Item 8. Financial Information—A. Consolidated Statements and Other Financial Information." Furthermore, we may require working capital from time to time to finance purchases of materials for our maintenance and other overhead expenses. Over the next twelve months, we expect to implement our strategies about capital expenditures, dividend payments, debt repayments and other commitments by primarily relying on cash generated from operations, corporate bonds and loans from commercial banks.

As of December 31, 2023, our primary source of liquidity was NT\$33.8 billion (US\$1.1 billion) in cash and cash equivalents. In addition, the unused line of credit for unsecured bank loans and secured bank loans amounted to NT\$56.8 billion (US\$1.9 billion) and NT\$1.6 billion (US\$52.9 million), respectively, as of December 31, 2023.

As of December 31, 2023, we had bonds payable in the amount of NT\$30.5 billion (US\$1.0 billion) at interest rates ranging from 0.42% to 0.69%.

As of December 31, 2023, our subsidiary, Chunghwa Sochamp Technology Inc., had short-term unsecured loans of NT\$65.0 million (US\$2.1 million) at interest rates ranging from 3.00% to 3.36%.

As of December 31, 2023, our subsidiary, International Integrated Systems, Inc., had short-term unsecured loans of NT\$520.0 million (US\$17.0 million) at interest rates ranging from 2.16% to 2.18%.

As of December 31, 2023, our subsidiary, Light Era, had long-term secured loans in the amount of NT\$1.6 billion (US\$52.3 million) due in 2024 at an interest rate of 1.87%.

As part of the government's effort to upgrade the existing telecommunications infrastructure, we and other public utility companies were required by the ROC government to contribute a certain amount of money to a Piping Fund, administered by the Taipei City Government. A total of NT\$1.0 billion was contributed by us on August 15, 1996. This fund is used to finance various telecommunications infrastructure projects. We accounted for the contribution as other financial assets on our consolidated balance sheets.

Note 40 to our consolidated financial statements included elsewhere in this annual report provides a description of the assets that are pledged as collaterals for bank loans, custom duties of the imported materials and warranties of contract performance as well as the bank deposits for the restricted purpose in accordance with The Management, Utilization and Taxation of Repatriated Offshore Funds Act in the ROC.

Capital Expenditures

Our capital expenditures in 2021, 2022 and 2023 were mainly to support operations. We have financed our capital expenditures using cash flows operations and corporate bonds. The following table sets forth a summary of our capital expenditures for the periods indicated.

		Y	ear Ended Dec	ember 31		
	2021		2022		2023	3
		(in billio	ns of NT\$, exc	ept percentag	ges)	
Capital Expenditures:						
Mobile communications business	16.8	48%	13.8	44%	11.1	36%
Others	18.5	52%	17.7	56%	19.6	64%
Total capital expenditures	35.3	100%	31.5	100%	30.7	100%

The following table sets forth a summary of our planned capital expenditures for the year ending December 31, 2024.

		\$, except percentages)
Capital Expenditures:	· ·	, ,
Mobile communications business	9.6	28%
Others	24.4	72%
Total capital expenditures	34.0	100%

We expect our total capital expenditures to be approximately NT\$34.0 billion in 2024. Our capital expenditures for 2024 are planned to be allocated to our 5G network deployment, IDC construction, FTTx network expansion, international submarine cables, public switching telephone network transforming to internet protocol network, service platforms, cloud computing, IoT, ESG, and asset activation. We expect to finance these capital expenditures with our cash flows from operations.

Contractual Obligations

Set forth below are our total contractual obligations as of December 31, 2023.

	Payments Due by Period				
		Less than			More than
	Total	1 Year	1-3 years	3-5 years	5 years
		(in	billions of NT\$))	
Contractual Obligations ⁽¹⁾					
Short-term loans	0.6	0.6	_	_	_
Long-term loans	1.6	1.6	_	_	_
Bonds payable	30.5	_	10.7	15.1	4.7
Lease liabilities ⁽²⁾	11.2	3.5	4.8	2.4	0.5
Total	43.9	5.7	15.5	17.5	5.2

⁽¹⁾ Unfunded defined benefit obligation is not included as the schedule of payments is difficult to determine. We made pension contributions of approximately NT\$1.4 billion (US\$0.1 billion) in 2023 and expected to make pension contributions of approximately NT\$1.4 billion (US\$0.1 billion) in 2024. See Note 28 to our consolidated financial statements for additional details regarding our pension plan.

⁽²⁾ Operating lease obligations are described in Note 37 to our consolidated financial statements included elsewhere in the annual report.

As of December 31, 2023, we had remaining commitments under non-cancelable contracts with various parties, including the acquisition of lands and buildings of NT\$0.1 billion (US\$1.6 million) and acquisition of telecommunications-related inventory and equipment of NT\$21.8 billion (US\$0.7 billion).

We committed that when our ownership interest in NCB is greater than 25% and NCB encounters financial difficulty or capital adequacy ratio of NCB cannot meet the related regulation requirements, we will provide financial support to assist NCB to maintain in healthy financial condition.

Inflation

We do not believe that inflation in Taiwan has had a material impact on our results of operations in 2021, 2022 and 2023.

Recent Accounting Pronouncements

Major differences between IFRSs and Taiwan IFRSs

While we have adopted Taiwan IFRSs for ROC reporting purposes, we adopt IFRSs for certain filings with the SEC, including our annual reports on Form 20-F for the year ended December 31, 2013 and thereafter.

Taiwan IFRSs differs from IFRSs in certain significant respects, including to the extent that any new or amended standards or interpretations applicable under IFRSs may not be timely endorsed by the FSC. Therefore, these pronouncements will not be applicable to Taiwan IFRSs until endorsed by the FSC. Some of the major differences between IFRSs and Taiwan IFRSs that are relevant to us as of the date of this annual report are set forth below.

- the "income taxes on unappropriated earnings" should be recognized at the year of earnings under IFRSs, while it should be recognized at the year of distribution under Taiwan IFRSs.
- prior to incorporation, according to the laws and regulations applicable to state-owned enterprises in Taiwan, we recorded revenues from fixed-line service at the time the connection service was performed or the prepaid card was sold. Upon incorporation, net assets greater than capital stock was credited as additional paid-in capital. Part of our additional paid-in capital was from unearned revenues from fixed-line services as of that date. Under IFRSs, following the revenues recognition guidance, the above service revenues should be treated as deferred income and recognized over the time when the service is continuously provided or as consumed. Therefore, upon our first adoption of IFRSs, we should retrospectively decrease additional paid-in capital while increasing unappropriated earnings on the transition date of January 1, 2012. There is no difference in recognition of unearned revenues or deferred income between IFRSs and Taiwan IFRSs. However, according to the guidance released by the TWSE in March 2012, which is a part of Taiwan IFRSs, the additional paid-in capital under ROC GAAP that is not specifically promulgated under Taiwan IFRSs should not be adjusted on the transition date of January 1, 2012. Therefore, we retain such additional paid-in capital under Taiwan IFRSs.

It is difficult for us to determine the differences between Taiwan IFRSs and IFRSs on our financial statements as any new or amended standards or interpretations applicable under IFRSs may not be timely endorsed by the FSC.

Other recent accounting pronouncements under IFRSs

For a summary of new standards, amendments and interpretations issued under IFRSs but not effective for 2023 and which have not been adopted early by us, see Note 5 to our consolidated financial statements included elsewhere in this annual report.

C. Research and Development, Patents and Licenses

Our priorities for research and development in 2023 included "innovative ICT services", "advanced cloudnetwork integration technologies", and "energy-saving technologies". Key research and development achievements in 2023 are described as follows:

1. Innovative ICT services

- AIoT: vehicle-to-everything, or V2X, smart traffic control, traffic simulation and digital twins, traffic enforcement systems, smart inspection of unmanned vehicles, smart ports, etc.
- smart life: metaverse platform, metaverse virtual exhibitions, holographic concerts, conversational chatbots for video services, international incoming call fraud prevention, end-to-end encrypted communications, etc.
- artificial intelligence: acoustic recognition and generation, text analysis and generation, customer service chatbots, customer sentiment analysis, AI PaaS, human activity recognition, facial recognition, etc.
- cybersecurity: Fast Identity Online, or FIDO, mobile authentication, blockchain and smart contracts, NFT management and trading platform, zero trust architecture, 5G network security, cybersecurity for vehicle-to-everything, or V2X, etc.

2. Advanced cloud-network integration technologies

- network communication: open all-photonic network, or Open APN, Wi-Fi 6/7 wireless network, 5G/B5G SA network, 5G edge computing, 5G private network, LEO satellite network, network functions virtualization/cloudification, ultra-high-speed access network, etc.
- network operations and management: autonomous network management, mobile customer experience analysis, 5G network slicing management, telco cloud management, smart home network management, etc.
- cloud computing: multi-cloud management platform, public and hybrid cloud service and management, cloud-native management, edge computing platform, software-defined data center, etc.

3. Energy-saving technologies

• centralized energy monitoring, energy-saving solutions for data centers, base stations and network equipment, etc.

In 2023, the Company applied for a total of 169 patents and obtained 157 patents. The Company also received 17 major awards for our research and development achievements in Taiwan and internationally.

D. Trend Information

See "—Overview" for a discussion of the most significant recent trends that have had, and in the future may have, a material impact on our results of operations, financial condition and capital expenditures. In addition, see discussions included in this Item for a discussion of known trends, uncertainties, demands, commitments or events that we believe are reasonably likely to have a material effect on our net operating revenues, income from continuing operations, profitability, liquidity or capital resources, or that would cause reported financial information not necessarily to be indicative of future operating results or financial condition.

E. Critical Accounting Estimates

Information about critical accounting judgments and key sources of estimation uncertainty and assumption, please refer to Note 4 to our consolidated financial statements included in this annual report for details.

ITEM 6. DIRECTORS, SENIOR MANAGEMENT AND EMPLOYEES

A. Directors and Senior Management

Our Articles of Incorporation provide for a board of directors consisting of seven to fifteen directors bestowed with a three-year tenure. The following table sets forth the name, age and position of each of our directors and such person's position as of February 29, 2024. There is no family relationship among any of these persons. These directors have terms until May 26, 2025. Pursuant to the ROC Company Act, a person may serve as our director in his or her personal capacity or as the representative of another legal entity. A director who serves as the representative of a legal entity may be removed or replaced at any time at the discretion of that legal entity, and the replacement director may serve the remainder of the term of office of the replaced director. All of our non-independent directors are representatives of the MOTC.

Name	Age	Position
Shui-Yi Kuo	59	Chairman, Chief Executive Officer and Director
Chau-Young Lin	61	President and Director
Hsiang-Ling Hu	68	Director
Ching-Hwi Lee	60	Director
Shin-Yi Chang	64	Director
Sin-Horng Chen	70	Director
Hsiu-Chuan Tsai	56	Director
Shih-Hung Tseng	63	Director
Su-ming Lin	68	Independent Director
Chia-Chung Chen	65	Independent Director
Yu-Fen Lin	53	Independent Director
Chung-Chin Lu	65	Independent Director
Yi-Chin Tu	48	Independent Director

Shui-Yi Kuo is the Chairman, Chief Executive Officer and director of our company. Mr. Kuo assumed the role of our Chairman and Chief Executive Officer on May 5, 2023. He has served as the President and director of our company since May 2019. Prior to that, Mr. Kuo served as our Senior Executive Vice President and Chief Financial Officer from August 2017 to September 2020 and the Senior Executive Vice President of our Investment Department from March 2017 to August 2017. He also served as the Vice President of our Investment Department from November 2014 to March 2017. From November 2013 to November 2014, Mr. Kuo served as the President of Light Era Development Co., Ltd., our subsidiary. From March 2008 to November 2013, Mr. Kuo served as the Vice President of our Accounting Department. Mr. Kuo is a Certified Public Accountant of the ROC and specializes in accounting and finance, and he holds a master's degree in Accounting from National Chengchi University.

Chau-Young Lin is the President and director of our company. Before assuming the role of President in July 2023, Dr. Lin held the position of President of our Information Technology Group since April 2022. Prior to that, Dr. Lin had been the President of our Data Communications Business Group from June 2020 to April 2022 and the Senior Executive Vice President of our company from August 2019 to June 2020. He was also the President of our Southern Taiwan Business Group from March 2018 to August 2019. Dr. Lin specializes in cloud services, cybersecurity, AI, data governance, large scale information system, project management, system engineering, and he holds a Ph.D. degree in Electronic Engineering from National Taiwan University of Science and Technology.

Hsiang-Ling Hu is a director of our company. Mr. Hu is currently the Political Deputy Minister of the MOTC. Prior to that, Mr. Hu had been the Director General of the Railway Bureau of the MOTC from June 2018 to April 2021 and the Director General of the Bureau of High Speed Rail of MOTC from September 2014 to June 2018. Mr. Hu specializes in transportation planning and management, transportation systems analysis, Railway Act, as well as the operations, administration and supervision of railway tracks, and he holds a bachelor's degree in Transportation and Management from National Chiao Tung University.

Ching-Hwi Lee is a director of our company. Ms. Lee is currently the Deputy Minister of the Ministry of Culture, or MOC. Prior to that, Ms. Lee had been the Deputy Director of the National Palace Museum in Taiwan from May 2016 to March 2019 and a Special Senior Executive Officer in the Council for Cultural Affairs of the Executive Yuan from May 2004 to January 2006. Ms. Lee specializes in cultural administration, cross-boundary governance, performing arts, as well as audiovisual and music-related creative content industry, and she holds a bachelor's degree in History from National Taiwan Normal University.

Shin-Yi Chang is a director of our company. Mr. Chang is currently the director of the Accounting Department of the MOTC. Mr. Chang had been a lecturer on risk and crisis management at the National Academy of Civil Service of the Examination Yuan from August 2014 to November 2019 and the Executive Secretary of the Internal Control Project Promotion Team of the Ministry of Economic Affairs from February 2011 to January 2017. Mr. Chang specializes in accounting and risk management, and he holds a master's degree in Business Administration from National Taiwan University.

Sin-Horng Chen is a director of our company. Dr. Chen is currently a lifetime chair professor in the Department of Electrical Engineering, National Yang Ming Chiao Tung University. Prior to that, Dr. Chen had been the acting President and Vice President of National Chiao Tung University from August 2019 to January 2021 and from February 2015 to July 2019, respectively. Dr. Chen also serves as an independent director of Chinesegamer International Corporation since July 2021. Dr. Chen specializes in advanced technology development and application system development in the areas of information and communication technology, as well as speech signal processing. He holds a Ph.D. degree in Electrical Engineering from Texas Tech University.

Hsiu-Chuan Tsai is a director of our company. Dr. Tsai is currently the Chairperson and professor in the Department of Political Science, Soochow University. Prior to that, Dr. Tsai had been the Political Deputy Minister and Spokesman of the Ministry of Civil Service from February 2018 to March 2019. Dr. Tsai specializes in government governance, performance management, public human resources management, government and policy marketing, risk management, anti-corruption and transparency governance, and she holds a Ph.D. degree in Public Administration from National Chengchi University.

Shih-Hung Tseng is the labor director of our company. Mr. Tseng is currently the President of the Enterprise Union at Chunghwa Telecom's Tainan Branch and he also serves as an engineer of the Tainan Branch. Mr. Tseng has worked for the Company since June 1976. Mr. Tseng specializes in ICT, and he received an associate degree in Electronic Engineering from Kun Shan Institute of Technology.

Su-ming Lin is an independent director of our company. Dr. Lin is currently an emeritus professor in the Department of Accounting of National Taiwan University. He also serves as the independent director of Taiwan Fertilizer Co., Ltd. since July 2021 and the independent director of AP Biosciences Inc., and Sunny Friend Environmental Technology Co., Ltd. since 2023. Dr. Lin is a Certified Public Accountant of the ROC. and specializes in accounting, finance, tax laws, as well as international taxation. He has participated in Taiwan's tax reforms and served as the board member and member of the Risk Management Committee and Audit Committee in

the airlines and insurance sectors for many years. Dr. Lin holds a Ph.D. degree in Accounting from Arizona State University.

Chia-Chung Chen is an independent director of our company. Mr. Chen is currently an independent director of MOSPEC Semiconductor Corp. He also serves as an independent director of Dimerco Data System Corporation since June 2020 and a director of SysJust Co., Ltd. since 2023. Prior to that, Mr. Chen served as the chief executive officer in E.SUN Bank (China) Co., Ltd. from March 2015 to April 2019 and as the Chairman in E.SUN Securities Co., Ltd. from June 2009 to January 2012. During his capacity working as the Deputy President of E. Sun Securities, Mr. Chen was responsible for overseeing corporate risk management. Mr. Chen is also our risk management expert with almost 30 years of experience in the banking and financial industry. Mr. Chen specializes in digital finance, strategic planning, operational management, risk management and corporate governance, and he holds a master's degree in Agricultural Economics from National Taiwan University.

Yu-Fen Lin is an independent director of our company. Ms. Lin is the co-founder and managing partner of Lex & Honor Law offices. She is a transactional attorney with a board practice in business planning, corporate compliance and finance transactions. Ms. Lin also serves as an independent director of Bank SinoPac Co., Ltd. since August 2017 and SINBON Electronics Co., Ltd. since July 2021 and a supervisor of Infinity Communication Tech. Inc. since 2023. Ms. Lin specializes in particular legal areas, including international investment, corporate investment, financial, banking and electronic payment, risk management, as well as public law, and she holds a double degree of L.L.B. and B.A. from National Taiwan University.

Chung-Chin Lu is an independent director of our company. Dr. Lu has been a professor in the Department of Electrical Engineering, National Tsing Hua University since August 2000. Dr. Lu is currently a director of National Science and Technology Center for Disaster Reduction since July 2020. Dr. Lu has been teaching and researching in the areas of communication systems, networks, and information theory for more than 35 years and specializes in digital communications, error-correcting codes, systems bioinformatics, quantum computation, as well as machine learning. Dr. Lu holds a Ph.D. degree in Electrical Engineering from the University of Southern California.

Yi-Chin Tu is an independent director of our company. Mr. Tu is the founder of Taiwan AI Labs and PTT, a non-profit open-source organization of the BBS club, as well as the Chairman of the Artificial Intelligence Foundation. Mr. Tu also serves as an independent director of PChome Online Inc. since 2023. Prior to that, Mr. Tu joined Microsoft in 2006 and served as the Principal Development Manager in the Microsoft AI and Research Group. He had also been the Chief R&D Officer, leading the AI services development in the Asia Pacific region. Mr. Tu specializes in AI data governance, software platform R&D and digital talent incubation, and he holds a master's degree in Computer Science and Information Engineering from National Taiwan University.

The following person served as director on our board during 2023 but was no longer serving with us due to replacement and retirement.

Chi-Mau Sheih was the Chairman, Chief Executive Officer and director of our company. Mr. Sheih assumed the role of our Chairman and Chief Executive Officer on April 22, 2019. Prior to that, Mr. Sheih served as the President and director of our company since January 2017 and served as the Senior Executive Vice President from 2010 to 2017, the President of Southern Taiwan Business Group from 2007 to 2010 and the President of Central Taiwan Business Group from 2006 to 2007. Mr. Sheih specializes in business management, ICT, cybersecurity,

cloud computing, big data applications and commerce, and he holds an MBA degree from National Taiwan University.

The following table sets forth the name, age and position of each of our executive officers and such person's position as of February 29, 2024. There is no family relationship among any of these persons.

Name	Age	Position
Rong-Shy Lin	58	Senior Executive Vice President
Chih-Hsiung Huang	62	Senior Executive Vice President
Chih-Cheng Chien		Senior Executive Vice President and President of Network
	63	Technology Group
Yu-Shen Chen	47	Senior Executive Vice President and Chief Financial Officer
Hsueh-Hai Hu	62	President of Consumer Business Group
Pen-Yuang Chang	62	President of Enterprise Business Group
Chin-Chou Chen	60	President of International Business Group
Hey-Chyi Young	58	President of Information Technology Group
Tian-Tsair Su	61	President of Telecommunication Laboratories
Wei-Kuo Hong	63	President of Telecommunication Training Institute

Rong-Shy Lin has been our Senior Executive Vice President since June 2020 and the Chairman of SENAO International Co., Ltd. since 2022. Prior to that, Dr. Lin was the President of our Data Communications Business Group from November 2018 to June 2020. He served as the President of our Telecommunication Laboratories from November 2017 to November 2018 and the Vice President of our Telecommunication Laboratories from February 2017 to November 2017. Dr. Lin holds a Ph.D. degree in Information Engineering from National Chiao Tung University.

Chih-Hsiung Huang has been our Senior Executive Vice President since January 2024. He served as the Vice President of our Telecommunication Laboratories from July 2023 to January 2024. Prior to that, Dr. Huang served as the Vice President of our Corporate Planning Department from November 2020 to July 2023 and the Assistant Vice President from June 2017 to November 2020. Dr. Huang holds a Ph.D. degree in Electrical Engineering from National Central University.

Chih-Cheng Chien has been our Senior Executive Vice President since July 2023 and the President of our Network Technology Group since January 2022. He was a director of SENAO International Co., Ltd. from 2020 to 2023. Dr. Chien was the President of our Mobile Business Group from January 2021 to January 2022. Prior to that, Dr. Chien served as the President of our Telecommunication Training Institute from June 2020 to January 2021 and the Advisor of our Overseas New Business Office from November 2018 to June 2020. Dr. Chien holds a Ph.D. degree in Engineering Technology from National Taiwan University of Science and Technology.

Yu-Shen Chen has been the Senior Executive Vice President and Chief Financial Officer since September 2020. He has been a professor of Accounting at National Chengchi University since August 2015. He is also a director of Taiwania Capital Buffalo Fund Co., Ltd. since 2018, and he has been the supervisor of Taiwan Corporate Governance Association since 2020. Dr. Chen holds a Ph.D. degree in Accounting from the State University of New York at Buffalo.

Hsueh-Hai Hu has been the President of our Consumer Business Group since July 2023. He is also a director of SENAO International Co., Ltd. since 2023. He was the Vice President of our Consumer Business Group from January 2022 to July 2023. Prior to that, he served as the Vice President of our Mobile Business Group from February 2017 to January 2022 and the President of New Taipei Branch from April 2015 to February 2017. Mr. Hu holds a master's degree in Transportation and Communication Management from National Cheng Kung University.

Pen-Yuang Chang has been the President of our Enterprise Business Group since July 2023. He is also a director of Chief Telecom Inc. since 2024. Dr. Chang was the President of Taipei Branch from January 2023 to July 2023. Prior to that, Dr. Chang served as the President of New Taipei Branch from May 2020 to January 2023 and the Vice President of New Taipei Branch from August 2018 to May 2020. Dr. Chang holds Ph.D. degree in Computer Science from National Chiao Tung University.

Chin-Chou Chen has been the President of International Business Group since June 2023. Dr. Chen served as the Vice President of International Business Group from December 2020 to June 2023 and the Deputy Principal Engineer of International Business Group from December 2017 to December 2020. Dr. Chen holds Ph.D. degree in Electrical Engineering from National Taiwan University.

Hey-Chyi Young has been the President of our Information Technology Group since August 2023. Ms. Young served as the Vice President of Telecommunication Laboratories from November 2017 to August 2023. Prior to that, Ms. Young served as the Managing Director of our Network Management Laboratory from January 2013 to November 2017. Ms. Young holds a master's degree in Electrical and Computer Engineering from The University of Texas at Austin.

Tian-Tsair Su has been the President of our Telecommunication Laboratories since July 2023. He served as the President of Consumer Business Group from January 2022 to July 2023. He was also a director of SENAO International Co., Ltd. from 2022 to 2023. Mr. Su was the Chairman of Honghwa International Co., Ltd. from August 2019 to January 2022. Prior to that, Mr. Su served as the Senior Executive Vice President of our Administration Department from November 2017 to August 2019. Mr. Su holds a master's degree in Electrical Engineering from National Cheng Kung University.

Wei-Kuo Hong has been the President of Telecommunication Training Institute since November 2018. He served as the senior Executive Vice President from June 2020 to July 2023. Prior to that, Dr. Hong served as the Vice President of our Telecommunication Training Institute from May 2017 to November 2018 and the Assistant Vice President of our Investment Department from May 2012 to May 2017. Dr. Hong holds a Ph.D. degree in Industrial Administration from National Tsing Hua University.

The following person served as our executive officer in 2023 before retirement.

Li-Show Wu was our Senior Executive Vice President from June 2022 to January 2024 and the President of our Enterprise Business Group from January 2019 to July 2023. Ms. Wu was also a director of SENAO International Co., Ltd. and CHIEF Telecom Inc from 2022 to 2023. She was the Chairman of Honghwa International Co., Ltd. from November 2017 to January 2019. Prior to that, Ms. Wu served as the Senior Executive Vice President of our Administration Department from November 2016 to November 2017 and the Vice President of our Marketing Department from August 2015 to November 2016. Ms. Wu holds a master's degree in Applied Mathematics from National Chiao Tung University.

Hsueh-Lan Wu was the President of International Business Group from November 2018 to June 2023. Ms. Wu was the Vice President of our Enterprise Business Group from March 2018 to November 2018. Prior to that, Ms. Wu served as the Vice President of our Marketing Department from November 2016 to March 2018 and the Vice President of our Enterprise Business Group from November 2013 to November 2016. Ms. Wu holds a master's degree in Information Management from National Taiwan University.

B. Compensation

The board of directors has set up a compensation committee to be responsible for drafting, approving and periodically reviewing the compensation proposals for the directors and managers. See "C. Board Practices" for a discussion of our compensation committee.

- the chairman of our board of directors may receive a fixed monthly income of NT\$367,776 and a non-fixed income, including but not limited to performance-related bonuses or other rewards, which may not exceed his fixed income. The chairman will not receive any additional compensation for his role as a director;
- our president may receive a fixed monthly income of NT\$359,603 and a non-fixed income, including but not limited to performance-related bonuses or other rewards, which may not exceed his fixed income. The president will not receive any additional compensation for his role as a director;
- independent directors who concurrently serve in military, public office or hold teaching or administrative post may receive a fixed monthly compensation of NT\$8,000, and those who do not

- concurrently serve in military or public office or hold teaching or administrative post may receive a monthly compensation of NT\$60.000; and
- directors who serve in military, public office or hold teaching or administrative post may receive a monthly compensation of NT\$8,500, and those directors who do not serve in military and public office or hold teaching or administrative post may receive a monthly compensation of NT\$30,000.

Our Chairman and Chief Executive Officer, Mr. Shui-Yi Kuo, and our President, Dr. Chau-Young Lin, and our labor director Mr. Shih-Hung Tseng, to our board of directors, respectively, do not receive monthly compensation for acting as our directors because they receive salaries as employees.

The aggregate amount of compensation to our directors and executive officers in 2021, 2022 and 2023 was NT\$106,456,778, NT\$118,997,365 and NT\$150,681,248 (US\$4,921,007.4), respectively. The aggregate amount of compensation in 2023 includes a NT\$82,239,948 (US\$2,685,824.6) salary payment for directors and executive officers, a NT\$23,384,592 (US\$763,703.2) pension payment for executive officers, a NT\$39,796,708 (US\$1,299,696.5) bonus accrued for directors and a NT\$5,260,000 (US\$171,783.1) bonus accrued for executive officers. See "Item 10. Additional Information—B. Memorandum and Articles of Association—Dividends and Distributions" for a discussion of the distribution of bonuses and earnings.

All of our non-independent directors are legal representatives of the MOTC. The bonus in the amount of NT\$39,479,796 (US\$1,289,346.7) was paid directly to the MOTC in 2023 because such earnings distributions are not the individual income of these directors. Independent directors will not receive any earnings distributions.

Compensation Paid to Directors

Pursuant to ROC disclosure rules, we have disclosed the compensation of our directors for the fiscal year ended December 31, 2023 as follows, excluding bonus accrued for legal entity the MOTC:

Directors	Total Compensation (in millions)		
	NT\$	US\$	
Shui-Yi Kuo ⁽¹⁾	8.7	0.3	
Chi-Mau Sheih ⁽²⁾	20.3	0.7	
Chau-Young Lin ⁽³⁾	7.1	0.2	
Shin-Yi Chang	0.1		
Sin-Horng Chen	0.3	_	
Hsiang-Ling Hu	0.1		
Ching-Hwi Lee	0.1	<u> </u>	
Hsiu-Chuan Tsai	0.4		
Shih-Hung Tseng ⁽⁴⁾	1.7	0.1	
Yu-Fen Lin	0.9		
Chung-Chin Lu	0.9	_	
Yi-Chin Tu	0.9		
Chia-Chung Chen	1.0	<u> </u>	
Su-ming Lin	1.0		
Total	43.5	1.4	

⁽¹⁾ Including salary for serving as our President prior to May 5, 2023, and salary for serving as our Chief Executive Officer after that date.

Compensation Paid to Senior Management

Pursuant to ROC disclosure rules, we have disclosed the compensation range of our senior management for the fiscal year ended December 31, 2023 as follows, excluding bonus accrued for legal entity the MOTC:

⁽²⁾ Mr. Sheih retired in May 2023, and his total compensation included pensions funded according to applicable law.

⁽³⁾ As salary for serving as our President.

⁽⁴⁾ As salary for serving as our employee.

Total Compensation	Senior Management
Below NT\$1,000,000	None
NT\$1,000,000 to NT\$1,999,999	None
NT\$2,000,000 to NT\$3,499,999	None
NT\$3,500,000 to NT\$4,999,999	Hsueh-Hai Hu, Pen-Yuang Chang, Chin-Chou Chen Hey-Chyi Young, Jung-Kuei Chen
NT\$5,000,000 to NT\$9,999,999	Chau-Young Lin, Li-Show Wu, Rong-Shy Lin Chih-Cheng Chien, Yu-Shen Chen, Tian-Tsair Su Wei-Kuo Hong
NT\$10,000,000 to NT\$14,999,999	Hsueh-Lan Wu ⁽¹⁾
Above NT\$15,000,000	None
Total	13 people

⁽¹⁾ Ms. Wu retired in June 2023, and her total compensation included pensions funded according to applicable law.

The compensation committee shall periodically review and assess compensation packages for the board of directors and executive management, which are then approved by the board of directors.

The compensation of the senior executives is linked to various KPI assessments, such as corporate performance, subordinate unit performance and personal performance, along with ESG outputs as an additional reference point for variable compensation.

We accrued NT\$3,205,281 (US\$104,679.3) pension expense for executive officers mentioned above in 2023. See "Item 5. Operating and Financial Review and Prospects—Overview—Personnel expenses" and Note 28 to our consolidated financial statements included elsewhere in this annual report for descriptions about our pension plans. We do not have any service contracts with any directors providing for any benefits upon termination of employment.

C. Board Practices

We currently have 13 directors, including five independent directors. With the exception of Dr. Chau-Young Lin, who assumed the directorship on July 4, 2023, all other directors were elected on May 27, 2022. The term of all our directors is until May 26, 2025. Pursuant to the ROC Company Act, the directors may be removed from office at any time by a resolution adopted at a stockholders' meeting. The chairman of our board of directors is elected by our directors. Our chairman presides at all meetings of our board of directors and also has the authority to act as our representative. We have not entered into any contract with any of our directors by which our directors are expected to receive benefits upon termination of their employment.

Our Articles of Incorporation provide for a board of directors consisting of seven to fifteen directors, one-fifth of whom shall be expert representatives. Pursuant to the ROC Company Act, the ROC Securities and Exchange Act and Article 12-1 of our Articles of Incorporation provide for the election of, starting from the fifth commencement of the board of directors, at least three independent directors out of the 7-to-15-member board. The term "independent director" may have a different meaning when used in Taiwan than in other jurisdictions. We have used a nominating process, with the stockholders choosing the directors, including independent directors from the list of nominees. With respect to certain material decisions to be made by our board of directors as specified in the ROC Securities and Exchange Act, the Business Mergers and Acquisitions Act and other relevant laws and regulations, including the adoption or amendment to our internal control system, material loans or guarantees, the issuance of equity-type securities, matters in which directors have personal interests, the appointment and discharge of auditors, approval of financial reports, the appointment and discharge of financial, accounting or internal auditing officers and other matters prescribed by the ROC FSC or other relevant competent authorities, the dissenting opinion or qualified opinion of an independent director is required to be noted in the minutes of the board of directors' meeting and disclosed on the website maintained by the TWSE.

Our audit committee was established in September 2004 in accordance with the rules set forth in the NYSE Listed Company Manual, and was comprised of three independent directors. See "Item 16G. Corporate Governance—Audit Committee." Starting from the date of the annual general meeting in June 2013, we have established a new audit committee that replaces our supervisors and our old audit committee in accordance with Paragraph 1, Article 14-4 of the ROC Securities and Exchange Act and our Articles of Incorporation, and as a result, we simultaneously comply with the relevant rules of the NYSE Listed Company Manual and the relevant rules and regulations in the ROC. Accordingly, our audit committee is currently composed of all independent directors, namely Su-ming Lin, Chia-Chung Chen, Yu-Fen Lin, Chung-Chin Lu and Yi-Chin Tu, to be the members of the audit committee.

Under the ROC Company Act, a person may serve as our director in his personal capacity or as the representative of another legal entity. A director who serves as the representative of a legal entity may be removed or replaced at any time at the discretion of that legal entity, and the replacement director may serve the remainder of the term of office of the replaced director. Except for our five independent directors, all of our directors are representatives of the MOTC.

The business address of our directors and executive officers is the same as our registered address.

Our audit committee approves and handles following items: (i) adoption or amendment of internal control system in accordance to Article 14-1 of the Securities and Exchange Act; (ii) assessment of the effectiveness of the internal control system; (iii) adoption or amendment of procedures for handling financial or business activities of a material nature, such as acquisition or disposal of assets, derivatives trading, loaning of funds to others, and endorsements or guarantees of others, pursuant to Article 36-1 of the Securities and Exchange Act; (iv) conflicts of interest on behalf of the directors; (v) material asset or derivatives transactions; (vi) material monetary loans, endorsements, or provisions of guarantee; (vii) the offering, issuance, or private placement of any equity-type securities; (viii) the hiring or dismissal of a CPA, or the compensation given thereto; (ix) the appointment or discharge of a financial, accounting, or internal auditing supervisor; (x) annual financial reports; (xi) the matters regulated by the Business Mergers and Acquisitions Act; (xii) the first to the third quarter financial reports; (xiii) communications and discussions with CPAs; (xiv) resolutions of potential differences of opinions between Company management and CPAs; (xv) discussing and reporting other financial information and required disclosures under the U.S. Securities Exchange Act between Company management and CPAs; (xvi) approving the CPA firm's annual audit and non-audit services; and (xvii) any other material matter so required by the Company or relevant authorities. Our board of directors has concluded that Su-ming Lin and Chia-Chung Chen are our audit committee financial experts.

Additionally, we have the sustainable development and strategy committee (renamed from the corporate strategy committee on August 9, 2023). Our sustainable development and strategy committee may comprise five to nine directors. Currently, there are nine directors on the committee. It is responsible for reviewing and advising on our: (i) mid- to long-term goals and strategies (including sustainable development); (ii) sustainable development policies and management approach establishment; (iii) major investments and mergers and acquisitions; (iv) a major reorganization of our company; (v) application or return of business license; (vi) annual operating plan and budget compilation and revision; (vii) capital increase or decrease; and (viii) other major strategic issues that may affect our development. Conclusions made by the sustainable development and strategy committee are considered at a subsequent board of directors meeting.

Article 14-6 of the ROC Securities and Exchange Act requires all listed companies to establish a compensation committee for directors, supervisors, and managers' compensation, which includes salary, stock options and other rewards, as well as authorizes the FSC to enact a regulation on the authorities of the compensation committee and the qualifications of its members. Accordingly, our compensation committee is composed of three independent directors (Su-ming Lin, Chia-Chung Chen and Yu-Fen Lin) and is responsible for (i) stipulating and periodically reviewing the performance of the directors and managers, as well as the policy, system, standard, and structure of salary and compensation; and (ii) periodically reviewing and stipulating the salary and compensation of the directors and managers. The proposals of the compensation committee should be presented to the board of directors for discussion. See "Item 10. Additional Information—B. Memorandum and Articles of Association—Directors and Audit Committee."

On August 9, 2023, our board of directors approved the establishment of the risk management committee to strengthen the functions of the board and the risk management mechanism. The committee is composed of three to seven directors. Currently, there are seven directors on the committee, with the majority being independent directors of the company. The responsibilities of the committee are as follows: (i) to review risk management policies, procedures and frameworks, and periodically review their applicability and effectiveness; (ii) to approve risk appetite (risk tolerance) and guide the resource allocation; (iii) to ensure that the risk management mechanism can adequately address the risks faced by the company and integrate them into routine operational processes; (iv) to determine the priority and levels of risk control and management; (v) to review the implementation of risk management, propose improvements recommendations, and report to the board of directors regularly (at least once a year); and (vi) to implement the board of directors' risk management decisions. Conclusions made by the risk management committee will be considered at a subsequent board of directors meeting. Our risk management committee also engages with governance on information security and cybersecurity issues. See "Item 16K. Cybersecurity."

In November 2003, the SEC approved changes to the NYSE's listing standards related to the corporate governance practices of listed companies. Under these rules, listed foreign private issuers, like us, must disclose any significant ways in which their corporate governance practices differ from those followed by NYSE-listed nonforeign private issuers under the NYSE's listing standards. See "Item 16G. Corporate Governance." A copy of the significant differences between our corporate governance practices and NYSE corporate governance rules applicable to non-foreign private issuers is also available on our website at http://www.cht.com.tw. The information contained on our website is not a part of this annual report.

D. Employees

As of December 31, 2023, we had 32,383 employees on a consolidated basis. Approximately 99% of our employees were based in the ROC. The following table is a breakdown of our employees from 2021 to 2023 on a consolidated basis.

	2021	2022	2023
Employees			_
Technical	16,150	16,534	16,756
Operations	13,852	13,630	13,665
Administrative	1,810	1,865	1,962
Total	31,812	32,029	32,383

The following table is a breakdown of our employees of Chunghwa Telecom Co., Ltd. from 2021 to 2023.

	2021	2022	2023
Employees			
Technical	11,855	11,664	11,725
Operations	7,311	7,020	6,963
Administrative ⁽¹⁾	1,185	1,198	1,234
Total	20,351	19,882	19,922

(1) Included directors of Chunghwa Telecom Co., Ltd. in accordance with the ROC requirements.

As of December 31, 2023, 78.6% of our employees of Chunghwa Telecom Co., Ltd. had bachelor, master or doctoral degrees.

As of December 31, 2023, approximately 98.9% of our employees on a non-consolidated basis were members of our principal labor union. Our collective agreement sets forth work rules, grievance procedures and provides for union participation in performance evaluations and promotion decisions. Our union members also occupy a majority of the seats on our employee welfare and pension fund committees. We will continue to maintain a good relationship with our labor unions. We strive to have good communication with our employees and the labor unions by inviting representatives of our labor unions to attend various meetings related to the performance of our employees.

Pursuant to our Articles of Incorporation, our employees are entitled to 1.7% to 4.3% of the distributable earnings as employee compensation. Our practice in the past to determine the amount of the compensation has been based on the operating results. In the third quarter of 2023, we distributed compensation to our employees of NT\$1.5 billion (US\$48.9 million).

E. Share Ownership

As of February 29, 2024, our directors and executive officers personally held an aggregate of 350,878 shares of our common shares, representing around 0.005% of our outstanding common shares. The following table sets forth information with respect to the beneficial ownership of our common shares as of February 29, 2024 by each of our directors and executive officers.

Name	Number	%
Shui-Yi Kuo	35,000	*
Chau-Young Lin	20,888	*
Hsiang-Ling Hu	_	_
Ching-Hwi Lee	_	_
Shin-Yi Chang	_	_
Sin-Horng Chen	15,729	*
Hsiu-Chuan Tsai	1,000	*
Shih-Hung Tseng	2,245	*
Su-ming Lin	_	_
Chia-Chung Chen		
Yu-Fen Lin	_	_
Chung-Chin Lu		
Yi-Chin Tu	-	_
Rong-Shy Lin	40,361	*
Chih-Hsiung Huang	3,612	*
Chih-Cheng Chien	19,600	*
Yu-Shen Chen	100,000	*
Hsueh-Hai Hu	24,120	*
Pen-Yuang Chang	_	_
Chin-Chou Chen	6,304	*
Hey-Chyi Young	49,678	*
Tian-Tsair Su	32,341	*
Wei-Kuo Hong	_	_

^{*} Stockholder beneficially owns less than 1.0% of our outstanding common shares.

Employee Stock Subscription Program

Under our Articles of Incorporation, we must reserve up to 10% to 15% of any new shares for subscription by our employees whenever we issue new shares for cash, unless otherwise approved by the central competent authority.

In 2015, 2017, 2018 and 2020, our consolidated subsidiary, CHIEF, which has been a public company since November 17, 2015, granted stock options to its employees entitling them to purchase common stock of CHIEF. As of December 31, 2021, 2022 and 2023, participants in CHIEF's stock incentive plan had outstanding stock options to purchase 0.4 million, 0.1 million and 0.1 million common shares of CHIEF, respectively.

In 2019 and 2021, CHTSC, another consolidated subsidiary of ours, granted stock options to its employees to purchase common stock of CHTSC. As of December 31, 2021, 2022 and 2023, participants in CHTSC's incentive plan had outstanding stock options to purchase 6.5 million, 3.4 million and 1.6 million common shares of CHTSC, respectively.

In 2013 and 2014, our consolidated subsidiary, IISI, which has been a public company since October 20, 2016, granted stock options to its employees entitling them to purchase common stock of IISI. As of December 31, 2021, 2022 and 2023, there were no outstanding stock options.

In 2021, 2022 and 2023, our consolidated subsidiary, CLPT, granted stock options to its employees entitling them to purchase common stock of CLPT. As of December 31, 2021, 2022 and 2023, participants in CLPT's stock incentive plan had outstanding stock options to purchase 0.6 million, 1.0 million and 1.6 million common shares of CLPT, respectively.

See Note 34 to our consolidated financial statements, included elsewhere in this annual report, for additional details regarding share-based payment arrangements of CHIEF, CHTSC, IISI and CLPT.

F. Disclosure of a Registrant's Action to Recover Erroneously Awarded Compensation

On November 8, 2023, our board of directors adopted an Incentive Compensation Clawback Policy, or the Clawback Policy, providing for the recoupment of certain incentive-based compensation from current and former executive officers of our company in the event we are required to restate any of our financial statements filed with the SEC under the U.S. Securities Exchange Act in order to correct an error that is material to the previously-issued financial statements, or that would result in a material misstatement if the error were corrected in the current period or left uncorrected in the current period. Adoption of the Clawback Policy was mandated by new NYSE continued listing standards introduced pursuant to the U.S. Securities Exchange Act Rule 10D-1. In addition, Section 304 of the Sarbanes-Oxley Act of 2002 permits the SEC to order the disgorgement of bonuses and incentive-based compensation earned by a registrant issuer's chief executive officer and chief financial officer in the year following the filing of any financial statement that the issuer is required to restate because of misconduct, and the reimbursement of those funds to the issuer. A copy of the Clawback Policy has been filed herewith as Exhibit 97.

In the year ended December 31, 2023, we were not required to prepare an accounting restatement that required recovery of erroneously awarded compensation pursuant to the Clawback Policy.

ITEM 7. MAJOR STOCKHOLDERS AND RELATED PARTY TRANSACTIONS

A. Major Stockholders

The following table sets forth information known to us with respect to the beneficial ownership of our shares (i) as of February 29, 2024, the most recent practicable date and (ii) as of certain book closure dates in each of the preceding three years, for the stockholders known by us to own at least 5.0% of our outstanding common shares. Beneficial ownership is determined in accordance with the SEC's rules.

	As of March 31, 202	1	As of March 31, 2022	2	As of March 31, 2023		As of February 29, 2024	
Name	number	%	number	%	number	%	number	%
The ROC								
government(1)(2)	3,265,349,684	42.10	3,301,701,984	42.56	3,320,526,730	42.80	3,321,563,943	42.82
The MOTC	2,737,718,976	35.29	2,737,718,976	35.29	2,737,718,976	35.29	2,737,718,976	35.29
Shin Kong Life								
Insurance								
Co., Ltd ⁽²⁾	632,961,184	8.16	493,359,184	6.36	428,647,184	5.53	383,811,184	4.95

- (1) Includes shares held through the MOTC and other government-controlled entities.
- (2) Information as of July 4, 2020, August 27, 2021, July 3, 2022 and July 2, 2023 the latest book closure date, which were the most recent practicable dates for us to obtain complete ownership information.

As of February 29, 2024, 28 record holders held 18,566,141 ADSs (each representing ten common shares), which represents approximately 2.4% of our total outstanding common shares. Because many of these ADSs were held by brokers or other nominees, we cannot ascertain the exact number of beneficial shareholders with addresses in the U.S.

None of our shareholders has different voting rights from other shareholders. See "Item 10. Additional Information—B. Memorandum and Articles of Association—Voting Rights." We are not aware of any arrangement that may, at a subsequent date, result in a change of control of our company.

B. Related Party Transactions

We have not extended any loans or credit to any of our directors or executive officers, and we have not provided guarantees for borrowings by any of these persons. We have not entered into any fee-paying contracts with any of these persons for them to provide services not within his or her capacity as a director or executive officer of our company, except that three of our directors who are also our employees receive salaries from our company in their capacity as our employees.

Please refer to "Item 4. Information on the Company—A. History and Development of the Company" for a discussion of our alliances, acquisitions and investments. Please refer to Notes 3, 14, 15 and 39 to our consolidated financial statements included elsewhere in this annual report for descriptions of Chunghwa's subsidiaries, investments accounted for using equity method, and related party transactions.

On April 1, 2007, Chunghwa entered into an agreement with SENAO making SENAO the exclusive distributor of mobile handsets to Chunghwa's retail outlets. Under the terms of the agreement, SENAO also provides mobile handset sales services in Chunghwa's retail outlets, exclusively sells Chunghwa's SIM cards in SENAO's own retail stores, and gets commission, subsidies of handset sold and warranties from Chunghwa. For the year ended December 31, 2023, SENAO received NT\$7.5 billion (US\$0.2 billion) from Chunghwa. Chunghwa also sells mobile handsets to SENAO. For the year ended December 31, 2023, Chunghwa sold mobile handsets to SENAO, which amounted to NT\$4.2 billion (US\$0.1 billion).

Honghwa contracted with Chunghwa to provide on-site sales services in Chunghwa's retail stores and on-site equipment installation services to Chunghwa's customers. Chunghwa paid Honghwa approximately NT\$7.3 billion (US\$0.2 billion) in 2023 for these services.

Chunghwa acquired network equipment and related supplies from Chunghwa System Integration for approximately NT\$2.2 billion (US\$0.1 billion) in 2023.

Chunghwa paid Taiwan International Standard Electronics approximately NT\$1.1 billion (US\$34.6 million) in 2023 for the purchase of telecommunications exchange facilities and related supplies as well as the maintenance expenses.

Terms and conditions of the foregoing transactions with related parties were not significantly different from transactions with non-related parties. When no similar transactions with non-related parties can be referenced, terms and conditions were determined in accordance with mutual agreements.

C. Interests of Experts and Counsel

Not applicable.

ITEM 8. FINANCIAL INFORMATION

A. Consolidated Statements and Other Financial Information

See Item 18 for a list of all consolidated financial statements filed as part of this annual report on Form 20-F.

We are not currently involved in material litigation or other proceedings that may have or have had in the recent past, significant effects on our financial position or profitability. See "Item 4. Information on the Company—B. Business Overview—Legal Proceedings."

For our policy on dividend distributions, see "Item 10. Additional Information—B. Memorandum and Articles of Association—Dividends and Distributions." The following table sets forth the dividends declared on each of our common shares and in the aggregate for each of the years from 2019 to 2023. All of these dividends were paid, in the fiscal year following the period with respect to which the dividends relate.

	Dividends Per	Total	
	Common Share(1)	Dividends(1)	
	NT\$	NT\$ in billions	
Year ended December 31, 2019	4.2260	32.8	
Year ended December 31, 2020	4.3060	33.4	
Year ended December 31, 2021	4.6080	35.7	
Year ended December 31, 2022	4.7020	36.5	
Year ended December 31, 2023 ⁽²⁾	4.7580	36.9	

⁽¹⁾ Cash dividend unless otherwise indicated.

We commit to maximizing stockholder value and intend to maintain a sustainable dividend policy, subject to a number of commercial factors, including the interests of our stockholders, cash requirements for future capital expenditures and investments, as well as relevant industry and market practice. The amount of our net income determined for purposes of calculating our annual dividend payout will be calculated based on Taiwan IFRSs, which may differ from the amount of our net income determined in accordance with IFRSs.

B. Significant Changes

Other than as disclosed elsewhere in this annual report, we have not experienced any significant changes since the date of the annual consolidated financial statements included in this annual report.

ITEM 9. THE OFFER AND LISTING

A. Offer and Listing Details

Market Price Information for Our Common Shares

Our common shares have been listed on the TWSE under the number "2412" since October 27, 2000. There is no public market outside Taiwan for our common shares. The closing price for our common shares on the TWSE on April 8, 2024 was NT\$126.5 per share.

Market Price Information for Our American Depositary Shares

Our ADSs have been listed on the NYSE under the symbol "CHT" since July 17, 2003. The outstanding ADSs are identified by the CUSIP number 17133Q502. The closing price for our ADSs on the NYSE on April 8, 2024 was US\$39.27 per ADS. Each of our ADSs represents the right to receive ten shares.

As of April 8, 2024, a total of 18,319,541 ADSs and 7,757,446,545 common shares (including those represented by ADSs) were outstanding. With certain limited exceptions, holders of shares that are not ROC persons are required to hold these shares through a brokerage or custodial account in the ROC.

⁽²⁾ Dividends for 2023, which are calculated based on Taiwan IFRSs, were approved by the board of directors in February 2024 and to be declared at our annual general stockholders' meeting scheduled on May 31, 2024. Our payout ratio was 100.00% in 2023.

B. Plan of Distribution

Not applicable.

C. Markets

The principal trading market for our common shares is the TWSE and the principal trading market for our ADSs is the NYSE.

D. Selling Shareholders

Not applicable.

E. Dilution

Not applicable.

F. Expenses of the Issue

Not applicable.

ITEM 10. ADDITIONAL INFORMATION

A. Share Capital

Not applicable.

B. Memorandum and Articles of Association

Set forth below is information relating to our capital structure, including brief summaries of material provisions of our Articles of Incorporation, the ROC Securities and Exchange Law, the ROC Company Act, and the Telecommunications Management Act, all as currently in effect. The following summaries are qualified in their entirety by reference to our Articles of Incorporation, the ROC Securities and Exchange Law, the ROC Company Act, and the Telecommunications Management Act.

Objects and Purpose

The scope of business of Chunghwa Telecom Co., Ltd. as set forth in Article 2 of our Articles of Incorporation, includes (i) telecommunications enterprises, (ii) installation of the computer equipment and radio-frequency equipment whose operation is controlled by the telecommunication business, (iii) telecommunications equipment wholesale, retail and engineering businesses, (iv) engineering and operation of information software and information process service businesses, (v) apparatus and electric appliance installation and construction business, (vi) television program production, distribution and commercial business, (vii) broadcasting program distribution and commercial business, (viii) the third party payment business, (ix) water pipe construction business, (x) machinery and equipment manufacturing business, (xi) traffic signal installation and construction, and traffic labels construction business, (xii) medical device wholesale and retail business, and (xiii) other businesses, except any business requiring a special permit or otherwise restricted by law or regulation.

General

Under our Articles of Incorporation, our authorized capital was NT\$120,000,000,000 divided into 12,000,000,000 common shares, with a par value of NT\$10 per share. We have set aside 200,000,000 common shares from the aforementioned common shares for the exercise of any future issuances of stock warrants, preferred shares with warrants, and bonds with warrants. Our paid-in capital is NT\$77,574,465,450 divided into

7,757,446,545 common shares. We currently do not have any other equity in the form of preferred shares, bonds or otherwise outstanding as of the date of this annual report.

The MOTC, on behalf of the government of the ROC, owned approximately 35.29% of our outstanding common shares as of December 31, 2023.

Directors and Audit Committee

Our Articles of Incorporation provide for a board of directors consisting of seven to fifteen directors, and one-fifth of these directors shall be professionals of domain knowledge. See "Item 6. Directors, Senior Management and Employees—C. Board Practices." Pursuant to the ROC Securities and Exchange Act, for a company that has established an audit committee, unless otherwise provided for by law, the provisions regarding supervisors in the ROC Securities and Exchange Act, the ROC Company Act, and other laws and regulations shall apply mutatis mutandis to the audit committee.

Under the ROC Company Act, our board of directors, in conducting our business, shall act in accordance with laws and regulations, our Articles of Incorporation and the resolutions adopted at the meetings of our stockholders. Where any resolution adopted by our board of directors contravenes laws, our Articles of Incorporation and the resolutions adopted at the meetings of our stockholders, thereby causing loss or damage to us, all directors taking part in the adoption of such resolution shall be liable to compensate us for such loss or damage; however, those directors whose disagreement appears on record or is expressed in writing shall be exempted from liability.

If our board of directors decides, by resolution, to commit any act in violation of any law or our Articles of Incorporation, any of our independent directors or any stockholder who has continuously held our shares for a period of one year or longer may request our board of directors to discontinue such act. One or more stockholders who have held 1% or more of the total number of our outstanding shares for six months or a longer time may send a written request to require an independent director to bring an action on our behalf against a director for losses suffered by us as a result of unlawful actions. In addition, if our stockholders' meeting resolves to institute an action against a director, we shall, within 30 days from the date of such resolution, institute the action. In case of a lawsuit between us and a director, an independent director shall act on our behalf, unless otherwise provided by law; and our stockholders meeting may also appoint some other person to act on our behalf in a lawsuit.

According to the ROC Company Act, our board of directors owes fiduciary duty to us. Our directors are liable for the damages to be sustained by us if they breach their fiduciary duty. In addition, if a director, his or her spouse, his or her blood relative within second degree of kinship, or any company which has a controlling or subordinate relation with him or her, have a personal interest in a matter to be discussed at the meeting of the board of directors, the director shall specify such conflict; if the conflict may cause damages to our company, the director shall abstain from voting on the matter, and shall not serve as a proxy and vote on behalf of another director.

According to our Articles of Incorporation, the remuneration and compensation of the directors shall be determined by the board of directors based on the participation and the contribution of each director in the business operation of our company and referencing the regular standards of other corporations in the similar industry. Our Articles of Incorporation do not impose a mandatory retirement age for our directors. Furthermore, our Articles of Incorporation do not impose a shareholding qualification for each director. According to our Code of Ethics, we may not extend any loans to our directors.

Dividends and Distributions

At each annual general stockholders' meeting, our board of directors submits to the stockholders for their approval any proposal for the distribution of dividends or the making of any other distribution to stockholders from our net income for the preceding fiscal year. All common shares outstanding and fully paid as of the relevant record date are entitled to share equally in any dividend or other distribution so approved. Dividends may be distributed in cash, in the form of common shares or a combination of the two, as determined by the stockholders at the meeting.

We are not permitted to distribute dividends or make other distributions to stockholders in any year in which we do not have any net income or unappropriated earnings (excluding reserves). The ROC Company Act also requires that 10% of our annual net income, less prior years' losses and outstanding tax, if any, be set aside as a legal reserve until the accumulated legal reserve equals our paid-in capital. We may also set aside special reserve by the resolution of our stockholders' meeting. In addition, our Articles of Incorporation provide that at least 50% of the remaining portion of the net income, less accumulated losses, outstanding taxes, the legal reserve and any special reserve, plus accumulated retained earnings from prior years will be distributed as dividends to stockholders. Under our Articles of Incorporation, not less than 50% of the total amount of the distributed dividends must be in cash, but if the cash dividends to be distributed are less than NT\$0.10 per share, the dividends may be distributed in the form of shares. The actual percentage of distribution would take actual profitability of the year, capital budgeting, and status of finance into consideration, and would be executed following a resolution of shareholders' meeting.

Pursuant to our current Articles of Incorporation, in annual profit-making year, we should distribute 1.7% to 4.3% of profit as employees' compensation, and not more than 0.17% of profit should be distributed as directors' compensation; however, if we have any accumulated losses, an amount to offset losses should be reserved in advance.

Under the ROC Company Act, if we do not incur a loss, we are permitted to make distributions on a pro rata basis to our stockholders of additional common shares or cash by the legal reserve, the premium derived from the issuance of new shares and the income from endowments received by us. We are allowed to make the above distributions to our stockholders by legal reserve only if the legal reserve exceeds 25% of our paid-in capital. Furthermore, subject to the provision under our Articles of Incorporation, such distribution should firstly be made by the premium derived from the issuance of new shares.

Changes in Share Capital

Under the ROC Company Act, any change in our authorized share capital requires an amendment to our Articles of Incorporation, which in turn requires approval at our stockholders' meeting. Authorized but unissued common shares may be issued, subject to applicable ROC law, upon terms as our board of directors may determine.

Preemptive Rights

Under the ROC Company Act and our Articles of Incorporation, when we issue new shares for cash, unless otherwise approved by the central competent authority, our employees have rights to subscribe for between 10% and 15% of the new issue, and we have rights to restrain the shares subscribed by employees from being transferred within a specific period of time, which should not be longer than two years. Except for the shares reserved in accordance with the ROC Company Act, we are required to inform our existing shareholders of their rights to subscribe for additional shares pro rata to their respective shareholding and to note that the shareholders will lose their pre-emptive right if they fail to subscribe for the new shares within the prescribed period. In the event that there is any new share that has not been subscribed for by the existing shareholders or our employees pursuant to their respective pre-emptive rights, we may offer such shares to other investors through public offering or private negotiation with any person designated by us.

In addition, in accordance with the ROC Securities and Exchange Act, a public company such as us that intends to offer new shares for cash must offer to the public at least 10% of the shares to be sold except in certain limited circumstances. This percentage can be increased by a resolution passed at a stockholders' meeting, held in accordance with the Company Act and our Articles of Incorporation, which would diminish the number of new shares subject to the preemptive rights of existing stockholders.

Meetings of Stockholders

Pursuant to the ROC Securities and Exchange Act, as a listed company, we must hold a general shareholders' meeting within six months after the end of each fiscal year and may not seek any extension for such meeting. These meetings are generally held in New Taipei City, Taiwan. Special stockholders' meetings may be convened by resolution of the board of directors, or by the board of directors upon the written request of any stockholder or

stockholders who have held 3% or more of the issued shares continuously for one year or longer, or by the stockholders who have held over 50% of the issued shares continuously for three months or longer. Stockholders' meetings may also be convened by an independent director. Notice in writing of general meetings of stockholders, stating the place, time and agenda must be dispatched to each stockholder at least 30 days, in the case of general meetings, and 15 days, in the case of special meetings, before the date set for each meeting. Except in certain circumstances described below, a majority of the holders of all issued and outstanding common shares present at a stockholders' meeting constitutes a quorum for meetings of stockholders. Stockholders of 1% or more of the total number of our outstanding shares are entitled to submit, during the period of time prescribed by us no less than ten days, one proposal each year for consideration at our annual general stockholders' meeting in accordance with the ROC Company Act.

Voting Rights

As previously required by the ROC Company Act, our Articles of Incorporation provide that a holder of common shares has one vote for each common share. Cumulative voting applies to the election of our directors. The election of independent and non-independent directors should be held simultaneously while the ballots for the election of directors and independent directors are cast separately. According to Article 146-1 of the Insurance Act of the ROC, insurance companies that hold our shares may not be our directors or vote for the election of our directors.

In general, a resolution can be adopted by the holders of more than one-half of the common shares represented at a stockholders' meeting at which the holders of more than half of all issued and outstanding common shares are present. Under the ROC Company Act, the approval by more than one-half of the common shares represented at a stockholders' meeting in which a quorum of at least two-thirds of all issued and outstanding common shares are represented is required for major corporate actions, including:

- amendment to our Articles of Incorporation;
- entering into, modification or termination of any contracts regarding leasing of all business, outsourcing of operations or joint operations;
- transfer of the whole or substantial part of our business or assets;
- taking over of the whole of the business or assets of any other company which would have significant impact on our operations;
- distribution of any share dividend;
- dissolution;
- excusing a director from his or her non-competition obligation, which may allow such director to do anything for himself or on behalf of another person that is within the scope of our business;
- merger or spin-off; and
- dismissing of directors.

Alternatively, the ROC Company Act provides that in the case of a public company, such as us, a resolution may be adopted by the holders of at least two-thirds of the common shares represented at a meeting of stockholders at which holders of more than one-half of issued and outstanding common shares are present.

A stockholder may be represented at a general or special meeting by proxy if a valid proxy form, which is printed by the company, is delivered to us five days before the commencement of the general or special stockholders' meeting. Except for trust enterprises or share registrar approved by the Securities and Futures Bureau of the FSC, where one person is appointed as proxy by two or more stockholders who together hold more than 3% of the total issued common shares, the votes of those stockholders in excess of 3% of the outstanding common shares shall not be counted. Alternatively, if the stockholder would like to exercise its voting right at a general or special meeting but cannot be present at the meeting in person, we have set up an electronic voting mechanism for such stockholder to exercise voting right. The stockholder is not allowed to exercise voting right through an

electronic voting mechanism if such stockholder fails to revoke the granted proxy (if any) at least two days prior to the general or special meeting.

At the time of any vote, if a director of a public company has pledged more than half of the holding at the time the director was elected, such director will not be allowed to exercise the voting rights with respect to the number of shares pledged in excess of the half of the number of shares that such director held in such public company at the time the director was elected. The maximum number of shares ineligible for voting pursuant to the provision above cannot exceed half of the number of shares that such director held in such public company at the time the director was elected. In addition, any shares that were ineligible for voting pursuant to the above provision would not count as being present for such vote, but may be counted as present for calculation of attendance quorum.

Any stockholder who has a personal interest in the matter under discussion at a stockholders' meeting, the outcome of which may impair our interests, shall not vote or exercise voting rights on behalf of another stockholder; the shares held by such stockholder will not be counted as present for such vote but, may be counted as present for calculation of attendance quorum.

Holders of our ADSs generally will not be able to exercise voting rights on the common shares underlying ADSs on an individual basis.

Other Rights of Stockholders

Under the ROC Company Act and the Business Mergers and Acquisitions Act, dissenting stockholders who also made negative votes or waived their voting rights are entitled to appraisal rights in certain major corporate actions, such as a planned transfer of the whole or part of the business or a proposed merger by us. A dissenting stockholder who voted against the proposed transaction or otherwise abstained from voting may request us to purchase back all of the shares owned by the stockholder at a fair price determined by mutual agreement or determined by the court if a mutual agreement cannot be reached. For example, if we propose to split up or to consolidate or merge with another company, stockholders may exercise their appraisal rights by serving a written notice or raising his objection verbally with a record prior to or during the related stockholders' meeting. Moreover, a stockholder has the right to file a petition in the court for annulment of any resolution adopted at a stockholders' meeting where the procedures for convening the stockholders' meeting or the method of adopting the resolutions at the meeting is contrary to law or our Articles of Incorporation.

We have adopted a nomination procedure for election of directors as stipulated in the ROC Company Act, which provides that stockholders holding 1% or more of our total issued shares may submit to us a list of candidates for directors, including independent directors.

Register of Stockholders and Record Dates

Our share registrar, Yuanta Securities Co., Ltd., maintains our register of stockholders at its offices in Taipei City, Taiwan. Under the ROC Company Act, we may, by giving advance public notice, set a record date and close the register of stockholders for a specified period in order for us to determine the stockholders or pledgees that are entitled to rights pertaining to the common shares. The specified period starting from such record date (to determine the entitled stockholders or pledgees) required is as follows:

- general stockholders' meeting—60 days;
- special stockholders' meeting—30 days; and
- relevant record date for distribution of dividends or other entitlements—5 days.

Annual Consolidated Financial Statements

At least ten days before the annual general stockholders' meeting, our annual consolidated financial statements prepared in accordance with Taiwan IFRSs, the business report, and the earnings distribution or losses offsetting proposal, must be available at our principal office in Taipei City, Taiwan for inspection by the stockholders.

Transfer of Common Shares

In accordance with our Articles of Incorporation, all of our shares are currently issued and transferred in bookentry form instead of issuing physical share certificates. After the book closure date, the Taiwan Depository & Clearing Corporation, or the TDCC, will deliver the names and addresses of the shareholders as of the book closure date to our registrar, Yuanta Securities Co., Ltd. Only shareholders as of the book closure date can assert shareholder rights against us.

Acquisition of Our Own Common Shares

Under the ROC Company Act, with minor exceptions, we cannot acquire our own common shares. Any common shares acquired by us, under certain of such minor exceptions, must be sold at the market price within six months after their acquisition.

In addition, under the ROC Securities and Exchange Act, a company whose shares are listed on the TWSE or traded on the Taipei Exchange (formerly known as Gre Tai Securities Market) may, pursuant to a board resolution adopted by a majority consent at a meeting attended by more than two-thirds of the directors and pursuant to the procedures prescribed by the Securities and Futures Bureau of the FSC, purchase its shares for the following purposes on the TWSE, the Taipei Exchange or by a tender offer:

- (1) for transfers of shares to its employees;
- (2) for conversion into shares from bonds with warrants, preferred shares with warrants, convertible bonds, convertible preferred shares or certificates of warrants issued by us; and
- (3) for maintaining its credit and its stockholders' equity, provided that the shares so purchased shall be cancelled thereafter.

The total shares purchased by us shall not exceed 10% of our total issued and outstanding shares. In addition, the total amount for purchase of the shares shall not exceed the aggregate amount of our retained earnings, the premium from our shares issues and the realized portion of our capital surplus.

The shares purchased by us pursuant to items (1) and (2) above shall be transferred to the intended transferees within five years after the purchase; otherwise the same shall be cancelled. For the shares to be cancelled pursuant to item (3) above, we shall complete amendment registration for such cancellation within six months after the purchase.

The shares purchased by us shall not be pledged or hypothecated. In addition, we may not exercise any stockholders' rights attaching to these shares. Under the ROC Company Act, we may transfer the treasury stock to our employees and impose transfer restrictions on the shares up to two years.

Liquidation Rights

In the event of our liquidation, the assets remaining after payment of all debts, liquidation expenses and taxes will be distributed pro rata to the stockholders in accordance with the relevant provisions of the ROC Company Act.

Substantial Stockholders and Transfer Restrictions

The ROC Securities and Exchange Act currently requires for public companies that (i) each director, supervisor, manager, as well as their respective spouses, minor children and nominees, and substantial stockholder (i.e., a stockholder who, together with his or her spouse, minor children or nominees, holds more than 10% of the shares of a public company) to report any change in that person's shareholding to the issuer of the shares on a monthly basis and (ii) each director, supervisor, manager or substantial stockholder holding such common shares for more than a six month period to report his or her intent to transfer any shares listed on the TWSE or traded on the Taipei Exchange (formerly known as Gre Tai Securities Market) to the Securities and Futures Bureau of the FSC at least three days before the intended transfer, unless the number of shares to be transferred each day is no more than 10,000 shares. ADS holders holding more than 10% of our common shares, including common shares represented

by ADSs, may be subject to the above-mentioned obligations. Pursuant to the amendment to Article 43-1 of ROC Securities and Exchange Act passed by the Legislative Yuan and promulgated by the President on May 10, 2023, the above shareholding threshold will be changed from 10% to 5%, effective from May 10, 2024.

In addition, the number of shares that can be sold or transferred on the TWSE or the Taipei Exchange (formerly known as Gre Tai Securities Market) by any person subject to the restrictions described above on any given day may not exceed:

- 0.2% of the outstanding shares of the company in the case of a company with no more than 30 million outstanding shares;
- 0.2% of 30 million shares plus 0.1% of the outstanding shares exceeding 30 million shares in the case of a company with more than 30 million outstanding shares; or
- in any case, 5% of the average daily trading volume (number of shares) on the TWSE or the Taipei Exchange for the ten consecutive trading days preceding the reporting day on which day the director, supervisor, manager or substantial stockholder or their respective spouse, minor child or nominee reports the intended share transfer to the Securities and Futures Bureau.

Block trading, auction sale, purchase by auction, after-hours trading and sales or transfers of our ADSs are not subject to these restrictions; however, these restrictions will still apply to sales of common shares upon withdrawal of ADSs.

C. Material Contracts

We have not entered into any material contracts other than in the ordinary course of business and other than those described elsewhere in this annual report.

D. Exchange Controls

Foreign Investment and Exchange Controls in Taiwan

We have extracted from publicly available documents the information presented in this section. Please note that citizens of the PRC and entities organized in the PRC are subject to special ROC laws, rules and regulations, which are not discussed in this section.

General

Historically, foreign investments in the securities market of Taiwan were restricted. However, commencing in 1983, the Taiwan government has from time to time enacted legislation and adopted regulations to make foreign investment in the Taiwan securities market possible. Initially, only overseas investment trust funds of authorized securities investment trust enterprises established in Taiwan were permitted to invest in the Taiwan securities market. Since January 1, 1991, qualified foreign institutional investors are allowed to make investments in the Taiwan listed securities market. Since March 1, 1996, overseas Chinese, non-resident foreign institutional and individual investors (other than qualified foreign institutional investors), called "general foreign investors," are permitted to make direct investments in the Taiwan securities market.

Foreign Investment in Taiwan Securities Market

On December 28, 1990, the Executive Yuan, the cabinet of the ROC government, approved guidelines drafted by the Securities and Futures Commission (the predecessor of the Securities and Futures Bureau), which, since January 1, 1991, has allowed direct foreign investment in Taiwan's securities that are listed on the TWSE or other Taiwan securities approved by the Securities and Futures Bureau by certain eligible qualified foreign institutional investors.

In addition to qualified foreign institutional investors, certain individual and foreign institutional investors which meet certain qualifications set by the Securities and Futures Bureau may invest in the shares of TWSE-listed companies, the Taipei Exchange (formerly known as Gre Tai Securities Market) traded companies, emerging market

companies or other Taiwan securities approved by the Securities and Futures Bureau up to a limit of US\$50 million (in the case of institutional investors) and US\$5 million (in the case of individual investors) after obtaining permission from the TWSE.

On September 30, 2003 and June 15, 2004, the Securities and Futures Bureau issued amendments to the "Guideline Governing Investment in Securities by Overseas Chinese and Foreign Nationals" and relevant regulations, in which the Securities and Futures Bureau lifted certain restrictions and simplified the procedures required for foreign investments in Taiwan's securities market. The amendment focuses mainly on the following aspects:

- the concept of "qualified foreign institutional investors" no longer exists. Foreign investors are reclassified as "off-shore foreign institutional investors," "on-shore foreign institutional investors," "off-shore general foreign investors," and "on-shore general foreign investors" based on whether they are institutions or natural persons, and whether they have presences in Taiwan.
- for foreign investors to invest in Taiwan's securities market, registration with the TWSE, instead of the approval of the Securities and Futures Bureau, is required. The TWSE may withdraw or rescind the registration if the application documents submitted by foreign investors are untrue or incomplete, or if any material violation of the relevant regulations exists.
- off-shore foreign investors may provide the securities they hold as the underlying shares of depositary receipts and act as selling stockholders in depositary receipts offerings.
- off-shore foreign institutional investors are required to appoint their agent or nominee to attend the stockholders' meeting of the invested company.

Currently, subject to the specific restriction imposed by relevant regulations, the off-shore foreign institutional investors may invest in the Taiwan securities market without any amount of restriction. However, a ceiling may be separately determined by the Securities and Futures Bureau after consultation with the Central Bank of the ROC (Taiwan) for investment by offshore overseas Chinese and foreign individual investors.

Foreign Investment Approval

Other than investments permitted under Guideline Governing Investment in Securities by Overseas Chinese and Foreign Nationals, foreign investors (other than PRC persons) who wish to make (i) direct investments in the shares of Taiwan private companies or (ii) investment in 10% or more of the equity shares of a Taiwan company listed on TWSE or Taipei Exchange in any single transaction are required to submit a "foreign investment approval" application to the Investment Commission of the Ministry of Economic Affairs of Taiwan (effective from September 26, 2023, the Department of Investment Review, or DIR, Ministry of Economic Affairs), or the "Investment Commission" or other government authority to qualify for benefits granted under the Statute for Investment by Foreign Nationals/DIR. The Investment Commission or other government authority reviews each foreign investment approval application and approves or disapproves the application after consultation with other governmental agencies. Any non-Taiwan person possessing a foreign investment approval may remit capital for the approved investment and repatriate annual net profits and interests and cash dividends attributable to an approved investment. Stock dividends, investment capital and capital gains attributable to the investment may be repatriated with approval of the Investment Commission/DIR or other government authority.

In addition to the general restrictions against direct investment by non-Taiwan persons in Taiwan companies, non-Taiwan persons are currently prohibited from investing in prohibited industries in Taiwan under the Negative List promulgated by the Executive Yuan from time to time. The prohibition on direct foreign investment in the prohibited industries in the Negative List is absolute with the consequence of certain specific exemptions from the application of the Negative List. Under the Negative List, some other industries are restricted so that non-Taiwan persons may directly invest only up to a specified level and with the specific approval of the relevant authority which is responsible for enforcing the legislation which the negative list is intended to implement. The telecommunication industry is a restricted industry under the Negative List.

Depositary Receipts

In April 1992, the Securities and Futures Bureau began allowing Taiwan companies listed on the TWSE, with the prior approval of the Securities and Futures Bureau, to sponsor the issuance and sale of depositary receipts evidencing depositary shares. In December 1994, the ROC Ministry of Finance began allowing companies whose shares are traded on the Taipei Exchange (formerly known as Gre Tai Securities Market) also to sponsor the issuance and sale of depositary receipts evidencing depositary shares representing shares of its capital stock. Approvals for these issuances are still required.

After the issuance of a depositary share, a holder of the depositary receipt evidencing the depositary shares may request the depositary issuing the depositary share to cause the underlying shares to be sold in Taiwan and to distribute the proceeds of the sale to or to withdraw the shares and deliver the shares to the depositary receipt holder. A citizen of the PRC is not permitted to withdraw and hold our shares.

If you are an offshore foreign institutional investor holding the depositary receipts, you must register with the TWSE as a foreign investor before you will be permitted to withdraw the shares represented by the depositary receipts. In addition to obtaining registration with the TWSE, you must also (i) appoint a qualified local agent to, among other things, open a securities trading account with a local securities brokerage firm and a bank account to remit funds, exercise stockholders' rights and perform other functions as holders of ADSs may designate, (ii) appoint a custodian bank to hold the securities and cash proceeds, confirm transactions, settle trades and report and declare other relevant information; and (iii) appoint a tax guarantor as guarantor for the full compliance of the withdrawing depositary receipt holder's tax filing and payment obligations in the ROC. A depositary receipt holder not registered as a foreign investor with the TWSE, or not has made the necessary appointments as outlined above, will be unable to hold or subsequently transfer the shares withdrawn from the depositary receipt facility.

No deposits of shares may be made in a depositary receipt facility and no depositary shares may be issued against deposits without specific Securities and Futures Bureau approval, unless they are:

- (i) stock dividends;
- (ii) free distributions of shares;
- (iii) due to the exercise by the depositary receipt holder preemptive rights in the event of capital increases for cash: or
- (iv) if permitted under the deposit agreement and custody agreement and within the amount of depositary receipts which have been withdrawn, due to the direct purchase by investors or purchase through the depositary on the TWSE or the Taipei Exchange (formerly known as Gre Tai Securities Market) or delivery by investors of the shares for deposit in the depositary receipt facility. In this event, the total number of depositary receipts outstanding after an issuance cannot exceed the number of issued depositary receipts previously approved by the Securities and Futures Bureau of the FSC in connection with the offering plus any ADSs issued pursuant to the events described in (i), (ii) and (iii) above.

An ADS holder or the depositary, without obtaining further approvals from the Central Bank of the ROC (Taiwan) or any other governmental authority or agency of the ROC, may convert NT dollars into other currencies, including U.S. dollars, in respect of:

- the proceeds of the sale of common shares represented by ADSs or received as share dividends with respect to the common shares and deposited into the depositary receipt facility; and
- any cash dividends or distributions received from the common shares.

In addition, the depositary may also convert into NT dollars incoming payments for purchases of common shares for deposit in the depositary receipt facility against the creation of additional ADSs. If you withdraw the common shares underlying your ADSs and become a holder of our common shares, you may convert into NT dollars subscription payment for rights offerings. The depositary may be required to obtain foreign exchange payment approval from the Central Bank of the ROC (Taiwan) on a payment-by-payment basis for conversion from NT dollars into foreign currencies of the proceeds from the sale of subscription rights of new common shares.

Although it is expected that the Central Bank of the ROC (Taiwan) will grant approval as a routine matter, required approvals may not be obtained in a timely manner, or at all.

Exchange Controls

Taiwan's Foreign Exchange Control Statute and regulations provide that all foreign exchange transactions must be executed by banks designated to handle foreign exchange transactions by the FSC and by the Central Bank of the ROC (Taiwan). Current regulations favor trade-related foreign exchange transactions. Consequently, foreign currency earned from exports of merchandise and services may now be retained and used freely by exporters. All foreign currency needed for the importation of merchandise and services may be purchased freely from the designated foreign exchange banks.

Aside from trade-related foreign exchange transactions, Taiwan companies and residents may remit to and from Taiwan foreign currencies of up to US\$50 million (or its equivalent) and US\$5 million, (or its equivalent), respectively, in each calendar year. These limits apply to remittances involving conversion between New Taiwan dollars and U.S. dollars or other foreign currencies. A requirement is also imposed on all private enterprises to register all medium and long-term foreign debt with the Central Bank of the ROC (Taiwan).

In addition, a foreign person without an alien resident card or an unrecognized foreign entity may remit to and from Taiwan foreign currencies of up to US\$100,000 per remittance if required documentation is provided to Taiwan authorities. This limit applies only to remittances involving conversion between New Taiwan dollars and U.S. dollars or other foreign currencies.

E. Taxation

ROC Taxation

The discussion below describes the principal ROC tax consequences of the ownership and disposition of ADSs representing common shares and of common shares. It applies to you only if you are:

- an individual who is not a citizen of the ROC, who owns ADSs or common shares and who is not physically present in Taiwan for 183 days or more during any calendar year; or
- a corporation or a non-corporate body that is organized under the laws of a jurisdiction other than the ROC for profit-making purposes and has no fixed place of business or other permanent establishments in Taiwan.

You should also consult your tax advisors concerning the tax consequences of owning ADSs and common shares in the ROC and any other relevant taxing jurisdiction to which they are subject.

Dividends

Dividends declared by us out of our retained earnings and distributed to you are subject to ROC withholding tax, currently at the rate of 21%, pursuant to the amendment to the Standards of Withholding Rates for Various Incomes promulgated by the Ministry of Finance of the ROC effective from January 1, 2018, on the amount of the distribution in the case of cash dividends or on the par value of the common shares in the case of stock dividends.

Share or cash dividends paid by us out of our capital surplus which are derived from the issuance of shares at a premium are not subject to ROC withholding tax. According to the rulings of Ref. Tai-Tsai-Hsuei-Tzi-09504509440 issued by the Ministry of Finance of the ROC, if a company reduces its share capital and redeems for cash its outstanding common shares issued to the company's stockholders by capitalization of capital surplus, those premiums under the capitalized capital surplus derived from re-evaluation of assets, sale of lands and/or merger with other enterprises shall be deemed as the gain in the stockholders' capital investment, and shall be deemed as stockholders' dividend income (or investment revenue) and be subject to ROC income tax.

As the legal reserve is set-aside from company's profit earnings (after tax) in accordance with Article 237 of the ROC Company Act, receipt of distribution of legal reserve shall be deemed as stockholders' dividend income (or

investment revenue) and be subject to ROC income tax collected by way of withholding at the time of distribution, currently at the rate of 21%, unless a lower withholding rate is provided under a tax treaty between the ROC and the jurisdiction where the non-ROC stockholder is a resident.

Capital Gains

Gains from the sale of property in the ROC are generally subject to ROC income tax. Effective January 1, 2016, capital gain on the sale of common shares, including common shares withdrawn from the ADS facility, realized by a non-resident individual or non-resident entity is no longer subject to the capital gain tax and is further exempted from alternative minimum tax, or the AMT.

Sales of ADSs by you are regarded as transactions relating to property located outside the ROC and thus any gains derived therefrom are currently not subject to ROC income tax.

Preemptive Rights

Distributions of statutory preemptive rights for common shares in compliance with ROC law are not subject to any ROC tax. Proceeds derived from sales of statutory preemptive rights evidenced by securities are subject to securities transaction tax at the rate of 0.3% of the gross amount received. Proceeds derived from sales of statutory preemptive rights which are not evidenced by securities are subject to capital gains tax at the rate of 20% of the gains realized if the seller is a non-ROC resident regardless of whether the non-ROC resident is an individual or entity.

Subject to compliance with ROC law, we, at our sole discretion, can determine whether statutory preemptive rights shall be evidenced by issuance of securities.

Securities Transaction Tax

A securities transaction tax, at the rate of 0.3% of the gross amount received, payable by the seller will be withheld upon a sale of common shares in Taiwan. Transfers of ADSs are not subject to ROC securities transaction tax. According to a letter issued by the Ministry of Finance of the ROC in 1996, withdrawal of common shares from the deposit facility will not be subject to ROC securities transaction tax.

Estate Taxation and Gift Tax

ROC estate tax is payable on any property within Taiwan of a deceased person who is a non-resident individual, and ROC gift tax is payable on any property within Taiwan donated by any such person. Under ROC estate and gift tax laws, common shares issued by Taiwan companies are deemed located in Taiwan regardless of the location of the owner. It is not clear whether a holder of ADSs will be considered to own common shares for this purpose. Estate tax is payable at rates ranging from 10% of the first NT\$50,000,000 to 20% of amounts over NT\$100,000,000, and gift tax is payable at rates ranging from 10% of the first NT\$25,000,000 to 20% of amounts over NT\$50,000,000.

Tax Treaty

The ROC does not have an income tax treaty with the U.S. On the other hand, the ROC has income tax treaties with Indonesia, Israel, Singapore, South Africa, Australia, Vietnam, New Zealand, Malaysia, North Macedonia, Switzerland, the Netherlands, United Kingdom, Gambia, Senegal, Sweden, Belgium, Denmark, Paraguay, Hungary, France, India, Slovakia, Germany, Thailand, Eswatini, Luxembourg, Kiribati, Austria, Italy, Japan, Canada, Poland, Czech Republic, Saudi Arabia, and South Korea, which may limit the rate of ROC withholding tax on dividends paid with respect to common shares in Taiwan companies. It is unclear whether if you hold ADSs, you will be considered to hold common shares for the purposes of these treaties. Accordingly, if you may otherwise be entitled to the benefits of the relevant income tax treaty, you should consult your tax advisors concerning your eligibility for the benefits with respect to the ADSs.

U.S. Federal Income Tax Considerations for U.S. Holders

The following is a summary of certain U.S. federal income tax consequences, as of the date hereof, of the ownership and disposition of our shares and ADSs. The discussion set forth below is applicable only to beneficial owners of our shares or ADSs that hold the shares or ADSs as capital assets and that are U.S. holders (defined below) and non-residents of the ROC. You are a U.S. holder if you are:

- an individual who is a citizen or resident of the U.S.;
- a corporation, or other entity taxable as a corporation for U.S. federal income tax purposes, created or organized in or under the laws of the U.S., any state thereof or the District of Columbia;
- an estate the income of which is subject to U.S. federal income taxation regardless of its source;
- a trust if it is subject to the primary supervision of a court within the U.S. and one or more U.S. persons have the authority to control all substantial decisions of the trust; or
- a trust that has a valid election in effect under applicable U.S. Treasury regulations to be treated as a U.S. person.

This summary is based on the provisions of the Internal Revenue Code of 1986, as amended, or the Code, and regulations, rulings and judicial decisions thereunder as of the date hereof, and such authorities may be replaced, revoked or modified so as to result in U.S. federal income tax consequences different from those discussed below. We cannot assure you that a later change in law will not alter significantly the tax considerations that we describe in this summary. This summary is for general purposes only and you should not consider it to be tax advice. In addition, it assumes that the deposit agreement and any related agreement will be performed in accordance with their terms. This summary does not represent a detailed description of all the U.S. federal income tax consequences to you in light of your particular circumstances and does not address the effects of any state, local or non-U.S. tax laws (or other U.S. federal tax consequences, such as U.S. federal estate or gift tax consequences or the Medicare tax on net investment income). In addition, it does not represent a detailed description of the U.S. federal income tax consequences applicable to you if you are subject to special treatment under the U.S. federal income tax laws, including if you are:

- a dealer or broker in securities or currencies;
- a trader in securities if you elect to use a mark-to-market method of accounting for your securities holdings;
- a financial institution or an insurance company;
- a regulated investment company;
- a real estate investment trust;
- a tax-exempt organization;
- a person liable for alternative minimum tax;
- a person holding shares or ADSs as part of a hedging, integrated or conversion transaction, constructive sale or straddle;
- a person required to accelerate the recognition of any item of gross income with respect to our shares or ADSs as a result of such income being recognized on an applicable financial statement;
- a person owning, actually or constructively, 10% or more of our stock (by vote or value);
- a partnership or other pass-through entity for U.S. federal income tax purposes; or
- a person whose "functional currency" is not the U.S. dollar.

If a partnership (or other entity or arrangement treated as a partnership for U.S. federal income tax purposes) holds our shares or ADSs, the tax treatment of a partner will generally depend upon the status of the partner and the

activities of the partnership. If you are a partnership or a partner of a partnership holding our shares or ADSs, you should consult your tax advisor.

You should consult your own tax advisor concerning the particular U.S. federal income tax consequences to you of the ownership and disposition of the shares or ADSs, as well as the consequences to you arising under other U.S. federal tax laws and the laws of any other taxing jurisdiction.

In general, for U.S. federal income tax purposes, a U.S. holder who is the beneficial owner of an ADS will be treated as the owner of the shares underlying such ADS. Deposits or withdrawals of shares, actually or constructively, by U.S. holders for ADSs will not be subject to U.S. federal income tax.

Taxation of Dividends

The gross amount of distributions (other than certain pro rata distributions of shares to all stockholders) you receive on your shares or ADSs, including amounts withheld in respect of ROC withholding taxes, will generally be treated as dividend income to you to the extent the distributions are made from our current or accumulated earnings and profits as calculated according to U.S. federal income tax principles. These amounts (including withheld taxes) will be includible in your gross income as ordinary income on the day you actually or constructively receive the distributions, which in the case of an ADS will be the date actually or constructively received by the depositary. You will not be entitled to claim a dividends-received deduction generally allowed to corporations under the Code for any distributions that you receive from us.

Subject to applicable limitations (including a minimum holding period requirement), dividends received by non-corporate U.S. holders from a qualified foreign corporation may be treated as "qualified dividend income" that is subject to reduced rates of taxation. Subject to the discussion below under "—Passive Foreign Investment Company," a foreign corporation is generally treated as a qualified foreign corporation with respect to dividends paid by that corporation on shares (or ADSs backed by such shares) that are readily tradable on an established securities market in the U.S. Under current U.S. Treasury Department guidance, our ADSs, which are listed on the NYSE, but not our shares, are treated as readily tradable on an established securities market in the U.S. Thus, we do not believe that dividends that we pay on our shares that are not represented by ADSs currently meet the conditions required for these reduced tax rates. There also can be no assurance that our ADSs will continue to be readily tradable on an established securities market in the U.S. in later years, or that our shares will be readily tradable on an established securities market in the U.S. in any given year. You should consult your own tax advisor regarding the application of these rules given your particular circumstances.

The amount of any dividend paid in NT dollars will equal the U.S. dollar value of the NT dollars you receive, calculated by reference to the exchange rate in effect on the date you actually or constructively receive the dividend, which in the case of an ADS will be the date actually or constructively received by the depositary, regardless of whether the NT dollars are actually converted into U.S. dollars. If the NT dollars received as a dividend are converted into U.S. dollars on the date they are actually or constructively received, you generally will not be required to recognize foreign currency gain or loss in respect of the dividend income. If the NT dollars received as a dividend are not converted into U.S. dollars on the date of receipt, you will have a basis in the NT dollars equal to their U.S. dollar value on the date of receipt. Any gain or loss you realize if you subsequently sell or otherwise dispose of the NT dollars will be treated as ordinary income or loss from sources within the U.S. for foreign tax credit limitation purposes.

Subject to certain conditions and limitations under the Code, you may be entitled to a credit against your U.S. federal income taxes or a deduction for any ROC taxes that are withheld from dividend distributions made to you. The limitation on foreign taxes eligible for credit is calculated separately with respect to specific classes of income. For purposes of calculating the foreign tax credit, dividends we pay with respect to shares or ADSs will generally be considered passive category income from sources outside the U.S. However, a U.S. holder that has held shares or ADSs for less than a specified minimum period during which it is not protected from risk of loss, or is obligated to make payments related to the dividends, may not be allowed a foreign tax credit for foreign taxes imposed on dividends paid on shares or ADSs. Furthermore, Treasury regulations addressing foreign tax credits, or the Foreign Tax Credit Regulations, impose additional requirements for foreign taxes to be eligible for a foreign tax credit, and there can be no assurance that those requirements will be satisfied. The Treasury and the Internal Revenue Service,

or the IRS, are considering proposing amendments to the Foreign Tax Credit Regulations. In addition, recent notices from the IRS provide temporary relief by allowing taxpayers that comply with applicable requirements to apply many aspects of the foreign tax credit regulations as they previously existed (before the release of the current Foreign Tax Credit Regulations) for taxable years ending before the date that a notice or other guidance withdrawing or modifying the temporary relief is issued (or any later date specified in such notice or other guidance). Instead of claiming a foreign tax credit, you may be able to deduct ROC withholding taxes on dividends in computing your taxable income, subject to generally applicable limitations under U.S. law (including that a U.S. holder is not eligible for a deduction for otherwise creditable foreign income taxes paid or accrued in a taxable year if such U.S. holder claims a foreign tax credit for any foreign income taxes paid or accrued in the same taxable year). The rules governing the foreign tax credit and deductions for foreign taxes are complex. We therefore urge you to consult your tax advisor regarding the availability of the foreign tax credit or a deduction under your particular circumstances.

To the extent that the amount of any distribution you receive exceeds our current and accumulated earnings and profits for a taxable year, as determined under U.S. federal income tax principles, the distribution will first be treated as a tax-free return of capital, causing a reduction in your adjusted basis in the shares or ADSs and thereby increasing the amount of gain, or decreasing the amount of loss, you will recognize on a subsequent disposition of the shares or ADSs. The balance in excess of adjusted basis, if any, will be taxable to you as capital gain recognized on a sale or exchange. However, we do not expect to keep earnings and profits in accordance with U.S. federal income tax principles. Therefore, you should expect that a distribution will generally be reported as a dividend.

It is possible that pro rata distributions of shares or ADSs to all stockholders may be made in a manner that is not subject to U.S. federal income tax. In such case, the basis of any new shares or ADSs so received will generally be determined by allocating your basis in the old shares or ADSs between the old shares or ADSs and the new shares or ADSs, based on their relative fair market values on the date of distribution. For U.S. tax purposes, any such tax-free share distribution would not result in foreign source income to you. Consequently, you may not be able to use a foreign tax credit for any ROC withholding tax imposed on such distributions unless you can use the credit (subject to applicable limitations) against U.S. federal income tax due on other foreign source income in the appropriate category for foreign tax credit purposes.

Taxation of Capital Gains

When you sell or otherwise dispose of your shares or ADSs, you will generally recognize capital gain or loss in an amount equal to the difference between the U.S. dollar value of the amount realized for the shares or ADSs and your basis in the shares or ADSs, determined in U.S. dollars. Such gain or loss will generally be long-term capital gain or loss if you have held the shares or ADSs for more than one year. If you are an individual or other non-corporate holder, long-term capital gains will be eligible for reduced rates of taxation. Your ability to deduct capital losses is subject to limitations. For foreign tax credit limitation purposes, such gain or loss will generally be treated as U.S. source gain or loss.

Any ROC securities transaction taxes that you pay upon the disposition of shares generally will not be creditable foreign taxes for U.S. federal income tax purposes. You are urged to consult your tax advisors regarding the U.S. federal income tax consequences of these taxes.

Passive Foreign Investment Company

We believe that we were not a "passive foreign investment company," or PFIC, for U.S. federal income tax purposes for our taxable year ending on December 31, 2023, and we do not expect to become a PFIC for our current taxable year or in the future, although there can be no assurance in this regard. If we were treated as a PFIC for any taxable year during which you held our shares or ADSs, you could be subject to additional U.S. federal income taxes on gain recognized with respect to the shares or ADSs and on certain distributions, plus an interest charge on certain taxes treated as having been deferred under the PFIC rules.

Non-corporate U.S. holders will not be eligible for reduced rates of taxation on any dividends received from us if we are a PFIC in the taxable year in which such dividends are paid or in the preceding taxable year.

Information Reporting and Backup Withholding

In general, information reporting will apply to dividends in respect of our shares or ADSs and the proceeds from the sale, exchange or other disposition of our shares or ADSs that are paid to you within the U.S. (and in certain cases, outside the U.S.), unless you establish that you are an exempt recipient such as a corporation. A backup withholding tax may apply to such payments if you fail to provide a taxpayer identification number and a certification that you are not subject to backup withholding or if you fail to report in full dividend and interest income.

Backup withholding is not an additional tax and any amounts withheld under the backup withholding rules will be allowed as a refund or a credit against your U.S. federal income tax liability provided the required information is timely furnished to the IRS.

F. Dividends and Paying Agents

Not applicable.

G. Statement by Experts

Not applicable.

H. Documents on Display

We have filed this annual report on Form 20-F, including exhibits, with the SEC. As allowed by the SEC, in Item 19 of this annual report, we incorporate by reference certain information we have already filed with the SEC. This means that we can disclose important information to you by referring you to another document filed separately with the SEC. The information incorporated by reference is considered to be part of this annual report.

You may read and copy this annual report, including the exhibits incorporated by reference in this annual report, at the SEC's Public Reference Room at 100 F Street, N.E., Washington, D.C. 20549 and at the SEC's regional offices in New York, New York and Chicago, Illinois. You also can obtain copies of this annual report, including the exhibits incorporated by reference in this annual report, from the SEC's Public Reference Room and regional offices upon payment of a duplicating fee.

The SEC also maintains a website at www.sec.gov that contains reports, proxy statements and other information regarding registrants that file electronically with the SEC. Our annual report and some of the other information submitted by us to the SEC may be accessed through this website.

I. Subsidiary Information

Not applicable.

J. Annual Report to Security Holders

Not applicable.

ITEM 11. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

Market risk is the risk of loss related to adverse changes in market prices, including interest rates and foreign exchange rates, of financial instruments. In the normal course of business, we are routinely subject to a variety of risks, including market risk associated with interest rate movements, currency rate movements on non-NT dollar-denominated assets and liabilities and equity price movements on our portfolio of equity securities.

We regularly assess these financial instruments and their ability to address market risk and have established policies and business practices to protect against the adverse effects of these and other potential exposures.

Interest Rate Risk

We do not expect interest rate risk to have a material impact on our financial condition and results of operations. Please refer to "Item 5. Operating and Financial Review and Prospects—B. Liquidity and Capital Resources" for a discussion of our loans.

For our non-fixed interest rate loans, the interest rates will change in accordance with the benchmark rates of the banks we borrowed from. For the financial assets, the risk associated with fluctuating interest rates is principally confined to our cash deposits in banks, which is one of the many ways we manage our capital. Assuming an increase or decrease of 0.25% in the interest rates of our non-fixed interest rate financial assets and loans, our profit before tax for the year ended December 31, 2023 would have increased or decreased by NT\$17.4 million (US\$0.6 million). We have not used any derivative financial instruments to hedge interest rate risk. We have not been exposed, nor do we anticipate being exposed to material risks due to changes in interest rates. As of December 31, 2023, our cash and cash equivalents amounted to NT\$33.8 billion (US\$1.1 billion). Interest income from our cash deposits in banks accounts for only a very small percentage of our total revenues. Therefore, we believe our exposure to interest rate risk is immaterial.

Foreign Currency Risk

We are exposed to foreign currency risk as a result of (i) our foreign currency and derivative trading activities; (ii) our telecommunications equipment being sourced from overseas suppliers; (iii) our international settlement payments associated with our services for international calls and roaming traffic; and (iv) investment denominated in foreign currencies.

We entered into forward exchange contracts to reduce our exposure to foreign currency risk due to fluctuations in exchange rates. Outstanding forward exchange contracts on December 31, 2023 were as follows:

	Currencies	Maturity	Contract
FX Instrument	Involved	Period	Amount
Forward exchange contracts-Buy	NT\$/EUR	March 2024	NT\$145 million/EUR4 million
Forward exchange contracts-Buy	NT\$/EUR	March 2024	NT\$24 million/EUR1 million

Note 37 to our consolidated financial statements included elsewhere in this annual report provides a sensitivity analysis for foreign currency risk.

Equity Price Risk

We are exposed to equity price risk as a result of holding other company's equity and we manage our investment portfolio in accordance with our internal policies and procedures.

The table below presents the carrying amount and accumulated unrealized gain or loss for our financial assets at fair value through profit or loss, or FVTPL, and financial assets at fair value through other comprehensive income, or FVOCI, as of December 31, 2023.

	Carrying Amount NT\$	Unrealized Gain NT\$ (in millions)	Unrealized Loss NT\$
Financial assets at FVTPL			
Listed stocks	1		
Non-listed stocks and limited partnership	1,012	27	200
Financial assets at FVOCI			
Listed stocks	243	<u> </u>	130
Non-listed stocks	4,169	1,164	561

The value of our equity holdings fluctuates depending on the market conditions. Assuming an increase or decrease of 5% in the equity prices, our profit before tax and other comprehensive income before tax for the year ended December 31, 2023 would have increased or decreased by NT\$51 million (US\$1.7 million) and NT\$221 million (US\$7.2 million) as a result of the changes in fair value of financial assets at FVOPL and financial assets at FVOCI, respectively. However, we do not expect the gains and losses in the values of the equities that we hold to have a material impact on our financial condition and results of operations.

ITEM 12. DESCRIPTION OF SECURITIES OTHER THAN EQUITY SECURITIES

A. Debt Securities

Not applicable.

B. Warrants and Rights

Not applicable.

C. Other Securities

Not applicable.

D. American Depositary Shares

Depositary Fees

Under the terms of the deposit agreement for our ADSs, an ADS holder may have to pay the following service fees to the depositary:

Service	Fees
Issuance of ADSs	Up to US\$5.00 per 100 ADS issued
Cancellation of ADSs	Up to US\$5.00 per 100 ADS cancelled
Distribution of cash dividends or other cash distributions	Up to US\$0.02 per ADS held
Distribution of ADSs pursuant to stock dividends, free stock	Up to US\$5.00 per 100 ADS held
distributions or exercises of rights	
Distribution of securities other than ADSs or rights to purchase	Up to US\$5.00 per 100 ADS held
additional ADSs	

Depositary Charges

In addition, an ADS holder shall be responsible for the following charges:

- taxes and other governmental charges;
- such registration fees as may from time to time be in effect for the registration of common shares or
 other deposited securities on the share register and applicable to transfers of common shares or other
 deposited securities to or from the name of the custodian, the depositary or any nominees upon the
 making of deposits and withdrawals, respectively;
- such SWIFT, facsimile transmission and other communication expenses as are expressly provided in the deposit agreement;
- the expenses and charges incurred by the depositary in the conversion of foreign currency; and
- any other charge payable by the depositary in connection with the servicing of common shares or other deposited securities.

Depositary fees payable upon the issuance and cancellation of ADSs are typically paid to the depositary by the brokers (on behalf of their clients) receiving the newly-issued ADSs from the depositary and by the brokers (on behalf of their clients) delivering the ADSs to the depositary for cancellation. The brokers in turn charge these transaction fees to their clients.

Depositary fees payable in connection with distributions of cash or securities to ADS holders and the depositary services fee are charged by the depositary to the holders of record of ADSs as of the applicable ADS record date. The depositary fees payable for cash distributions are generally deducted from the cash being distributed. In the case of distributions other than cash (i.e., stock dividends, rights offerings), the depositary charges the applicable fee to the ADS record date holders concurrent with the distribution. In the case of ADSs registered in the name of the investor (whether certificated or un-certificated in direct registration), the depositary sends invoices to the applicable record date ADS holders. In the case of ADSs held in brokerage and custodian accounts via the central clearing and settlement system, The Depository Trust Company, or DTC, the depositary generally collects its fees through the systems provided by DTC (whose nominee is the registered holder of the ADSs held in DTC) from the brokers and custodians holding ADSs in their DTC accounts. The brokers and custodians who hold their clients' ADSs in DTC accounts in turn charge their clients' accounts the amount of the fees paid to the depositary.

In the event of refusal to pay the depositary fees and charges, the depositary may, under the terms of the deposit agreement, refuse the requested service until payment is received or may set off the amount of the depositary fees from any distribution to be made to the ADS holder.

The fees and charges ADS holders may be required to pay may vary overtime and may be changed by us and by the depositary. ADS holders will receive prior notice of such changes.

Payments by Depositary

In 2023, we received US\$0.4 million net payments (after deducting the 30% U.S. withholding tax) from JPMorgan Chase Bank, N.A., the Depositary Bank for our ADR program. The payments were intended to cover certain of our expenses incurred in relation to the ADR program for the year, including:

- investor relations efforts;
- legal fees, NYSE listing fees, proxy process expenses, and SEC filing fees;
- Sarbanes-Oxley and accounting related expenses in connection with ongoing SEC compliance and listing requirements; and
- other ADR program-related expenses.

PART II

ITEM 13. DEFAULTS, DIVIDEND ARREARAGES AND DELINQUENCIES

None.

ITEM 14. MATERIAL MODIFICATIONS TO THE RIGHTS OF SECURITY HOLDERS AND USE OF PROCEEDS

None.

ITEM 15. CONTROLS AND PROCEDURES

Disclosure Controls and Procedures

As of the end of the period covered by this annual report, an evaluation has been carried out under the supervision and with the participation of our management, including our chief executive officer and our chief financial officer, of the effectiveness of the design and operation of our disclosure controls and procedures, as such term is defined under Rules 13a-14(c) and 15d-14(c) promulgated under the Securities Exchange Act of 1934, as amended. Based on that evaluation, our chief executive officer and chief financial officer have concluded that our disclosure controls and procedures are effective in ensuring that material information required to be disclosed in this annual report is recorded, processed, summarized and reported to them for assessment, and required disclosure is made within the time period specified in the rules and forms of the SEC.

Management's Annual Report on Internal Control Over Financial Reporting

Our management is responsible for establishing and maintaining adequate internal control over financial reporting, as such term is defined in Rule 13a-15(f) under the Securities Exchange Act of 1934, as amended, for our company. Internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of consolidated financial statements in accordance with International Financial Reporting Standards as issued by the International Accounting Standards Board (IASB), or IFRSs, and includes those policies and procedures that (i) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of a company's assets, (ii) provide reasonable assurance that transactions are recorded as necessary to permit preparation of consolidated financial statements in accordance with IFRSs, and that a company's receipts and expenditures are being made only in accordance with authorizations of a company's management and directors, and (iii) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of a company's assets that could have a material effect on the consolidated financial statements.

Because of its inherent limitations, a system of internal control over financial reporting can provide only reasonable assurance with respect to consolidated financial statement preparation and presentation and may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

As required by Section 404 of the Sarbanes-Oxley Act of 2002 and related rules as promulgated by the SEC, management assessed the effectiveness of our internal control over financial reporting as of December 31, 2023 using criteria established in Internal Control-Integrated Framework (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission.

Based on this assessment, management concluded that our internal control over financial reporting was effective as of December 31, 2023 based on the criteria established in Internal Control-Integrated Framework (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission.

Deloitte & Touche, an independent registered public accounting firm who has also audited our consolidated financial statements as of and for the year ended December 31, 2023, has issued an attestation report on the effectiveness of our internal control over financial reporting in accordance with the standards of the Public Company Accounting Oversight Board (United States).

Attestation Report of the Registered Public Accounting Firm

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the Stockholders and the Board of Directors of Chunghwa Telecom Co., Ltd.

Opinion on Internal Control over Financial Reporting

We have audited the internal control over financial reporting of Chunghwa Telecom Co., Ltd. and subsidiaries (the "Company") as of December 31, 2023, based on criteria established in Internal Control — Integrated Framework (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO). In our opinion, the Company maintained, in all material respects, effective internal control over financial reporting as of December 31, 2023, based on criteria established in Internal Control — Integrated Framework (2013) issued by COSO.

We have also audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) (PCAOB), the consolidated financial statements as of and for the year ended December 31, 2023, of the Company and our report dated April 17, 2024, expressed an unqualified opinion on those consolidated financial statements.

Basis for Opinion

The Company's management is responsible for maintaining effective internal control over financial reporting and for its assessment of the effectiveness of internal control over financial reporting, included in the accompanying "Management's Annual Report on Internal Control over Financial Reporting." Our responsibility is to express an opinion on the Company's internal control over financial reporting based on our audit. We are a public accounting firm registered with the PCAOB and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audit in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether effective internal control over financial reporting was maintained in all material respects. Our audit included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, testing and evaluating the design and operating effectiveness of internal control based on the assessed risk, and performing such other procedures as we considered necessary in the circumstances. We believe that our audit provides a reasonable basis for our opinion.

Definition and Limitations of Internal Control over Financial Reporting

A company's internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of consolidated financial statements for external purposes in accordance with generally accepted accounting principles. A company's internal control over financial reporting includes those policies and procedures that (1) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (2) provide reasonable assurance that transactions are recorded as necessary to permit preparation of consolidated financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the company are being made only in accordance with authorizations of management and directors of the company; and (3) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of the company's assets that could have a material effect on the consolidated financial statements.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

/s/ DELOITTE & TOUCHE

Deloitte & Touche Taipei, Taiwan Republic of China

April 17, 2024

Changes in Internal Control Over Financial Reporting

There were no changes in our internal control over financial reporting that occurred during the year ended December 31, 2023 that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.

ITEM 16. [Reserved]

ITEM 16A. AUDIT COMMITTEE FINANCIAL EXPERT

Su-ming Lin and Chia-Chung Chen are our audit committee financial experts and independent directors. See "Item 6. Directors, Senior Management and Employees —C. Board Practices."

The SEC has indicated that the designation of Mr. Lin and Mr. Chen as the audit committee financial experts does not: (i) make Mr. Lin and Mr. Chen the "experts" for any purpose, including without limitation for purposes of Section 11 of the Securities Act of 1933, as amended, as a result of this designation; (ii) impose any duties, obligations or liability on Mr. Lin and Mr. Chen that are greater than those imposed on them as members of the audit committee and the board of directors in the absence of such designation; or (iii) affect the duties, obligations or liability of any other member of the audit committee or the board of directors.

ITEM 16B. CODE OF ETHICS

We have adopted a Code of Ethics and Ethical Corporate Management Best Practice Principles that apply to our directors, managers, employees, and mandataries, including our chief executive officer and chief financial officer. We have posted copies of our Code of Ethics and Ethical Corporate Management Best Practice Principles on our website at https://www.cht.com.tw/en/home/cht/about-cht/corporate-governance/other-bylaws.

ITEM 16C. PRINCIPAL ACCOUNTANT FEES AND SERVICES

The following table sets forth the aggregate fees by categories specified below in connection with certain professional services rendered by Deloitte & Touche (PCAOB ID No. 1060), our principal accountant for the years indicated. We did not pay any other fees to Deloitte & Touche during the periods indicated below.

	Yea	Year Ended December 31				
	2022	2023	3			
	NT\$	NT\$	US\$			
		(in millions)				
Audit fees ⁽¹⁾	41.1	59.1	1.9			
Audit-related fees ⁽²⁾		_	_			
Tax fees ⁽³⁾	_	_				
All other fees ⁽⁴⁾	9.0	2.9	0.1			

^{(1) &}quot;Audit fees" means the aggregate fees billed in each of the fiscal years listed for professional services rendered by our principal accountant for the audit of our annual consolidated financial statements or services that are normally provided by the auditors in connection with statutory and regulatory filings or engagements.

All audit and non-audit services provided by Deloitte & Touche were pre-approved by our audit committee according to the revised Rule 201(c)(7) of Regulation S-X, entitled "Audit Committee Administration of the Engagement," that served to strengthen requirements regarding auditor independence.

ITEM 16D. EXEMPTIONS FROM THE LISTING STANDARDS FOR AUDIT COMMITTEES

None.

^{(2) &}quot;Audit-related fees" means the aggregate fees billed in each of the fiscal years listed for assurance and related services by our principal accountant that are reasonably related to the performance of the audit or review of our consolidated financial statements and are not reported under "Audit fees." Services comprising the fees disclosed under the category of "Audit-related fees" involve principally the issuance of agreed-upon procedures letters.

^{(3) &}quot;Tax fees" means the aggregate fees billed in each of the fiscal years listed for professional services rendered by our principal accountant for tax compliance, tax advice and tax planning. Services comprising the fees disclosed under the category of "Tax Fees" involve tax advice.

^{(4) &}quot;All other fees" means the aggregate fees billed in each of the last two fiscal years for products and services provided by our principal accountant other than the services reported in items (1) to (3) above.

ITEM 16E. PURCHASES OF EQUITY SECURITIES BY THE ISSUER AND AFFILIATED PURCHASERS

Not applicable.

ITEM 16F. CHANGE IN REGISTRANT'S CERTIFYING ACCOUNTANT

On December 22, 2023, we announced the dismissal of Deloitte & Touche as our independent registered public accounting firm, effective upon the completion of its audit work for the financial statements of the company for the fiscal year ended December 31, 2023, and the appointment of PricewaterhouseCoopers Taiwan as our independent registered public accounting firm, effective from the audit work for the first quarter of 2024. The decision to change the company's independent registered public accounting firm was approved by the audit committee and the board of directors.

The report of Deloitte & Touche on the financial statements of the company for the fiscal years ended December 31, 2023 and 2022 did not contain an adverse opinion or disclaimer of opinion and were not qualified or modified as to uncertainty, audit scope or accounting principles.

During the two fiscal years ended December 31, 2023 and 2022, (a) there were no disagreements as defined in Item 16F(a)(1)(iv) of Form 20-F with Deloitte & Touche on any matter of accounting principles or practices, financial statement disclosure, or auditing scope or procedure, which disagreements, if not resolved to the satisfaction of Deloitte & Touche, would have caused it to make reference thereto in its reports on the financial statements for such years and (b) there were no reportable events as defined in Item 16F(a)(1)(v) of Form 20-F during the most recent fiscal years or in the subsequent interim period.

The company provided Deloitte & Touche with a copy of the above disclosure and requested that Deloitte & Touche furnish the company with a letter addressed to the U.S. Securities and Exchange Commission stating whether or not it agrees with the above statements. A copy of the Deloitte & Touche's letter is attached as Exhibit 15.1 to this Form 20-F.

During each of the fiscal years ended December 31, 2023 and 2022 and the subsequent interim period prior to our engagement of PricewaterhouseCoopers Taiwan, neither the company, nor anyone on our behalf, has consulted PricewaterhouseCoopers Taiwan regarding either (i) the application of accounting principles to a specified transaction, either completed or proposed; or the type of audit opinion that might be rendered on the company's financial statements, and either a written report was provided to the company or was oral advice provided that PricewaterhouseCoopers Taiwan concluded was an important factor considered by the company in reaching a decision as to the accounting, auditing or financial reporting issue; or (ii) any matter that was either the subject of a disagreement, as that term is defined in Item 16F(a)(1)(iv) and the related instructions to Item 16F of Form 20-F, or a reportable event, as that term is defined in Item 16F(a)(1)(v) of Form 20-F.

ITEM 16G. CORPORATE GOVERNANCE

As a ROC company listed on the NYSE, we are subject to the U.S. corporate governance rules to the extent that these rules are applicable to foreign private issuers. The following summary details the significant differences between our corporate governance practices and corporate governance standards for non-foreign private issuers (e.g., U.S. companies) under the NYSE Listed Company Manual.

Under Section 303A of the NYSE Listed Company Manual, NYSE-listed foreign private issuers may, in general, follow their home country corporate governance practices in lieu of most of the new NYSE corporate governance requirements. However, all NYSE-listed foreign private issuers must comply with Sections 303A.06, 303A.11, 303A.12(b), 303A.12(c) and 303A.14 of the NYSE Listed Company Manual.

The Legal Framework. In general, corporate governance principles for Taiwanese companies are set forth in the ROC Company Act, the ROC Securities Exchange Act, regulations promulgated by the Securities and Futures Bureau of the FSC and, to the extent they are listed on the TWSE, listing rules of the TWSE. Corporate governance

principles under provisions of ROC law may differ in significant ways to corporate governance standards for non-foreign private issuers listed on the NYSE. Committed to high standards of corporate governance, we have generally brought our corporate governance in line with U.S. regulations. However, we have not adopted certain recommended NYSE corporate governance standards where such standards are not in conformity with ROC laws or regulations or generally prevailing business practices in Taiwan. We believe the following to be the significant differences between our corporate governance practices and NYSE corporate governance rules applicable to non-foreign private issuers listed on the NYSE.

Director Independence. The NYSE corporate governance rules applicable to non-foreign private issuers listed on the NYSE require companies to have a majority of independent directors on the board of directors. The ROC Securities Exchange Act requires the independent directors of a public company to comprise of no less than two persons and one-fifth of the total number of directors. We currently have five independent directors on our thirteen-member board of directors. We follow the standards regulated under the ROC Securities Exchange Act and by the FSC for determining director independence, which are comparable to the standards imposed by the NYSE.

In addition, under the ROC requirements, our board of directors is not required to make a formal determination of a director's independence. Nevertheless, we believe that our independent directors are free from any business or other relationships that would impair the exercise of their independent judgment. Furthermore, pursuant to the NYSE Listed Company Manual, non-executive directors must meet on a regular basis without the management directors present. All of our directors attend our board of directors' meetings; however, no separate meeting is held among non-executive directors.

Audit Committee. On April 1, 2003, the SEC adopted final rules relating to the audit committee requirements. Foreign private issuers listed on the NYSE were required to comply with the related NYSE corporate governance rules by July 31, 2005. Our audit committee was established in September 2004 in accordance with the rules set forth in the NYSE Listed Company Manual. According to the NYSE corporate governance rules applicable to non-foreign private issuers listed on the NYSE, the board must review the status of any audit member that serves on more than three audit committees. There is no such requirement under the ROC law, which allows a person to serve as an independent director on up to four public companies in the ROC.

Section 303A.07 of the NYSE Listed Company Manual requires issuers to have at least three directors on the audit committee that meets the definition of independence set forth under Rule 10A-3 of the Exchange Act and Section 303A of the NYSE Listed Company Manual. There is no such requirement under the ROC law, which requires all independent directors of a public company to be members of the audit committee if the company has established such a committee.

On December 19, 2018, the FSC announced that, effective from January 1, 2020, all companies listed on TWSE/Taipei Exchange should establish an audit committee to replace supervisors. Our new audit committee started from the date of the annual general meeting on June 25, 2013, and is maintained as of the date of this annual report. See "Item 6. Directors, Senior Management and Employees—C. Board Practices." We now simultaneously comply with the relevant rules of the NYSE Listed Company Manual and the relevant rules and regulations in the ROC.

Nominating/Corporate Governance Committee and Corporate Governance Principles. The NYSE corporate governance rules applicable to non-foreign private issuers listed on the NYSE require companies to have a nominating/corporate governance committee, composed entirely of independent directors. In addition to identifying individuals qualified to become board members, the nominating/corporate governance committee must develop and recommend to the board a set of corporate governance principles. The ROC Company Act does not require companies incorporated in the ROC to have a nominating/corporate governance committee. We do not currently have a nominating committee or a corporate governance committee; however, we do have formulated our company's Code of Corporate Governance to follow.

Currently, our board of directors performs the duties of a corporate governance committee and regularly reviews our corporate governance principles and practices. The ROC Company Act requires that directors shall be elected by stockholders. Our Articles of Incorporation requires us, beginning in the fifth commencement, to establish at least three independent directors in the number of directors. The elections for directors shall proceed

with the candidate nomination mechanism; the stockholders shall elect the directors from among the nominees listed in the roster of director candidates. Stockholders holding 1% or more of our outstanding shares are entitled to nominate candidates of directors in writing to us. The numbers of candidates nominated by stockholders shall not exceed the numbers of directors to be elected; neither the numbers of candidates nominated by the Board. Elections for independent and non-independent directors shall proceed concurrently, and the number of elected independent and non-independent directors shall be calculated separately.

Non-foreign private issuers listed on the NYSE are also required to adopt and disclose corporate governance guidelines. We currently comply with the ROC Non-Binding Corporate Governance Best Practice Principles for TWSE/Taipei Exchange Listed Companies promulgated by the TWSE, or Best Practice Principles, and we explain differences between our practice and the principles, if any, in our ROC annual report.

Compensation Committee. The NYSE corporate governance rules applicable to non-foreign private issuers listed on the NYSE require companies to have a compensation committee, composed entirely of independent directors. Article 14-6 of the ROC Securities and Exchange Act requires all listed companies to establish a compensation committee for directors, supervisors and managers' compensation, which includes salary, stock options and other rewards, as well as authorizes the Competent Authority (i.e., FSC) to enact a regulation on the authorities of the compensation committee and the qualifications of its members. See "Item 6. Directors, Senior Management and Employees—C. Board Practices" for description of our compliance.

Code of Business Conduct and Ethics. The NYSE corporate governance rules applicable to non-foreign private issuers listed on the NYSE require companies must adopt a code of business conduct and ethics for directors, officers and employees and promptly disclose any waivers of the code for directors or executive officers. We have adopted the Code of Ethics which applies to our directors, managers and employees, and the Ethical Corporate Management Best Practice Principles that applies to our directors, managers, employees and persons having substantial control over us. We have filed the Code of Ethics and the Ethical Corporate Management Best Practice Principles as exhibits to our annual report filed with the U.S. SEC and a copy is available to any stockholder upon request.

Equity Compensation Plans. The NYSE corporate governance rules applicable to non-foreign private issuers listed on the NYSE require that equity compensation plans be approved by a company's stockholders. Under the ROC Company Act and the ROC Securities and Exchange Act, the distribution of compensation to employees should be decided by the board of directors and reported in stockholders' meeting. The approval of stockholders' meeting is required for any issuances of restricted stock to employees, and the board of director has authority to approve employee stock option plans and to grant options to employees pursuant to such plans, subject to the approval of the FSC, and to approve share buy-back programs and transfer of shares to employees under such programs. We intend to follow only the ROC requirements.

Means to Communicate with Non-Management Directors. The NYSE corporate governance rules applicable to non-foreign private issuers listed on the NYSE require companies to establish a means for stockholders, employees and other interested parties to communicate with non-management directors. The ROC law does not have comparable requirements. However, according to the Best Practice Principles, companies are required to establish channels of communication with employees and encourage employees to communicate directly with the management or directors so as to reflect employees' opinions about the management, financial conditions and material decisions of the company concerning employee welfare. We have complied with these provisions.

Internal Audit Function. The NYSE corporate governance rules applicable to non-foreign private issuers listed on the NYSE require companies to establish an internal audit function to provide management and the audit committee with assessments of the company's risk management processes and system of internal control. We have complied with the Best-Practice Principles by setting up an internal control/audit system in accordance with the ROC Regulations Governing Establishment of Internal Control Systems by Public Companies.

CEO Certification to the NYSE. The NYSE listing standards require the CEO of companies to certify compliance with NYSE corporate governance standards annually. ROC law does not contain such requirement. In this regard, we only follow the ROC corporate governance requirement which does not require CEO annual certification. However, our CEO and CFO are required to certify in the 20-F annual report that, to his or her

knowledge the information contained therein fairly represents in all material respects the financial condition and results of operations of our company.

ITEM 16H. MINE SAFETY DISCLOSURE

Not applicable.

ITEM 16I. DISCLOSURE REGARDING FOREIGN JURISDICTIONS THAT PREVENT INSPECTION

Not applicable.

ITEM 16J. INSIDER TRADING POLICIES

Not applicable.

ITEM 16K. CYBERSECURITY

Risk Management and Strategy

In order to ensure full security of our critical infrastructure and critical information infrastructure, we referenced Cybersecurity Framework, or CSF, of the National Institute of Standards and Technology in the U.S., as well as domestic and international standards and regulations, including the Administration Regulations of Cyber Security on Telecommunications Business, Cyber Security Management Act, Personal Data Protection Act, General Data Protection Regulation, or GDPR, BS 10012, ISO 27001, ISO 27011, ISO 27701, to establish our Cyber Security and Privacy Protection Risk Management Framework. Set forth below are measures that we undertake to manage cybersecurity risks.

Internal Policies

In order to prevent cybersecurity incidents, we have adopted a "Cybersecurity Policy" approved by the Chairman as well as the following measures:

- identification: regulatory compliance, cybersecurity policy and procedures, cybersecurity roles and responsibilities, asset management, risk management strategy and assessment, supply chain management;
- protection: critical infrastructure security, network and system security, software/application development security, access control security, end-point security, operation and management security, data security, personal information security;
- detection: vulnerability analysis and patch management, multi-layer protection, intelligent Security Operation Center, or SOC and multi-vector detection;
- response: incident report and response, anomaly analysis, forensics and decision-making, recovery and improvement plan, cybersecurity intelligence sharing and joint defense enhancement; and
- improvement: awareness training, cybersecurity and personal data incident drills, internal and external audits, third-party certification, performance evaluation and continual improvement.

Through intelligent and automated cybersecurity governance mechanisms, the detection of cybersecurity threats and violation risks, while regularly conducting red team security assessments that include cybersecurity health diagnosis, we have fully integrated cybersecurity management into our daily operations, including employees, facilities, network, systems, applications and supply chain, the details measures implemented in these areas are described below:

• employee security training: regularly hold cybersecurity training sessions and classes, encourage employees to obtain international cybersecurity certifications, promote employee awareness and professional capacities for cybersecurity and privacy protection, and regularly hold Social Engineering exercises to improve employee alertness to Advanced Persistent Threat, or APT, attacks.

- facilities security: implement physical isolation, individualized gates, 24-hour intrusion alarms and video monitoring systems, and implement access control systems and prohibit personnel with concerns that may damage national security from causing machine room breach.
- network security: deploy multi-layered, in-depth security protection and detection mechanisms, and establish Demilitarized Zone, or DMZ, to control network access.
- system and application security: develop software based on Secure Software Development Life Cycle, or SSDLC, systems pass the security assessment before launch or updates, applications receive Mobile Application Basic Security, or MAS, certification marks from the Ministry of Economic Affairs, regularly scan for vulnerabilities and patch within time limit, establish software lists, understand the risk of software vulnerabilities and respond immediately through critical vulnerability early warnings, notifications and patching mechanisms, and all developers are required to pass security coding training and tests.

Engagement of Service Providers

We have engaged CHT Security Co, Ltd., an industry expert in cybersecurity protection, to perform in-depth cybersecurity health diagnoses to ensure the safety of our information system. CHT Security Co, Ltd.'s Digital Forensic and Cybersecurity Analysis Center is ISO 17025 certified. Moreover, its Red Team Security Assessment is the only ISO 20000 certificated team in Taiwan that has discovered more than 50 Common Vulnerabilities and Exposures on software, website and IoT equipment. The Red Team is also the only cybersecurity service provider in Taiwan to be awarded the highest 5A rating for cybersecurity services by the Executive Yuan for five consecutive years.

We have adopted third-party security assessment procedures and data access control procedures to manage risks from cybersecurity threats associated with our use of third-party service providers. We perform security assessments on third parties that provide information and communication services to us by assessing their basic data security capabilities, information security compliance and application security vulnerabilities. In-data transmission processing and data security is ensured through access control in line with ISO 27001 standard and security measures such as transmission encryption.

We have included standardized cybersecurity complement provisions and personal data protection complement provisions in our procurement contracts with third-party suppliers to stipulate the cybersecurity responsibilities of such third parties, remediation measures to be taken in the event of cybersecurity risks, and damages upon the occurrence of cybersecurity incidents. We also conduct contract-based monitoring or on-site audits to ensure compliance with our cybersecurity policy and laws and regulations.

Cybersecurity Governance Structure

Board of Directors

Our board of directors is responsible for and engaged in the oversight of our continuous efforts in monitoring, assessing and managing the risks associated with cybersecurity threats or incidents. Our President regularly reports to the board of directors on the company's cybersecurity and privacy protection governance. The board reviews reports from management on material cybersecurity risks and incidents and discusses risk treatment plans with the management. At board meetings, the board also hears period reports from the management on cybersecurity risk management and governance and has follow-up discussions with the management.

Policy Review and Approval

All cybersecurity-related internal policies shall be reviewed and approved by the management personnel in charge of the proposing departments as well as the President prior to adoption.

Our management makes assessments of cybersecurity risks and incidents and reports the nature, origin and potential impact of cybersecurity risks and incidents to the board of directors based on an assessment of materiality so that the board can learn about material cybersecurity risks and incidents on a timely basis and make decisions accordingly. In addition, to keep the board regularly informed about cybersecurity matters, the management makes periodic reports to the board on cybersecurity risk management and governance at board meetings, has live discussions with the board and addresses their questions.

Corporate Governance Committees

In August 2023, we established the risk management committee at our board level, comprised of directors with various areas of expertise, including ICT, legal, risk management, auditing and cybersecurity. The committee oversees the implementation of our risk management mechanism, including cybersecurity and privacy protection risk management, and provides necessary recommendations for improvement to our board of directors.

Under the supervision of the abovementioned risk management committee, we established the risk management steering committee, which tracks and manages risk control issues of cybersecurity and privacy protection on a monthly basis. When a risk level has reached a greater extent than risk appetite or risk tolerance level and an early warning is required, or where there is a major crisis, the convener of our risk management steering committee will report to our risk management committee in a timely fashion and, if necessary, report to our board of directors accordingly.

Furthermore, to ensure effective cybersecurity management, we also established the cybersecurity and privacy protection management committee with the Chairman representing the board of directors to supervise the implementation of our "Cybersecurity Policy." Meanwhile, the president has been appointed as the convener, and our Chief Information Security Officer, or CISO, is responsible for supervising our internal cybersecurity matters.

On November 8, 2023, the board of directors of our company approved the appointment of Mr. Rong-Shy Lin as our CISO, effective from January 1, 2024. Dr. Lin holds a Ph.D. in Information Engineering from National Chiao Tung University and has devoted over 34 years of service to our company. He possesses extensive practical experience in telecommunications, networks, cybersecurity, information, and risk management across various domains. Dr. Lin previously served as the inaugural head of our Cybersecurity Department, where he played a crucial role in formulating the company's cybersecurity strategy. He has been instrumental in our long-term initiatives such as training cybersecurity professionals within the company and leading independent research and development in cybersecurity technology. His contributions have laid a solid foundation for the company's cybersecurity governance. See "Item 6. Directors, Senior Management and Employees—A. Directors and Senior Management" for detailed experience of Dr. Lin.

In addition, we established CHT Security Operation Center, or SOC, in 2013 with abundant experiences in large-scale hacking and defense scenarios. The Cybersecurity Department, a department dedicated to ICT security management, was also set up in 2016 as the executive secretariat. The Cybersecurity Department includes executive secretary with responsibilities that range from reporting on cybersecurity management performance, reviewing and improving risk-related issues, reviewing the suitability of cybersecurity programs, privacy protection policies and regulations, and supervising and evaluating compliance and efficacy of strategies. Our senior management is actively involved in the discussion with and decision process of the Cybersecurity Department in order to (i) align regulations with technology advancement for new business development, (ii) coordinate the overall cybersecurity policy, (iii) enact and amend required security specifications, (iv) utilize equipment for centralized security monitor, (v) defense and mitigate enterprise security risks, (vi) accelerate new business development, and (vii) provide customers with a secure and reliable digital ecosystem. The Cybersecurity Department is composed of the cybersecurity working group and the privacy protection working group. The two working groups hold meetings regularly and report to the board of directors.

Since 2021, we have arranged and been covered by data protection insurance to prevent potential major financial losses from cybersecurity incidents and safeguard the rights of our customers and investors. In 2023, we had not been subject to any punishment due to cybersecurity, and there were no incidents of material risks arising from cybersecurity or personal data protection. For more information, please visit the websites at: https://www.cht.com.tw/en/home/cht/esg/customer-care/cybersecurity (cybersecurity); www.cht.com.tw/en/home/cht/esg/customer-care/privacy-protection/privacy-policy (privacy protection). The information contained on our website is not incorporated herein by reference and does not constitute part of this annual report.

PART III

ITEM 17. FINANCIAL STATEMENTS

The Registrant has elected to provide the consolidated financial statements and related information specified in Item 18 in lieu of Item 17.

ITEM 18. FINANCIAL STATEMENTS

The following is a list of the consolidated financial statements and report of independent registered public accounting firm included in this annual report beginning on page F-1.

ITEM 19. EXHIBITS

Exhibit Number	Description of Exhibits
1.1*	Articles of Incorporation of Chunghwa Telecom Co., Ltd. (English translation), as last amended by Annual General Meeting on May 26, 2023.
2.1	Form of Amended and Restated Deposit Agreement dated as of December 27, 2023 among Chunghwa Telecom Co. Ltd., JPMorgan Chase Bank, N.A., as depositary, and all holders from time to time of ADRs issued thereunder, including the Form of American Depositary Receipt (incorporated by reference to Exhibit (a)(2) to the Registrant's Registration Statement on Form F-6 (File No. 333-147321) filed with the Commission on December 27, 2023).
2.2*	Description of our securities registered pursuant to Section 12 of the Securities Exchange Act of 1934.
8.1*	List of Subsidiaries.
11.1	Code of Ethics (English translation) (incorporated by reference to Exhibit 11.1 to the Registrant's Annual Report on Form 20-F for the fiscal year ended December 31, 2022 (File No. 001-31731) filed with the Commission on April 17, 2023).
11.2	Ethical Corporate Management Best Practice Principles (English translation) (incorporated by reference to Exhibit 11.2 to the Registrant's Annual Report on Form 20-F for the fiscal year ended December 31, 2021 (File No. 001-31731) filed with the Commission on April 15, 2022).
12.1*	Certification of our Chief Executive Officer pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.
12.2*	Certification of our Chief Financial Officer pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.
13.1**	Certification of our Chief Executive Officer pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.
13.2**	Certification of our Chief Financial Officer pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.
15.1*	Letter of Deloitte & Touche.
97*	Incentive Compensation Clawback Policy of Chunghwa Telecom Co., Ltd.
101.INS*	Inline XBRL Instance Document - the instance document does not appear in the Interactive Data File as its XBRL tags are embedded within the Inline XBRL document.
101.SCH*	Inline XBRL Taxonomy Extension Schema With Embedded Linkbase Documents.
104*	Cover page formatted as Inline XBRL and contained in Exhibit 101.

^{*} Filed herewith.

^{**} Furnished herewith.

SIGNATURES

The registrant hereby certifies that it meets all of the requirements for filing on Form 20-F and that it has duly caused and authorized the undersigned to sign this annual report on its behalf.

CHUNGHWA TELECOM CO., LTD.

By: /s/ SHUI-YI KUO

Name: Shui-Yi Kuo

Title: Chairman and Chief Executive Officer

Date: April 17, 2024

INDEX TO THE CONSOLIDATED FINANCIAL STATEMENTS

	Page
Report of Independent Registered Public Accounting Firm	F-1
Consolidated Balance Sheets as of December 31, 2022 and 2023	F-3
Consolidated Statements of Comprehensive Income for the years ended December 31, 2021, 2022 and 2023	F-5
Consolidated Statements of Changes in Equity for the years ended December 31, 2021, 2022 and 2023	F-7
Consolidated Statements of Cash Flows for the years ended December 31, 2021, 2022 and 2023	F-8
Notes to Consolidated Financial Statements	F-11

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the Stockholders and the Board of Directors of Chunghwa Telecom Co., Ltd.

Opinion on the Consolidated Financial Statements

We have audited the accompanying consolidated balance sheets of Chunghwa Telecom Co., Ltd. and subsidiaries (the "Company") as of December 31, 2022 and 2023, the related consolidated statements of comprehensive income, changes in equity, and cash flows for each of the three years in the period ended December 31, 2023, and the related notes (collectively referred to as the "consolidated financial statements"). In our opinion, the consolidated financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2022 and 2023, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2023, in conformity with International Financial Reporting Standards as issued by the International Accounting Standards Board.

Our audits also comprehended the translation of New Taiwan dollar amounts into U.S. dollar amounts and, in our opinion, such translation has been made in conformity with the basis stated in Note 6 to the consolidated financial statements. Such U.S. dollar amounts are presented solely for the convenience of readers outside the Republic of China.

We have also audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) (PCAOB), the Company's internal control over financial reporting as of December 31, 2023, based on criteria established in Internal Control - Integrated Framework (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission and our report dated April 17, 2024, expressed an unqualified opinion on the Company's internal control over financial reporting.

Basis for Opinion

These consolidated financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's consolidated financial statements based on our audits. We are a public accounting firm registered with the PCAOB and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the consolidated financial statements are free of material misstatement, whether due to error or fraud. Our audits included performing procedures to assess the risks of material misstatement of the consolidated financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the consolidated financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the consolidated financial statements. We believe that our audits provide a reasonable basis for our opinion.

Critical Audit Matter

The critical audit matter communicated below is a matter arising from the current-period audit of the consolidated financial statements that was communicated or required to be communicated to the audit committee and that (1) relates to accounts or disclosures that are material to the consolidated financial statements and (2) involved our especially challenging, subjective, or complex judgments. The communication of critical audit matters does not alter in any way our opinion on the consolidated financial statements, taken as a whole, and we are not, by communicating the critical audit matter below, providing a separate opinion on the critical audit matter or on the accounts or disclosures to which it relates.

Revenue Recognition on Mobile Service - Refer to Notes 3 and 42 to the consolidated financial statements

Critical Audit Matter Description

The Company's mobile service revenue consists of subscriber-based charges made up of a significant volume of low-dollar transactions. Because of the complexity and a variety of subscriber-based charges as well as a large number of transactions, the Company uses highly automated systems to process and record its revenue transactions.

Given the Company's systems to process and record revenue are highly automated, auditing revenue was complex and challenging due to the extent of audit effort required and involvement of professionals with expertise in information technology (IT) necessary for us to identify, test, and evaluate the Company's IT systems.

How the Critical Audit Matter Was Addressed in the Audit

Our audit procedures related to the Company's systems to process revenue transactions included the following, among others:

- With the assistance of our IT specialists, we:
 - Identified the significant systems used to process revenue transactions and tested the general IT
 controls over each of these systems, including testing of user access controls and change management
 controls.
 - Performed testing of system interface controls and automated controls within the relevant revenue streams, as well as the controls designed to ensure the accuracy and completeness of revenue.
- We tested manual controls within the relevant revenue business processes, including those in place to reconcile the various systems to the Company's accounting system.
- We selected samples from mobile service revenue and agreed to customer contracts and records of cash receipts.

/s/ DELOITTE & TOUCHE

Deloitte & Touche Taipei, Taiwan Republic of China

April 17, 2024

We have served as the Company's auditor since 1998.

CHUNGHWA TELECOM CO., LTD. AND SUBSIDIARIES

CONSOLIDATED BALANCE SHEETS

December 31, 2022 and 2023

(In Millions of New Taiwan or U.S. Dollars)

·		2022	2023		
ASSETS				US\$	
	Notes	NT\$	NT\$	(Note 6)	
CURRENT ASSETS					
Cash and cash equivalents	3, 7, 39	\$ 50,193	\$ 33,824	\$ 1,105	
Financial assets at fair value through					
profit or loss	3, 4, 8	4	1	_	
Hedging financial assets	3, 21	13	_	_	
Contract assets	3, 30	6,056	6,713	219	
Trade notes and accounts receivable, net	3, 4, 10, 30	24,672	24,842	811	
Receivables from related parties	39	75	78	3	
Inventories	3, 4, 11	11,316	11,521	376	
Prepayments	12	2,398	2,840	93	
Other current monetary assets	13, 28, 35, 39	3,619	20,352	665	
Incremental costs of obtaining contracts	3, 30	_	211	7	
Other current assets	19, 20, 32, 40	3,555	2,822	92	
Total current assets		101,901	103,204	3,371	
NONCURRENT ASSETS					
Financial assets at fair value through					
profit or loss	3, 4, 8	1,020	1,036	34	
Financial assets at fair value through other					
comprehensive income	3, 4, 9, 35	3,491	4,412	144	
Investments accounted for using equity method	3, 15, 35	6,949	8,252	269	
Contract assets	3, 30	3,137	3,769	123	
Property, plant and equipment	3, 4, 16, 35, 39, 40	291,528	292,338	9,547	
Right-of-use assets	3, 4, 17, 39	11,103	11,238	367	
Investment properties	3, 4, 18, 39	9,804	9,805	320	
Intangible assets	3, 4, 19, 39	79,187	72,727	2,375	
Deferred income tax assets	3, 32	2,197	2,099	69	
Incremental costs of obtaining a contract	3, 30	980	939	31	
Net defined benefit assets	3, 4, 28	5,266	5,963	195	
Prepayments	12, 41	1,728	3,330	109	
Other noncurrent assets	20, 40, 41	4,705	4,629	151	
Total noncurrent assets		421,095	420,537	13,734	
TOTAL		\$ 522,996	\$ 523,741	\$ 17,105	

		2022	(Continued) 2023		
				US\$ (Note	
LIABILITIES AND EQUITY	Notes	NT\$	NT\$	6)	
CURRENT LIABILITIES					
Short-term loans	22	\$ 722	\$ 585	\$ 19	
Hedging financial liabilities	3, 21	_	_	_	
Contract liabilities	3, 30, 39	13,390	14,088	460	
Trade notes and accounts payable	25	16,429	14,396	470	
Payables to related parties	39	539	385	13	
Current tax liabilities	3, 32	6,999	6,613	216	
Lease liabilities	3, 4, 17, 35, 39	3,339	3,505	115	
Other payables	26, 35	25,080	25,257	825	
Provisions	3, 27	226	337	11	
Current portion of long-term loans	22, 40	_	1,600	52	
Other current liabilities		1,016	984	32	
Total current liabilities		67,740	67,750	2,213	
NONCURRENT LIABILITIES					
Long-term loans	23, 40	1,600	_	_	
Bonds payable	24	30,477	30,483	996	
Contract liabilities	3, 30	7,674	7,560	247	
Deferred income tax liabilities	3, 32	2,301	2,461	80	
Provisions	3, 27	173	485	16	
Lease liabilities	3, 4, 17, 35, 39	7,334	7,470	244	
Customers' deposits	39	5,157	5,309	173	
Net defined benefit liabilities	3, 4, 28	2,285	2,098	69	
Other noncurrent liabilities		6,726	7,406	241	
Total noncurrent liabilities		63,727	63,272	2,066	
Total liabilities		131,467	131,022	4,279	
EQUITY ATTRIBUTABLE TO					
STOCKHOLDERS					
OF THE PARENT					
Common stocks		77,574	77,574	2,533	
Additional paid-in capital		149,844	149,828	4,893	
Retained earnings					
Legal reserve		77,574	77,574	2,533	
Special reserve		3,084	2,899	96	
Unappropriated earnings		71,268	72,059	2,353	
Total retained earnings		151,926	152,532	4,982	
Others		(223)	353	12	
Total equity attributable to stockholders					
of the parent	14, 29	379,121	380,287	12,420	
NONCONTROLLING INTERESTS	14, 29	12,408	12,432	406	
Total equity		391,529	392,719	12,826	
TOTAL		\$ 522,996	\$ 523,741	\$ 17,105	
		* 222,770	+ 525,711	<u> </u>	

(Concluded)

The accompanying notes are an integral part of the consolidated financial statements.

CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME YEARS ENDED DECEMBER 31, 2021, 2022 and 2023

(In Millions of New Taiwan or U.S. Dollars, Except Earnings Per Share That Are in New Taiwan or U.S. Dollars)

		2021	2022	2	023
	Notes	NT\$	NT\$	NT\$	US\$ (Note 6)
REVENUES	3, 30, 39, 42	\$ 210,478	\$ 216,739	\$ 223,199	\$ 7,289
OPERATING COSTS	3, 11, 28, 30,	, ,, ,,	, ,,,,,,	, ,,,,,	, , , ,
	31, 39	135,111	136,717	141,767	4,630
GROSS PROFIT	·	75,367	80,022	81,432	2,659
OPERATING EXPENSES					
Marketing		20,944	22,819	23,599	771
General and administrative		5,293	6,580	6,801	222
Research and development		3,688	3,774	3,892	127
Expected credit loss		143	117	152	5
Total operating expenses	3, 10, 28, 31, 39	30,068	33,290	34,444	1,125
OTHER INCOME AND EXPENSES	16, 17, 18, 19,				
	31, 42	(369)	93	(635)	(20)
INCOME FROM OPERATIONS	- ,	44,930	46,825	46,353	1,514
NON-OPERATING INCOME AND EXPENSES					
Interest income	39, 42	95	249	618	20
Other income	9, 31, 39	378	369	382	12
Other gains and losses	15, 31, 39	461	(418)	(279)	(9)
Interest expense	17, 31, 39, 42	(218)	(263)	(319)	(10)
Share of profits of associates and joint	, , ,	,	,	,	
ventures accounted for using equity					
method	15, 42	421	442	253	8
Total non-operating income and	·				
expenses		1,137	379	655	21
INCOME BEFORE INCOME TAX		46,067	47,204	47,008	1,535
INCOME TAX EXPENSE	3, 32	9,020	9,335	8,947	292
NET INCOME		37,047	37,869	38,061	1,243
TOTAL OTHER COMPREHENSIVE					
INCOME (LOSS)					
Items that will not be reclassified to					
profit or loss:					
Remeasurements of defined benefit					
pension plans	28	390	1,154	157	5
Unrealized gain or loss on investments					
in equity instruments at fair value					
through other comprehensive income	3, 29, 37	(1,186)	(137)	619	20
Gain or loss on hedging instruments					
subject to basis adjustment	3, 21	(10)	21	(13)	_
Share of other comprehensive income					
(loss) of associates and joint ventures	15	(4)	3	6	_
Income tax relating to items that will					
not be reclassified to profit or loss	32	(78)	(231)	(31)	(1)
		(888)	810	738	24

(Continued)

CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME YEARS ENDED DECEMBER 31, 2021, 2022 and 2023

(In Millions of New Taiwan or U.S. Dollars, Except Earnings Per Share That Are in New Taiwan or U.S. Dollars)

			2021		2022		2	023	
	Notes		NT\$		NT\$		NT\$	US	\$ (Note 6)
Items that may be reclassified subsequently to profit or loss:									
Exchange differences arising from the translation of the foreign									
operations		\$	(77)	\$	296	\$	(46)	\$	(1)
Share of other comprehensive income									
(loss) of associates and joint ventures	15		(1)		6		(23)		(1)
Income tax relating to items that may									
be reclassified subsequently	32			_		_			
			(78)	_	302	_	(69)		(2)
Total other comprehensive income									
(loss), net of income tax		_	(966)	_	1,112	_	669		22
TOTAL COMPREHENSIVE INCOME		\$	36,081	\$	38,981	\$	38,730	\$	1,265
NET INCOME ATTRIBUTABLE TO									
Stockholders of the parent		\$	35,616	\$	36,358	\$	36,958	\$	1,207
Noncontrolling interests			1,431		1,511		1,103		36
		\$	37,047	\$	37,869	\$	38,061	\$	1,243
COMPREHENSIVE INCOME ATTRIBUTABLE TO									
Stockholders of the parent		\$	34,652	\$	37,450	\$	37,658	\$	1,230
Noncontrolling interests			1,429		1,531		1,072		35
		\$	36,081	\$	38,981	\$	38,730	\$	1,265
EARNINGS PER SHARE	33	_		_		_			
Basic		\$	4.59	\$	4.69	\$	4.76	\$	0.16
Diluted		\$	4.59	\$	4.68	\$	4.76	\$	0.16
EARNINGS PER EQUIVALENT ADS									
Basic		\$	45.91	\$	46.87	\$	47.64	\$	1.56
Diluted		\$	45.86	\$	46.81	\$	47.58	\$	1.55

The accompanying notes are an integral part of the consolidated financial statements.

(Concluded)

CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY YEARS ENDED DECEMBER 31, 2021, 2022 and 2023 (In Millions of New Taiwan or U.S. Dollars)

						ibutable to Stockholders	s of the Parent						
	Common Stocks NTS	Additional Paid-in Capital NTS	Legal Reserve NTS	Special Reserve NT\$	Unappropriated Earnings NTS	Total Retained Earnings NTS	Exchange Differences Arising from the Translation of the Foreign Operations NTS	Others Unrealized Gain or Loss on Financial Assets at Fair Value through Other Comprehensive Income NTS	Gain or Loss on Hedging Instruments NTS	Total Others NTS	Total Equity Attributable to Stockholders of the Parent NTS	Noncontrolling Interests NTS	Total Equity NTS
BALANCE, JANUARY 1, 2021	\$ 77,574	\$ 149,790	\$ 77,574	\$ 2,676	\$ 67,574	\$ 147,824	\$ (315)	\$ 1,240	\$ 2	\$ 927	\$ 376,115	\$ 11,158	\$ 387,273
Appropriation of 2020 earnings	,,,,,,	,	,	_,,,,,		*,	(610)	-,	_	* / <u>-</u> /			· · · · · · · · · · · · · · · · · · ·
Cash dividends distributed by Chunghwa	_	_	_	_	(33,404)	(33,404)	_	_	_	_	(33,404)	_	(33,404)
Cash dividends distributed by subsidiaries	_	_	_	_	`	` _ `	_	_	_	_	_	(896)	(896)
Unclaimed dividend	_	2	_	_	_	_	_	_	_	_	2	· —	2
Change in additional paid-in capital from investments in associates and joint													
ventures accounted for using equity method	_	1	_	_	_	_	_	_	_	_	1	_	1
Net income for the year ended December 31, 2021	_	_	_	_	35,616	35,616	_	_	_	_	35,616	1,431	37,047
Other comprehensive income (loss) for the year ended December 31, 2021					311	311	(77)	(1,188)	(10)	(1,275)	(964)	(2)	(966)
Total comprehensive income (loss) for the year ended December 31, 2021					35,927	35,927	(77)	(1,188)	(10)	(1,275)	34,652	1,429	36,081
Disposal of investments in equity instruments at fair value through other comprehensive													
income	_	_	_	_	60	60	_	(60)	_	(60)	_	_	_
Share-based payment transactions of subsidiaries		17									17	56	73
BALANCE, DECEMBER 31, 2021 Appropriation of 2021 earnings	77,574	149,810	77,574	2,676	70,157	150,407	(392)	(8)	(8)	(408)	377,383	11,747	389,130
Special reserve	_	_	_	408	(408)	_	_	_	_	_	_	_	_
Cash dividends distributed by Chunghwa	_	_	_	_	(35,746)	(35,746)	_	_	_	_	(35,746)	_	(35,746)
Cash dividends distributed by subsidiaries	_	_	_	_		_	_	_	_	_	_	(1,053)	(1,053)
Unclaimed dividend	_	2	_	_	_	_	_	_	_	_	2	_	2
Change in additional paid-in capital for not													
proportionately participating in the capital increase of subsidiaries		5			_			_	_	_	5	10	15
Net income for the year ended December 31, 2022					36,358	36,358					36,358	1,511	37,869
Other comprehensive income (loss) for the					30,330	50,550					30,330	1,511	57,007
year ended December 31, 2022	_	_	_	_	907	907	281	(117)	21	185	1,092	20	1,112
Total comprehensive income (loss) for the year ended December 31, 2022					37,265	37,265	281	(117)	21	185	37,450	1,531	38,981
Disposal of investments in equity instruments at													
fair value through other comprehensive income	_	_	_	_	_	_	_	_	_	_	_	_	_
Share-based payment transactions of subsidiaries	_	27	_	_	_	_	_	_	_	_	27	62	89
Net increase in noncontrolling interests		140.044		2.004		151.026				(223)	270 121	111	111
BALANCE, DECEMBER 31, 2022 Appropriation of 2022 earnings	77,574	149,844	77,574	3,084	71,268	151,926	(111)	(125)	13	(225)	379,121	12,408	391,529
Special reserve	_	_	_	(185)	185	_			_	_	_		_
Cash dividends distributed by Chunghwa	=	_	_	(183)	(36,476)	(36,476)			_		(36,476)	_	(36,476)
Cash dividends distributed by subsidiaries	_	_	_	_	_	_	_	_	_	_	` _	(1,092)	(1,092)
Unclaimed dividend	_	2	_	_	_	_	_	_	_	_	2	` ' —'	2
Change in additional paid-in capital from investments in associates and joint ventures accounted for using equity													
method	_	(26)	_	_	_	_	_	_	_	_	(26)	_	(26)
Actual acquisition of interests in subsidiaries	_	<u>`</u> _'	_	_	_	_	_	_	_	_	_		_
Net income for the year ended December 31, 2023	_	_	_	_	36,958	36,958	_	_	_	_	36,958	1,103	38,061
Other comprehensive income (loss) for the year ended December 31, 2023		<u> </u>			124	124	(57)	646	(13)	576	700	(31)	669
Total comprehensive income (loss) for the year ended December 31, 2023					37,082	37,082	(57)	646	(13)	576	37,658	1,072	38,730
Share-based payment transactions of subsidiaries		8									8	25	33
Net increase in noncontrolling interests BALANCE, DECEMBER 31, 2023	<u> </u>	<u> </u>	<u> </u>	\$ 2,899	\$ 72,059	\$ 152,532	<u> </u>	<u> </u>	<u> </u>	\$ 353	\$ 380,287	\$ 12,432	\$ 392,719
BALANCE, DECEMBER 31, 2023												_ _	
(IN MILLIONS OF US\$ - Note 6)	\$ 2,533	\$ 4,893	\$ 2,533	\$ 96	\$ 2,353	\$ 4,982	\$ (5)	\$ 17	<u> </u>	\$ 12	\$ 12,420	\$ 406	\$ 12,826

The accompanying notes are an integral part of the consolidated financial statements.

CONSOLIDATED STATEMENTS OF CASH FLOWS YEARS ENDED DECEMBER 31, 2021, 2022 and 2023

(In Millions of New Taiwan or U.S. Dollars)

		2021		2022		20		
		NT¢		NT¢		NT¢	US	S\$ (Note
CASH FLOWS FROM OPERATING ACTIVITIES		NT\$		NT\$		NT\$		6)
Income before income tax	\$	46,067	\$	47,204	\$	47,008	\$	1,535
Adjustments for:	Ψ	10,007	Ψ.	.,,_0.	Ψ	.,,,,,,	Ψ	1,000
Depreciation		31,832		32,786		32,956		1,076
Amortization		6,569		6,643		6,699		219
Amortization of incremental costs of obtaining contracts		815		841		856		28
Expected credit loss		143		117		152		5
Interest expense		218		263		319		10
Interest income		(95)		(249)		(618)		(20)
Dividend income		(154)		(157)		(167)		(5)
Compensation cost of share-based payment transactions		19		16		8		
Share of profits of associates and joint ventures								
accounted for using equity method		(421)		(442)		(253)		(8)
Loss on disposal of property, plant and equipment		3		5		_		_
Gain on disposal of financial instruments		_		(1)		_		_
Loss (gain) on disposal of investments accounted for using								
equity method		(4)		14		(6)		_
Provision for impairment loss and obsolescence of								
inventory		207		34		23		1
Impairment loss on property, plant and equipment		_		_		299		10
Impairment loss on right-of-use assets		420		_		_		_
Impairment loss (reversal of impairment loss) on								
investment properties		(83)		(107)		336		10
Impairment loss on intangible assets		29		9		_		_
Valuation loss (gain) on financial assets and liabilities								
at fair value through profit or loss, net		(243)		206		98		3
Others		(133)		254		(60)		(2)
Changes in operating assets and liabilities:								
Decrease (increase) in:								
Contract assets		(336)		(1,031)		(1,291)		(42)
Trade notes and accounts receivable		(1,339)		(785)		(287)		(9)
Receivables from related parties		189		(34)		(3)		_
Inventories		875		(23)		(178)		(6)
Prepayments		392		2		(315)		(9)
Other current monetary assets		(386)		(165)		107		3
Other current assets		(630)		(576)		733		24
Incremental cost of obtaining contracts		(803)		(833)		(1,026)		(34)
Increase (decrease) in:		(1.650)		1 000		504		10
Contract liabilities		(1,652)		1,990		584		19
Trade notes and accounts payable		2,468		(1,631)		(2,033)		(66)
Payables to related parties		(255)		147		(154)		(5)
Other payables		248		782		562		18
Provisions		13		(28)		373		12
Other current liabilities		(12)		(724)		(14)		(24)
Net defined benefit plans		(756)		(724)		(728)		(24)
Cash generated from operations		83,205		84,587		83,980		2,743
Interests paid		(192)		(239)		(314)		(10)
Income taxes paid		(8,155)	_	(8,397)		(9,107)	_	(297)
Net cash provided by operating activities	_	74,858	_	75,951	_	74,559	_	2,436

(Continued)

CONSOLIDATED STATEMENTS OF CASH FLOWS YEARS ENDED DECEMBER 31, 2021, 2022 and 2023 (In Millions of New Taiwan or U.S. Dollars)

CASH FLOWS FROM INVESTING ACTIVITIES Acquisition of financial assets at fair value through other comprehensive income \$ (313) \$ (19) \$ (305) \$ (10) Proceeds from disposal of financial assets at fair value through other comprehensive income 2,912 — — — — — Proceeds from capital reduction of financial assets at fair value through other comprehensive income — 7 — — — Acquisition of financial assets at fair value through profit or loss — 4. Proceeds from disposal of financial assets at fair value through profit or loss — 25 — 15 — — — — — — — Proceeds from capital reduction and profit distribution of financial assets at fair value through profit or loss — — — — — — — — — — — — — — — — — —
Acquisition of financial assets at fair value through other comprehensive income Proceeds from disposal of financial assets at fair value through other comprehensive income Proceeds from capital reduction of financial assets at fair value through other comprehensive income Acquisition of financial assets at fair value through other comprehensive income Acquisition of financial assets at fair value through profit or loss Proceeds from disposal of financial assets at fair value through profit or loss Proceeds from capital reduction and profit distribution of financial assets at fair value through profit or loss Acquisition of time deposits, negotiable certificates of deposit and commercial paper with maturities of more than three months (17,369) (5,670) (45,239) (1,477) Proceeds from disposal of time deposits, negotiable certificates of deposit with maturities of more than three months (18,446) (300) (500) (100)
other comprehensive income \$ (313) \$ (19) \$ (305) \$ (10) Proceeds from disposal of financial assets at fair value through other comprehensive income 2,912 — — — — Proceeds from capital reduction of financial assets at fair value through other comprehensive income — 7 — — Acquisition of financial assets at fair value through profit or loss — 7 — — — Acquisition of financial assets at fair value through profit or loss — (44) — (360) — (133) — (4) Proceeds from disposal of financial assets at fair value through profit or loss — 25 — 15 — — — Proceeds from capital reduction and profit distribution of financial assets at fair value through profit or loss — 66 — 22 — 1 Acquisition of time deposits, negotiable certificates of deposit and commercial paper with maturities of more than three months — (17,369) — (5,670) — (45,239) — (1,477) Proceeds from disposal of time deposits, negotiable certificates of deposit with maturities of more than three months — 18,446 — 7,310 — 28,577 — 933 Acquisition of investments accounted for using equity method — (330) — (52) — (1,555) — (51) Proceeds from disposal of investments accounted for using equity method — 9 — — — —
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Proceeds from disposal of time deposits, negotiable certificates of deposit with maturities of more than three months 18,446 7,310 28,577 933 Acquisition of investments accounted for using equity method (330) (52) (1,555) (51) Proceeds from disposal of investments accounted for using equity method 9 — —
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three months 18,446 7,310 28,577 933 Acquisition of investments accounted for using equity method (330) (52) (1,555) (51) Proceeds from disposal of investments accounted for using equity method 9 — — —
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equity method (330) (52) (1,555) (51) Proceeds from disposal of investments accounted for using equity method 9 — — —
Proceeds from disposal of investments accounted for using equity method 9 — — —
for using equity method 9 — — —
Proceeds from capital reduction of investments
accounted for using equity method — 340 — —
Acquisition of property, plant and equipment (35,333) (31,535) (30,741) (1,004)
Proceeds from disposal of property, plant and
equipment 27 16 19 1
Acquisition of intangible assets (256) (1,893) (237) (8)
Acquisition of investment properties (1) (18) (54)
Decrease in other noncurrent assets 338 235 166 5
Increase in prepayments for leases — — (1,729) (57)
Interests received 95 219 568 19
Dividends received <u>622</u> <u>550</u> <u>467</u> <u>15</u>
Net cash used in investing activities

(Continued)

CONSOLIDATED STATEMENTS OF CASH FLOWS YEARS ENDED DECEMBER 31, 2021, 2022 and 2023 (In Millions of New Taiwan or U.S. Dollars)

	2021 2022		2022	202		23	
		NT\$		NT\$	NT\$	US	\$ (Note 6)
CASH FLOWS FROM FINANCING ACTIVITIES							
Proceeds from short-term loans	\$	154	\$	1,292	\$ 2,590	\$	85
Repayments of short-term loans		(156)		(635)	(2,727)		(89)
Proceeds from short-term bills payable		5,000			_		_
Repayments of short-term bills payable		(12,000)		_	_		_
Proceeds from issuance of bonds		7,000		3,500	_		_
Payments for transaction costs attributable to the							
issuance of bonds		(7)		(4)	_		_
Increase (decrease) in customers' deposits		477		(223)	134		4
Payments for the principal of lease liabilities		(3,729)		(3,777)	(3,884)		(127)
Increase in other noncurrent liabilities		3,191		1,644	680		22
Cash dividends paid		(33,404)		(35,746)	(36,476)		(1,191)
Acquisition of additional interests in subsidiaries				_			
Cash dividends distributed to noncontrolling interests		(896)		(1,053)	(1,092)		(35)
Change in other noncontrolling interests		54		200	43		1
Unclaimed dividend		2		2	2		_
Net cash used in financing activities		(34,314)		(34,800)	(40,730)		(1,330)
EFFECT OF EXCHANGE RATE CHANGES ON							
CASH AND CASH EQUIVALENTS		(13)		52	(24)		(1)
NET INCREASE (DECREASE) IN CASH AND CASH							
EQUIVALENTS		9,359		10,414	(16,369)		(534)
CASH AND CASH EQUIVALENTS, BEGINNING		Í		ŕ	, , ,		, ,
OF THE YEAR		30,420		39,779	50,193		1,639
CASH AND CASH EQUIVALENTS, END OF THE							
YEAR	\$	39,779	\$	50,193	\$ 33,824	\$	1,105
		<u> </u>	_	<u>′</u>	<u> </u>		<u> </u>

(Concluded)

The accompanying notes are an integral part of the consolidated financial statements.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (In Millions of New Taiwan Dollars, Unless Stated Otherwise)

1. GENERAL

Chunghwa Telecom Co., Ltd. ("Chunghwa"; Chunghwa together with its subsidiaries are hereinafter referred to collectively as the "Company".) was incorporated on July 1, 1996 in the Republic of China ("ROC"). Chunghwa is a company limited by shares and, prior to August 2000, was wholly owned by the Ministry of Transportation and Communications ("MOTC"). Prior to July 1, 1996, the current operations of Chunghwa were carried out under the Directorate General of Telecommunications ("DGT"). The DGT was established by the MOTC in June 1943 to take primary responsibility in the development of telecommunications infrastructure and to formulate policies related to telecommunications. On July 1, 1996, the telecom operations of the DGT were spun-off as Chunghwa which continues to carry out the business and the DGT continues to be the industry regulator.

Effective August 12, 2005, the MOTC completed the process of privatizing Chunghwa by reducing the government ownership to below 50% in various stages. In July 2000, Chunghwa received approval from the Securities and Futures Commission (the "SFC") for a domestic initial public offering and its common stocks were listed and traded on the Taiwan Stock Exchange (the "TWSE") on October 27, 2000. Certain of Chunghwa's common stocks were sold, in connection with the foregoing privatization plan, in domestic public offerings at various dates from August 2000 to July 2003. Certain of Chunghwa's common stocks were also sold in an international offering of securities in the form of American Depository Shares ("ADS") on July 17, 2003 and were listed and traded on the New York Stock Exchange (the "NYSE"). The MOTC sold common stocks of Chunghwa by auction in the ROC on August 9, 2005 and completed the second international offering on August 10, 2005. Upon completion of the share transfers associated with these offerings on August 12, 2005, the MOTC owned less than 50% of the outstanding shares of Chunghwa and completed the privatization plan.

Chunghwa launched its organizational transformation based on customer-centric structure effective from January 2022. Please refer to Note 42 Segment Information for details.

2. APPROVAL OF FINANCIAL STATEMENTS

The consolidated financial statements were authorized for issue by the management on March 29, 2024.

3. SUMMARY OF MATERIAL ACCOUNTING POLICY INFORMATION

Statement of Compliance

The accompanying consolidated financial statements have been prepared in conformity with International Financial Reporting Standards as issued by the International Accounting Standards Board (collectively, "IFRSs").

Basis of Preparation

The consolidated financial statements have been prepared on the historical cost basis except for certain financial instruments that are measured at fair values and net defined benefit liabilities (assets) which are measured at the present value of the defined benefit obligations less the fair value of plan assets.

Current and Noncurrent Assets and Liabilities

Current assets include:

- Assets held primarily for the purpose of trading;
- b. Assets expected to be realized within twelve months after the reporting period; and
- c. Cash and cash equivalents unless the asset is restricted from being exchanged or used to settle a liability for at least twelve months after the reporting period.

Current liabilities include:

- a. Liabilities held primarily for the purpose of trading;
- b. Liabilities due to be settled within twelve months after the reporting period; and
- c. Liabilities for which the Company does not have an unconditional right to defer settlement for at least twelve months after the reporting period.

Assets and liabilities that are not classified as current are classified as noncurrent.

Light Era Development Co., Ltd. ("LED") engages mainly in development of property for rent and sale. The assets and liabilities of LED related to property development within its operating cycle, which is over one year, are classified as current items.

Basis of Consolidation

a. Principles for preparing consolidated financial statements

The consolidated financial statements incorporate the financial statements of Chunghwa and entities controlled by Chunghwa (its subsidiaries).

When necessary, adjustments are made to the financial statements of subsidiaries to bring their accounting policies in line with those used by the Company.

All inter-company transactions, balances, income and expenses are eliminated in full upon consolidation.

Attribution of total comprehensive income to noncontrolling interests

Total comprehensive income of subsidiaries is attributed to the stockholders of the parent and to the noncontrolling interests even if it results in the noncontrolling interests having a deficit balance.

Changes in the Company's ownership interests in subsidiaries

Changes in the Company's ownership interests in subsidiaries that do not result in the Company losing control over the subsidiaries are accounted for as equity transactions. The carrying amounts of the Company's interests and the noncontrolling interests are adjusted to reflect the changes in their relative interests in the subsidiaries. Any difference between the amount by which the noncontrolling interests are adjusted and the fair value of the consideration paid or received is recognized directly in equity and attributed to stockholders of the parent.

b. The subsidiaries in the consolidated financial statements

The detail information of the subsidiaries at the end of reporting period was as follows:

			Percenta Ownership	interests	
Name of Investor	Name of Investee	Main Businesses and Products	2022	2023	Note
Chunghwa Telecom Co., Ltd.	Senao International Co., Ltd. ("SENAO")	Handset and peripherals retailer, sales of CHT mobile phone plans as an agent	28	28	a)
	Light Era Development Co., Ltd. ("LED")	Planning and development of real estate and intelligent buildings, and property management	100	100	
	Donghwa Telecom Co., Ltd. ("DHT")	International private leased circuit, IP VPN service, and IP transit services	100	100	
	Chunghwa Telecom Singapore Pte., Ltd. ("CHTS")	International private leased circuit, IP VPN service, and IP transit services	100	100	
	Chunghwa System Integration Co., Ltd. ("CHSI")	Providing system integration services and telecommunications equipment	100	100	
	Chunghwa Investment Co., Ltd. ("CHI")	Investment	89	89	
	CHIEF Telecom Inc. ("CHIEF")	Network integration, internet data center ("IDC"), communications integration and cloud application services	56	56	b)
	CHYP Multimedia Marketing & Communications Co., Ltd. ("CHYP")	Digital information supply services and advertisement services	100	100	
	Prime Asia Investments Group Ltd. ("Prime Asia")	Investment	100	100	
	Spring House Entertainment Tech. Inc. ("SHE")	Software design services, internet contents production and play, and motion picture production and distribution	56	56	
	Chunghwa Telecom Global, Inc. ("CHTG")	International private leased circuit, internet services, and transit services	100	100	
	Chunghwa Telecom Vietnam Co., Ltd. ("CHTV")	Intelligent energy saving solutions, international circuit, and information and communication technology ("ICT") services	100	100	
	Smartfun Digital Co., Ltd. ("SFD")	Providing diversified family education digital services	65	65	
	Chunghwa Telecom Japan Co., Ltd. ("CHTJ")	International private leased circuit, IP VPN service, and IP transit services	100	100	
	Chunghwa Sochamp Technology Inc. ("CHST")	Design, development and production of Automatic License Plate Recognition software and hardware	37	37	c)
	Honghwa International Co., Ltd. ("HHI")	Telecommunications engineering, sales agent of mobile phone plan application and other business services, etc.	100	100	
	Chunghwa Leading Photonics Tech Co., Ltd. ("CLPT")	Production and sale of electronic components and finished products	75	75	d)
	Chunghwa Telecom (Thailand) Co., Ltd. ("CHTT")	International private leased circuit, IP VPN service, ICT and cloud VAS services	100	100	

(Continued)

				interests		
Name of Investor	Name of Investee	Main Businesses and Products		er 31 2023	Note	
	CHT Security Co., Ltd. ("CHTSC")	Computing equipment installation, wholesale of computing and business machinery equipment and software, management consulting services, data processing services, digital information supply services and internet identity services	73	69	e)	
	International Integrated Systems, Inc. ("IISI")	IT solution provider, IT application consultation, system integration and package solution	51	51		
Senao International Co., Ltd.	Senao International (Samoa) Holding Ltd. ("SIS")	International investment	100	_	f)	
	Youth Co., Ltd. ("Youth")	Sale of information and communication technologies products	96	96		
	Aval Technologies Co., Ltd. ("Aval")	Sale of information and communication technologies products	100	100		
	Senyoung Insurance Agent Co., Ltd. ("SENYOUNG")	Property and liability insurance agency	100	100		
Youth Co., Ltd.	ISPOT Co., Ltd. ("ISPOT")	Sale of information and communication technologies products	100	100		
	Youyi Co., Ltd. ("Youyi")	Maintenance of information and communication technologies products	100	_	g)	
Aval Technologies Co., Ltd.	Wiin Technology Co., Ltd. ("Wiin")	Sale of information and communication technologies products	100	100		
Senyoung Insurance Agent Co., Ltd.	Senaolife Insurance Agent Co., Ltd. ("Senaolife")	Life insurance services	100	_	h)	
CHIEF Telecom Inc.	Unigate Telecom Inc. ("Unigate")	Telecommunications and internet service	100	100		
	Chief International Corp. ("CIC")	Telecommunications and internet service	100	100		
	Shanghai Chief Telecom Co., Ltd. ("SCT")	Telecommunications and internet service	49	49	i)	
Chunghwa Investment Co., Ltd.	Chunghwa Precision Test Tech. Co., Ltd. ("CHPT")	Production and sale of semiconductor testing components and printed circuit board	34	34	j)	
Chunghwa Precision Test Tech. Co., Ltd.	Chunghwa Precision Test Tech. USA Corporation ("CHPT (US)")	Design and after-sale services of semiconductor testing components and printed circuit board	100	100		
	CHPT Japan Co., Ltd. ("CHPT (JP)")	Related services of electronic parts, machinery processed products and printed circuit board	100	100		
	Chunghwa Precision Test Tech. International, Ltd. ("CHPT (International)")	Wholesale and retail of electronic materials, and investment	100	100		
	TestPro Investment Co., Ltd. ("TestPro")	Investment	100	100	k)	

(Continued)

			Percentage of Ownership interests December 31		
Name of Investor	Name of Investee	Main Businesses and Products	2022	2023	Note
TestPro Investment Co., Ltd.	NavCore Tech. Co., Ltd. ("NavCore")	Sale and manufacturing of smart equipment, smart factory software and hardware integration and technical consulting service	54	54	1)
Senao International (Samoa) Holding Ltd.	Senao International HK Limited ("SIHK")	International investment	100	_	m)
Prime Asia Investments Group Ltd.	Chunghwa Hsingta Co., Ltd. ("CHC")	Investment	100	100	
Chunghwa Hsingta Co., Ltd.	Chunghwa Telecom (China) Co., Ltd. ("CTC")	Integrated information and communication solution services for enterprise clients, and intelligent energy network service	_	_	n)
Chunghwa Precision Test Tech. International, Ltd.	Shanghai Taihua Electronic Technology Limited ("STET")	Design of printed circuit board and related consultation service	100	100	
	Su Zhou Precision Test Tech. Ltd. ("SZPT")	Assembly processed of circuit board, design of printed circuit board and related consultation service	100	100	
International Integrated Systems, Inc.	Infoexplorer International Co., Ltd.("IESA")	Investment	100	_	o)
	IISI Investment Co., Ltd. ("IICL")	Investment	_	_	p)
	Unitronics Technology Corp. ("UTC")	Development and maintenance of information system	99.96	100	q)
Infoexplorer International Co., Ltd.	International Integrated Systems (Hong Kong) Limited ("IEHK")	Investment and technical consulting service	100	_	r)
IISI Investment Co., Ltd.	Leading Tech Co., Ltd. ("LTCL")	Investment	_	_	p)
Leading Tech Co., Ltd.	Leading Systems Co., Ltd. ("LSCL")	Investment	_	_	p)

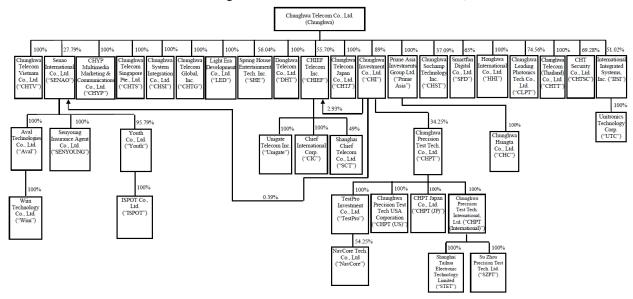
Daysontage of Ownership

(Concluded)

- a) Chunghwa continues to control seven out of thirteen seats of the Board of Directors of SENAO through the support of large beneficial stockholders. As a result, the Company treated SENAO as a subsidiary.
- b) CHIEF issued new shares in March 2022, December 2022 and December 2023 as its employees exercised options. Therefore, the Company's ownership interest in CHIEF decreased to 58.67% and 58.63% as of December 31, 2022 and 2023, respectively.
- c) Chunghwa did not participate in the capital increase of CHST in November 2022. Therefore, the Company's ownership interest in CHST decreased to 37.09% as of December 31, 2023. However, Chunghwa continues to control three out of five seats of the Board of Directors of CHST. As a result, the Company treated CHST as a subsidiary.
- d) CLPT issued new shares in May 2023 as its employees exercised options. Therefore, the Company's ownership interest in CLPT decreased to 74.56% as of December 31, 2023.
- e) CHTSC issued new shares in February 2022, May 2022, February 2023 and May 2023 as its employees exercised options. Therefore, the Company's ownership interest in CHTSC decreased to 73.09% and 69.28% as of December 31, 2022 and 2023, respectively.
- f) SIS reduced 96.26% of its capital to offset accumulated deficits in November 2022. The Company's ownership interest in SIS remained the same. SIS completed its liquidation in September 2023.
- g) Youyi completed its liquidation in November 2023.
- h) In order to coordinate with financial planning and adjustment of organizational resources, the Board of Directors of SENYOUNG approved the merger with Senaolife. SENYOUNG was the surviving company. The merger was completed on May 1, 2023.

- i) CHIEF has two out of three seats of the Board of Directors of SCT according to the mutual agreements among stockholders and gained control over SCT; hence, SCT is deemed as a subsidiary of the Company.
- j) Though the Company's ownership interest in CHPT is less than 50%, the management considered the absolute and relative size of ownership interest, and the dispersion of shares owned by the other stockholders and concluded that the Company has a sufficiently dominant voting interest to direct the relevant activities; hence, CHPT is deemed as a subsidiary of the Company.
- CHPT invested and established TestPro in March 2022. CHPT obtained 100% ownership interest of TestPro.
- TestPro invested and established NavCore in May 2022. TestPro obtained 54.25% ownership interest of NavCore.
- m) SIHK completed its liquidation in July 2023.
- n) CTC completed its liquidation in October 2022.
- o) IESA completed its liquidation in September 2023.
- p) IICL, LTCL and LSCL completed liquidation in September 2022.
- q) IISI purchased shares of UTC in August 2023. Therefore, the Company's ownership interest in UTC increased to 100% as of December 31, 2023.
- r) IEHK completed its liquidation in June 2023.

The following diagram presented information regarding the relationship and percentages of ownership interests between Chunghwa and its subsidiaries as of December 31, 2023.



Foreign Currencies

In preparing the financial statements of each individual entity, transactions in currencies other than the entity's functional currency (foreign currencies) are recognized at the rates of exchange prevailing at the dates of the transactions.

At the end of each reporting period, monetary items denominated in foreign currencies are retranslated at the rates prevailing at that date. Exchange differences on monetary items arising from settlement or translation are recognized in profit or loss in the period in which they arise.

Non-monetary items carried at fair value that are denominated in foreign currencies are retranslated at the rates prevailing at the date when the fair value was determined and related exchange differences are recognized in profit or loss. Conversely, when the fair value changes were recognized in other comprehensive income, related exchange difference shall be recognized in other comprehensive income.

Non-monetary items that are measured at historical cost in a foreign currency are not retranslated.

Chunghwa uses New Taiwan dollars (NT\$) as the functional currency. For the purpose of presenting consolidated financial statements, the assets and liabilities of the Company's foreign operations (including those subsidiaries, associates and joint ventures in other countries or currencies used different with Chunghwa) are translated into New Taiwan dollars using exchange rates prevailing at the end of each reporting period. Income and expense items are translated at the average exchange rates for the period. Exchange differences arising, if any, are recognized in other comprehensive income and attributed to stockholders of the parent and noncontrolling interests as appropriate.

Cash Equivalents

Cash equivalents include those maturities within three months from the date of acquisition, highly liquid, readily convertible to a known amount of cash and are subject to an insignificant risk of changes in value such as commercial paper, negotiable certificates of deposit, time deposits and stimulus vouchers. These cash equivalents are held for the purpose of meeting short-term cash commitments.

Inventories

Inventories are stated at the lower of cost or net realizable value item by item, except for those that may be appropriate to group items of similar or related inventories. Net realizable value is the estimated selling price of inventories less all estimated costs of completion and costs necessary to make the sale. The calculation of the cost of inventory is derived using the weighted-average method.

Buildings and Land Consigned to Construction Contractors

Inventories of LED are stated at the lower of cost or net realizable value item by item, except for those that may be appropriate to group as similar items or related inventories. Land acquired before construction is classified as land held for development and then reclassified as land held under development after LED begins its construction project.

Upon the completion of the construction project, LED recognizes revenues in the amount of proceeds from customers for land and buildings and related costs when ownership is transferred to the customers. The unsold portion of the completed construction project is transferred to land and building held for sale.

Investments in Associates and Joint Ventures

An associate is an entity over which the Company has significant influence and that is neither a subsidiary nor an interest in a joint venture. A joint venture is a joint arrangement whereby the Company and other parties that have joint control of the arrangement have rights to the net assets of the arrangement.

Investments accounted for using the equity method include investments in associates and interests in joint ventures. Under the equity method, an investment in an associate and a joint venture is initially recognized at cost and adjusted thereafter to recognize the Company's share of profit or loss and other comprehensive income of the associate and joint venture as well as the distribution received. The Company also recognizes its share in changes in the associates and joint ventures.

When the Company subscribes for new shares of an associate and a joint venture at a percentage different from its existing ownership percentage, the resulting carrying amount of the investment differs from the amount of the Company's proportionate interest in the associate and joint venture. The Company records such a difference as an adjustment to investments with the corresponding amount charged or credited to additional paid-in capital. When the adjustment should be debited to additional paid-in capital but the additional paid-in capital recognized from investments accounted for using equity method is insufficient, the shortage is debited to retained earnings.

Any excess of the cost of acquisition over the Company's share of the fair value of the identifiable net assets and liabilities of an associate and a joint venture at the date of acquisition is recognized as goodwill, which is included within the carrying amount of the investment and shall not be amortized. Any excess of the Company's share of the net fair value of the identifiable assets and liabilities over the cost of acquisition is recognized immediately in profit or loss.

The entire carrying amount of an investment (including goodwill) is tested for impairment as a single asset by comparing its recoverable amount with its carrying amount. Any impairment loss recognized is not allocated to any asset, including goodwill, that forms part of the carrying amount of the investment. Any reversal of that impairment loss is recognized to the extent that the recoverable amount of the investment subsequently increases.

The Company discontinues the use of the equity method from the date on which its investment ceases to be an associate and a joint venture. Any retained investment is measured at fair value at that date, and the fair value is regarded as the investment's fair value on initial recognition as a financial asset. The difference between the previous carrying amount of the associate and joint venture attributable to the retained interest and its fair value is included in the determination of the gain or loss on disposal of the associate and joint venture. The Company accounts for all amounts previously recognized in other comprehensive income in relation to that associate and joint venture on the same basis as would be required had that associate and joint venture directly disposed of the related assets or liabilities.

When the Company transacts with its associate and joint venture, profits and losses resulting from the transactions with the associate and joint venture are recognized in the Company's consolidated financial statements only to the extent of interests in the associate and joint venture that are not related to the Company.

Property, Plant and Equipment

Property, plant and equipment are initially measured at cost and subsequently measured at cost less accumulated depreciation and accumulated impairment loss.

Property, plant and equipment in the course of construction are depreciated and classified to the appropriate categories of property, plant and equipment when completed and ready for their intended use.

Depreciation on property, plant and equipment is recognized using the straight-line method. Each significant part is depreciated separately. Freehold land is not depreciated. The estimated useful lives, residual values and depreciation method are reviewed at the end of each year, with the effect of any changes in estimate accounted for on a prospective basis.

On derecognition of an item of property, plant and equipment, the difference between the net disposal proceeds and the carrying amount of the asset is recognized in profit or loss in the period in which the property is derecognized.

Investment Properties

Investment properties are properties held to earn rentals and/or for capital appreciation. Investment properties also include land held for a currently undetermined future use.

Investment properties are measured initially at cost, including transaction costs. Subsequent to initial recognition, investment properties are measured at cost less accumulated depreciation and accumulated impairment loss. Depreciation is recognized using the straight-line method.

For a transfer from the investment properties to property, plant and equipment, the deemed cost of the property, plant and equipment for subsequent accounting is its carrying amount at the commencement of owner-occupation.

For a transfer from the property, plant and equipment to investment properties, the deemed cost of the investment properties for subsequent accounting is its carrying amount at the end of owner-occupation.

On derecognition of the investment properties, the difference between the net disposal proceeds and the carrying amount of the asset is recognized in profit or loss in the period in which the property is derecognized.

Goodwill

Goodwill arising from the acquisition of a business is carried at cost as established at the date of acquisition of the business less accumulated impairment loss.

For the purpose of impairment testing, goodwill is allocated to each of the Company's cash-generating units or groups of cash-generating units (referred to as "cash-generating unit") that are expected to benefit from the synergies of the business combination.

A cash-generating unit to which goodwill has been allocated is tested for impairment annually, or more frequently when there is an indication that the unit may be impaired, by comparing its carrying amount, including the attributable goodwill, with its recoverable amount. However, if the goodwill allocated to a cash-generating unit was acquired in a business combination during the current annual period, that unit shall be tested for impairment before the end of the current annual period. If the recoverable amount of the cash-generating unit is less than its carrying amount, the impairment loss is allocated first to reduce the carrying amount of any goodwill allocated to the unit and then to the other assets of the unit pro rata based on the carrying amount of each asset in the unit. Any impairment loss is recognized directly in profit or loss. An impairment loss recognized for goodwill is not reversed in subsequent periods.

Intangible Assets Other Than Goodwill

Intangible assets with finite useful lives that are acquired separately are initially measured at cost and subsequently measured at cost less accumulated amortization and accumulated impairment loss. Amortization is recognized on a straight-line basis. The estimated useful life, residual value, and amortization method are reviewed at the end of each reporting period, with the effect of any changes in estimate being accounted for on a prospective basis. The residual value of an intangible asset with a finite useful life shall be assumed to be zero unless the Company expects to dispose of the intangible asset before the end of its economic life.

Intangible assets acquired in a business combination and recognized separately from goodwill are initially recognized at their fair value at the acquisition date (which is regarded as their cost). Subsequent to initial recognition, they are measured on the same basis as intangible assets that are acquired separately.

Gains or losses arising from derecognition of an intangible asset, measured as the difference between the net disposal proceeds and the carrying amount of the asset, are recognized in profit or loss in the period in which the asset is derecognized.

Impairment of Property, Plant and Equipment, Right-of-use Assets, Investment Properties, Intangible Assets Other Than Goodwill and Incremental Costs of Obtaining Contracts

At the end of each reporting period, the Company reviews the carrying amounts of its property, plant and equipment, right-of-use assets, investment properties and intangible assets, excluding goodwill, to determine whether there is any indication that those assets have suffered an impairment loss. If any such indication exists, the recoverable amount of the asset is estimated in order to determine the extent of the impairment loss. When it is not possible to estimate the recoverable amount of an individual asset, the Company estimates the recoverable amount of the cash-generating unit to which the asset belongs.

Intangible assets not yet available for use are tested for impairment at least annually, and whenever there is an indication that the asset may be impaired.

Recoverable amount is the higher of fair value less costs to sell and value in use. If the recoverable amount of an asset or cash-generating unit is estimated to be less than its carrying amount, the carrying amount of the asset or cash-generating unit is reduced to its recoverable amount, with the resulting impairment loss recognized in profit or loss.

Impairment loss from the assets related to incremental cost of obtaining contracts is recognized to the extent that the carrying amount of the assets exceeds the remaining amount of consideration that the Company expects to receive in exchange for related goods or services less the costs which relate directly to providing those goods or services.

When an impairment loss is subsequently reversed, the carrying amount of the asset or cash-generating unit is increased to the revised estimate of its recoverable amount, but only to the extent of the carrying amount that would have been determined had no impairment loss been recognized for the asset or cash-generating unit in prior years. A reversal of an impairment loss is recognized in profit or loss.

Financial Instruments

Financial assets and financial liabilities are recognized when the Company becomes a party to the contractual provisions of the instruments.

Financial assets and financial liabilities are initially measured at fair value. Transaction costs that are directly attributable to the acquisition of financial assets and financial liabilities (other than financial assets and financial liabilities at fair value through profit or loss) are added to the fair value of the financial assets or financial liabilities, as appropriate, on initial recognition. Transaction costs directly attributable to the acquisition of financial assets or financial liabilities at fair value through profit or loss are recognized immediately in profit or loss.

a. Financial assets

All regular way purchases or sales of financial assets are recognized and derecognized on a trade date basis. The regular way of transaction means the purchase or sale of financial assets delivered within the time frame established by regulation or convention in the marketplace.

- 1) Measurement category
 - a) Financial assets at fair value through profit or loss (FVTPL)

Financial asset is classified as at FVTPL when the financial asset is mandatorily classified as at FVTPL. Financial assets mandatorily classified as at FVTPL include investments in

equity instruments which are not designated as at fair value through other comprehensive income (FVOCI).

Financial assets at FVTPL are stated at fair value, with any gains or losses arising on remeasurement recognized in profit or loss. The net gain or loss recognized in profit or loss does not incorporate any dividend earned on the financial asset. Fair value is determined in the manner described in Note 37.

b) Financial assets at amortized cost

Financial assets that meet the following conditions are subsequently measured at amortized cost:

- i. The financial asset 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.

Subsequent to initial recognition, financial assets at amortized cost are measured at amortized cost, which equals to gross carrying amount determined by the effective interest method less any impairment loss, except for short-term receivables as the effect of discounting is immaterial. Exchange differences are recognized in profit or loss.

Interest income is calculated by applying the effective interest rate to the gross carrying amount of such financial assets.

c) Investments in equity instruments at FVOCI

On initial recognition, the Company may make an irrevocable election to designate investments in equity instruments as at FVOCI. Designation at FVOCI is not permitted if the equity investment is held for trading or if it is contingent consideration recognized by an acquirer in a business combination.

Investments in equity instruments at FVOCI are subsequently measured at fair value with gains and losses arising from changes in fair value recognized in other comprehensive income and accumulated in other equity. The cumulative gain or loss will not be reclassified to profit or loss on disposal of the equity investments. Instead, it will be transferred to retained earnings.

Dividends on these investments in equity instruments are recognized in profit or loss when the Company's right to receive the dividends is established, unless the dividends clearly represent a recovery of part of the cost of the investment.

2) Impairment of financial assets and contract assets

The Company recognizes a loss allowance for expected credit losses on financial assets at amortized cost (including accounts receivable) and contract assets.

The Company recognizes lifetime Expected Credit Loss (ECL) for accounts receivable and contract assets. For all other financial instruments, the Company recognizes lifetime ECL when there has been a significant increase in credit risk since initial recognition. If, on the other hand, the credit risk on the financial instrument has not increased significantly since initial recognition, the Company measures the loss allowance for that financial instrument at an amount equal to 12-month ECL.

Expected credit losses reflect the weighted average of credit losses with the respective risks of a default occurring as the weights. Lifetime ECL represents the expected credit losses that will result from all possible default events over the expected life of a financial instrument. In contrast, 12-month ECL represents the portion of ECL that is expected to result from default events on a financial instrument that are possible within 12 months after the reporting date.

The Company recognizes an impairment loss for all financial instruments with a corresponding adjustment to their carrying amount through a loss allowance account.

3) Derecognition of financial assets

The Company derecognizes a financial asset only when the contractual rights to the cash flows from the asset expire, or when it transfers the financial asset and substantially all the risks and rewards of ownership of the asset to another entity.

On derecognition of a financial asset measured at amortized cost in its entirety, the difference between the asset's carrying amount and the sum of the consideration received and receivable is recognized in profit or loss.

On derecognition of investments in equity instruments at FVOCI in its entirety, the cumulative gain or loss is directly transferred to retained earnings, and it is not reclassified to profit or loss.

b. Financial liabilities

1) Subsequent measurement

Except for financial liabilities at FVTPL, all the financial liabilities are subsequently measured at amortized cost using the effective interest method.

2) Derecognition of financial liabilities

The Company derecognizes financial liabilities when, and only when, the Company's obligations are discharged, cancelled or expired. The difference between the carrying amount of the financial liability derecognized and the consideration paid and payable, including any non-cash assets transferred or liabilities assumed, is recognized in profit or loss.

c. Derivative financial instruments

The Company enters into derivative financial instruments to manage its exposure to foreign exchange rate risks, including forward exchange contracts.

Derivatives are initially measured at fair value at the date the derivative contracts are entered into and are subsequently remeasured to their fair value at the end of each reporting period. The resulting gain or loss is recognized in profit or loss immediately unless the derivative is designated and effective as a hedging instrument, in which event the timing of the recognition in profit or loss depends on the nature of the hedge relationship. When the fair value of derivative financial instruments is positive, the derivative is recognized as a financial asset; when the fair value of derivative financial instruments is negative, the derivative is recognized as a financial liability.

Hedge Accounting

The Company designates some derivatives instruments as cash flow hedges. Hedges of foreign exchange risk on firm commitments are accounted for as cash flow hedges.

The effective portion of changes in the fair value of derivatives that are designated and qualify as cash flow hedges is recognized in other comprehensive income. The gain or loss relating to the ineffective portion is recognized immediately in profit or loss.

The associated gains or losses that were recognized in other comprehensive income are reclassified from equity to profit or loss as a reclassification adjustment in the line item relating to the hedged item in the same period when the hedged item affects profit or loss. If a hedge of a forecast transaction subsequently results in the recognition of a non-financial asset or a non-financial liability, the associated gains and losses that were recognized in other comprehensive income are removed from equity and are included in the initial cost of the non-financial asset or non-financial liability.

The Company discontinues hedge accounting only when the hedging relationship ceases to meet the qualifying criteria; for instance, when the hedging instrument expires or is sold, terminated or exercised. The cumulative gain or loss on the hedging instrument that has been previously recognized in other comprehensive income from the period when the hedge was effective remains separately in equity until the forecast transaction occurs. When a forecast transaction is no longer expected to occur, the gain or loss accumulated in equity is recognized immediately in profit or loss.

Provisions

Provisions are measured at the best estimate of the expenditure required to settle the Company's obligation at the end of the reporting period, taking into account the risks and uncertainties surrounding the obligation. The provisions for warranties claims are made by management according to the sales agreements which represent the management's best estimate of the future outflow of economic benefits. The provisions of warranties claims are recognized as operating cost in the period in which the goods are sold. The provision for onerous contracts represents the present obligation resulting from the measurement for the unavoidable costs of meeting the Company's contractual obligations exceed the economic benefits expected to be received from the contracts. In assessing whether a contract is onerous, the cost of fulfilling a contract includes both the incremental costs of fulfilling that contract and an allocation of other costs that are related directly to fulfilling contracts.

Revenue Recognition

The Company identifies the performance obligations in the contract with the customers, allocates transaction price to each performance obligation and recognizes revenue when performance obligations are satisfied.

Sales of products are recognized as revenue when the Company delivers products and the customer accepts and controls the product. Except for the consumer electronic products such as mobile devices sold in channel stores which are usually in the form of cash sale, the Company recognizes revenues for sale of other electronic devices and corresponding trade notes and accounts receivable.

Usage revenues from fixed-line services (including local, domestic long distance and international long distance telephone services), mobile services, internet and data services, and interconnection and call transfer fees from other telecommunications companies and carriers are billed in arrears and are recognized based upon seconds or minutes of traffic processed when the services are provided in accordance with contract terms. The usage revenues and corresponding trade notes and accounts receivable are recognized monthly.

Other revenues are recognized as follows: (a) one-time subscriber connection fees (on fixed-line services) are first recognized as contract liabilities and revenues are recognized subsequently over the average expected customer service periods, (b) monthly fees (on fixed-line services, mobile, internet and data services) and related receivables are accrued monthly, and (c) prepaid services (fixed-line, mobile, internet and data services) are recognized as contract liabilities upon collection considerations from customers and are recognized as revenues subsequently based upon actual usage by customers.

Where the Company enters into transactions which involve both the provision of telecommunications service bundled with products such as handsets, total consideration received from products and telecommunications service in these arrangements are allocated based on their relative stand-alone selling price. The amount of sales revenue recognized for products is not limited to the amount paid by the customer for the products. When the amount of sales revenue recognized for products exceeded the amount paid by the customer for the products, the difference is recognized as contract assets. Contract assets are reclassified to accounts receivable when the amounts become collectible from customers subsequently. When the amount of sales revenue recognized for products was less than the amount paid by the customer for the products, the difference is recognized as contract liabilities and revenues are recognized subsequently when the telecommunications services are provided.

For project business contracts, if a substantial part of the Company's promise to customers is to manage and coordinate the various tasks and assume the risks of those tasks to ensure the individual goods or services are incorporated into the combined output, they are treated as a single performance obligation since the Company provides a significant integration service. The Company recognizes revenues and corresponding accounts receivable when the project business contract is completed and accepted by customers. For some project contracts, the Company does not create an asset with an alternative use to the Company and has an enforceable right to payment for performance completed to date; therefore, performance obligations are satisfied and revenues are recognized over time.

For service contracts such as maintenance and warranties, customers simultaneously receive and consume the benefits provided by the Company; thus, revenues and corresponding accounts receivable of service contracts are recognized over the related service period.

When another party is involved in providing goods or services to a customer, the Company is acting as a principal if it controls the specified good or service before that good or service is transferred to a customer; otherwise, the Company is acting as an agent. When the Company is acting as a principal, gross inflow of economic benefits arising from transactions is recognized as revenue. When the Company is acting as an agent, revenue is recognized as its share of transaction.

Incremental Costs of Obtaining Contracts

Commissions and equipment subsidy related to telecommunications service as a result of obtaining contracts are recognized as an asset under the incremental costs of obtaining contracts to the extent the costs are expected to be recovered and are amortized over the contract period. However, the Company elects not to capitalize the incremental costs of obtaining contracts if the amortization period of the assets that the Company otherwise would have recognized is expected to be one year or less. LED's commissions for real estate sales as a result of obtaining contracts are recognized as an asset under the incremental costs of obtaining contracts to the extent the costs are expected to be recovered and are amortized when the real estate is sold and its ownership is transferred to the customers.

Leasing

At inception of a contract, the Company assesses whether the contract is, or contains, a lease.

a. The Company as lessor

Rental income from operating leases is recognized on a straight-line basis over the term of the relevant lease.

b. The Company as lessee

The Company recognizes right-of-use assets and lease liabilities for all leases at the commencement date of a lease, except for lease payments for low-value assets are recognized as expenses on a straight-line basis over the lease terms accounted for applying recognition exemption.

Right-of-use assets are initially measured at cost, which comprises the initial measurement of lease liabilities and for lease payments made at or before the commencement date. Right-of-use assets are subsequently measured at cost less accumulated depreciation and accumulated impairment losses and adjusted for any remeasurement of the lease liabilities. Right-of-use assets are presented separately on the consolidated balance sheets.

Right-of-use assets are depreciated using the straight-line basis from the commencement dates to the earlier of the end of the useful lives of the right-of-use assets or the end of the lease terms.

Lease liabilities were initially measured at the present value of the lease payments, which comprise fixed payments, in-substance fixed payments, variable lease payments which depend on an index or a rate. The lease payments are discounted using the interest rate implicit in a lease, if that rate can be readily determined. If such rate cannot be readily determined, the lessee's incremental borrowing rate is used.

Lease liabilities are subsequently measured at amortized cost using the effective interest method, with interest expense recognized over the lease terms. When there is a change in a lease term or a change in future lease payments resulting from a change in an index or a rate used to determine those payments, the Company remeasures the lease liabilities with a corresponding adjustment to the right-of-use assets. However, if the carrying amount of the right-of-use assets is reduced to zero, any remaining amount of the remeasurement is recognized in profit or loss. The Company accounts for the remeasurement of the lease liability as a result of the decrease of lease scope by decreasing the carrying amount of the right-of-use assets and recognizes in profit or loss any gain or loss on the partial or full termination of the lease. Lease liabilities are presented separately on the consolidated balance sheets.

Variable lease payments not depending on an index or a rate are recognized as expenses in the periods in which they are incurred.

Borrowing Costs

All borrowing costs are recognized in profit or loss in the period in which they are incurred.

Government Grants

Government grants are not recognized until there is reasonable assurance that the Company will comply with the conditions attached to government grants and that the grants will be received.

Government grants related to income are recognized in profit or loss on a systematic basis over the periods in which the Company recognizes expenses of the related costs for which the grants are intended to compensate. Specifically, government grants whose primary condition is that the Company should construct noncurrent assets are recognized as deferred revenue and transferred to profit or loss on a systematic and rational basis over the useful lives of the related assets.

Government grants that become receivable as compensation for expenses or losses already incurred are recognized in profit or loss in the period in which they become receivable.

Employee Benefits

a. Short-term employee benefits

Liabilities recognized in respect of short-term employee benefits are measured at the undiscounted amount of the benefits expected to be paid in exchange for the related service.

b. Retirement benefits

Payments to defined contribution retirement benefit plans are recognized as an expense when employees have rendered service entitling them to the contributions.

Defined benefit costs (including service cost, net interest and remeasurement) under the defined benefit retirement benefit plans are determined using the projected unit credit method. Service cost (including current service cost and gains or losses on settlements) and net interest on the net defined benefit liability (asset) are recognized as employee benefits expense in the period they occur. Remeasurement, comprising (a) actuarial gains and losses; and (b) the return on plan assets, excluding amounts included in net interest on the net defined benefit liability (asset), is recognized in other comprehensive income in the period in which they occur. Remeasurement recognized in other comprehensive income is reflected immediately in retained earnings and will not be reclassified to profit or loss.

Net defined benefit liability (asset) represents the actual deficit (surplus) in the Company's defined benefit plan. Any surplus resulting from this calculation is limited to the present value of any refunds from the plans or reductions in future contributions to the plans.

c. Other long-term employee benefits

Other long-term employee benefits are accounted for in the same way as the accounting required for defined benefit plan except that remeasurement is recognized in profit or loss.

Share-based Payment Arrangements - Employee Stock Options

The fair value determined at the grant date of the employee share options is expensed on a straight-line basis over the vesting period, based on the Company's estimate of employee stock options that are expected to ultimately vest, with a corresponding increase in additional paid-in capital - employee stock options. If the equity instruments granted vest immediately at the grant date, expenses are recognized in full in profit or loss.

At the end of each reporting period, the Company revises its estimate of the number of employee share options expected to vest. The impact of the revision of the original estimates, if any, is recognized in profit or loss such that the cumulative expense reflects the revised estimate, with a corresponding adjustment to additional paid-in capital - employee stock options.

Income Tax

Income tax expense represents the sum of the tax currently payable and deferred tax.

a. Current tax

The current tax is based on taxable profit for the year. Taxable profit differs from profit as reported in the consolidated statements of comprehensive income because of items of income or expense that are taxable or deductible in other years and items that are never taxable or deductible. The Company's liability for current tax is calculated using tax rates that have been enacted or substantively enacted by the end of the reporting period.

Income tax on unappropriated earnings is accrued during the period the earnings arise and adjusted to the extent that distributions are approved by the stockholders in the following year.

Adjustments of prior years' tax liabilities are added to or deducted from the current year's tax provision.

b. Deferred tax

Deferred tax is recognized on temporary differences between the carrying amounts of assets and liabilities in the consolidated financial statements and the corresponding tax bases used in the computation of taxable profit. A deferred tax liability is not recognized on taxable temporary difference arising from initial recognition of goodwill.

Deferred tax liabilities are generally recognized for all taxable temporary differences. Deferred tax assets are generally recognized for all deductible temporary differences, unused loss carry forward and unused tax credits from purchases of machinery, equipment and technology and research, and development expenditures, etc. to the extent that it is probable that taxable profits will be available against which those deductible temporary differences can be utilized.

Deferred tax liabilities are recognized for taxable temporary differences associated with investments in subsidiaries, associates, and joint ventures, except where the Company is able to control the reversal of the temporary difference and it is probable that the temporary difference will not reverse in the foreseeable future. Deferred tax assets arising from deductible temporary differences associated with such investments and interests are only recognized to the extent that it is probable that there will be sufficient taxable profits against which to utilize the benefits of the temporary differences and they are expected to reverse in the foreseeable future.

The carrying amount of deferred 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 profits will be available to allow all or part of the asset to be recovered. A previously unrecognized deferred tax asset is also reviewed at the end of each reporting period and recognized to the extent that it has become probable that future taxable profit will allow the deferred tax asset to be recovered.

Deferred tax assets and liabilities are measured at the tax rates that are expected to apply in the period in which the liability is settled or the asset realized, based on tax rates (and tax laws) that have been enacted or substantively enacted by the end of the reporting period. The measurement of deferred tax assets and liabilities reflects the tax consequences that would follow from the manner in which the Company expects, at the end of the reporting period, to recover or settle the carrying amount of its assets and liabilities.

The Company has applied the exception to recognizing and disclosing information about deferred tax assets and liabilities related to Pillar Two income taxes. Therefore, the Company neither recognizes nor discloses information about deferred tax assets and liabilities related to Pillar Two income taxes.

Current and deferred tax

Current and deferred tax are recognized in profit or loss, except when they relate to items that are recognized in other comprehensive income, in which case, the current and deferred tax are also recognized in other comprehensive income.

Where current tax or deferred tax arises from the initial accounting for a business combination, the tax effect is included in the accounting for the business combination.

4. MATERIAL ACCOUNTING JUDGMENTS AND KEY SOURCES OF ESTIMATION, UNCERTAINTY AND ASSUMPTION

In the application of the Company's accounting policies, the management is required to make judgments, estimates and assumptions which are based on historical experience and other factors that are not readily apparent from other sources. Actual results may differ from these estimates. The estimates and underlying assumptions are reviewed by the management on an ongoing basis.

a. Material accounting judgments

1) Principal versus agent

The Company's project agreements are mainly to provide one or more customized equipment or services to customers. In order to fulfill the agreements, another party may be involved in some agreements. The Company considers the following factors to determine whether the Company is a principal of the transaction: whether the Company is the primary obligation provider of the agreements, its exposures to inventory risks and the discretion in establishing prices, etc. The determination of whether the Company is a principal or an agent will affect the amount of revenue recognized by the Company. Only when the Company is acting as a principal, gross inflows of economic benefits arising from transactions is recognized as revenue.

2) Control over subsidiaries

As discussed in Note 3, "Summary of Material Accounting Policy Information - Basis of Consolidation", some entities are subsidiaries of the Company although the Company only owns less than 50% ownership interests in these entities. After considering the Company's absolute size of holding in the entity and the relative size of and the dispersion of shares owned by the other stockholders, and the contractual arrangements between the Company and other investors, potential voting interests and the written agreement between stockholders, the management concluded that the Company has a sufficiently dominant voting interest to direct the relevant activities of the entity and to have control over the governance of the entity and therefore the Company has control over these entities.

b. Key sources of estimation uncertainty and assumption

The following are the key assumptions concerning the future, and other key sources of estimation uncertainty at the end of the reporting period. Actual results may differ from these estimates.

1) Impairment of trade notes and accounts receivable

The provision for impairment of trade notes and accounts receivable is based on assumptions on probability of default and expected credit loss rates. The Company uses judgment in making these assumptions and in selecting the inputs to the impairment calculation, based on the Company's past experience, current market conditions as well as forward looking information at the end of each reporting period. For details of the key assumptions and inputs used, see Note 10. Where the actual future cash flows are less than expected, a material impairment loss may arise.

2) Fair value measurements and valuation processes

For the assets and liabilities measured at fair value without quoted prices in active markets, the Company's management determines the appropriate valuation techniques for the fair value measurements and whether to engage third party qualified appraisers based on the related regulations and professional judgments.

Information about the valuation techniques and inputs used in determining the fair value of various assets and liabilities was disclosed in Note 38. If the actual changes of inputs in the future differ from expectation, the fair value may vary accordingly. The Company updates inputs periodically to monitor the appropriateness of the fair value measurement.

3) Provision for inventory valuation and obsolescence

Inventories are stated at the lower of cost or net realizable value. Estimates of net realizable value are based on the most reliable evidence available at the time the estimates are made at the end of reporting period. These estimates take into consideration fluctuations of price or cost directly relating to events occurring after the end of the period to the extent that such events confirm conditions existing at the end of the period. Inventory write-downs are determined on an item by item basis, except for those similar items which could be categorized into the same groups. The Company uses the inventory holding period and turnover as the evaluation basis for inventory obsolescence losses.

 Impairment of property, plant and equipment, right-of-use assets, investment properties and intangible assets

In the process of evaluating the potential impairment of tangible and intangible assets, the Company is required to consider internal and external indicators of impairment and make subjective judgments in determining the independent cash flows, useful lives, expected future revenue and expenses related to the specific asset groups within the context of the telecommunication industry. Any changes in these estimates based on changed economic conditions or business strategies could result in significant impairment charges in future periods.

5) Useful lives of property, plant and equipment

As discussed in Note 3, "Summary of Material Accounting Policy Information - Property, Plant and Equipment", the Company reviews estimated useful lives of property, plant and equipment at the end of each year.

6) Recognition and measurement of defined benefit plans

Net defined benefit liabilities (assets) and the resulting pension expense under defined benefit pension plans are calculated using the Projected Unit Credit Method. Actuarial assumptions

comprise the discount rate, employee turnover rate, average future salary increase and etc. Changes in economic circumstances and market conditions will affect these assumptions and may have a material impact on the amount of the expense and the liability.

7) Lessees' incremental borrowing rates

In determining a lessee's incremental borrowing rate used in discounting lease payments, a risk-free rate for relevant duration and the same currency is selected as a reference rate. The lessee's credit spread adjustments and lease specific adjustments are also taken into account.

5. APPLICATION OF NEW AND AMENDED INTERNATIONAL FINANCIAL REPORTING STANDARDS

Amendments to IFRSs and the New Interpretation That Are Mandatorily Effective for the Current Year

The Company has applied Amendments to IAS 1: Disclosure of Accounting Policies, Amendments to IAS 8: Definition of Accounting Estimate, Amendments to IAS 12: Deferred Tax related to Assets and Liabilities arising from a Single Transaction, and Amendments to IAS 12 Income Taxes: International Tax Reform-Pillar Two Model Rules. The application of these amendments has had no impact on the disclosures or amounts recognized in the Company's consolidated financial statements.

New and Amended IFRSs in Issue But Not Yet Effective

The Company has not applied the following new and amended IFRSs that have been issued but are not yet effective.

		Effective Date Issued by IASB
New or	Amended Standards and Interpretations	(Note 1)
Amendments to IFRS 16	Leases Liability in a Sale and Leaseback	January 1, 2024 (Note 2)
Amendments to IAS 1 Amendments to IAS 1	Classification of Liabilities as Current or Non-current Non-current Liabilities with Covenants	January 1, 2024 January 1, 2024
Amendments to IAS 7 and IFRS 7	Supplier Finance Arrangements	January 1, 2024 (Note 3)
Amendments to IFRS 10 and IAS 28	Sale or Contribution of Assets between An Investor and Its Associate or Joint Venture	To be determined by IASB
Amendments to IAS 21	Lack of Exchangeability	January 1, 2025 (Note 4)

- Note 1: The aforementioned new or amended standards or interpretations are effective after fiscal year beginning on or after the effective dates, unless specified otherwise.
- Note 2: A seller-lessee shall apply the Amendments to IFRS 16 retrospectively to sale and leaseback transactions entered into after the date of initial application of IFRS 16.
- Note 3: The amendments provide some transition relief regarding disclosure requirements.
- Note 4: An entity shall apply those amendments for annual reporting periods beginning on or after January 1, 2025.

The application of "Amendments to IFRS 16: Leases Liability in a Sale and Leaseback", "Amendments to IAS 1: Classification of Liabilities as Current or Non-current", "Amendments to IAS 1: Non-current Liabilities with Covenants" and "Amendments to IAS 7 and IFRS 7: Supplier Finance Arrangements" will not have material impact on the Company's consolidated financial statements.

As of the date the consolidated financial statements were authorized for issue, the Company is continuously assessing whether the application of "Amendments to IFRS 10 and IAS 28: Sale or Contribution of Assets

between An Investor and Its Associate or Joint Venture" and "Amendments to IAS 21: Lack of Exchangeability" will have the impact on the Company's financial position and operating result. The Company will disclose the relevant impact when the assessment is completed.

6. U.S. DOLLAR AMOUNTS

The Company maintains its accounts and expresses its consolidated financial statements in New Taiwan dollars. For readers' convenience only, U.S. dollar amounts presented in the accompanying consolidated financial statements have been translated from New Taiwan dollars as set forth in the statistical release of the Federal Reserve Board of the United States as of December 29, 2023, which was NT\$30.62 to US\$1.00. The convenience translations should not be construed as representations that the New Taiwan dollar amounts have been, could have been, or could in the future be, converted into U.S. dollars at this or any other rate of exchange.

7. CASH AND CASH EQUIVALENTS

		December 31			
		2022	2023		
	NT\$ NT\$			NT\$	
		(In Millions)			
Cash					
Cash on hand	\$	472	\$	404	
Bank deposits		10,423		9,522	
		10,895		9,926	
Cash equivalents (with maturities of less than three months)		<u> </u>			
Commercial paper	\$	19,592	\$	14,496	
Negotiable certificates of deposit		15,500		5,900	
Time deposits		4,206		3,502	
Stimulus vouchers				_	
		39,298		23,898	
	\$	50,193	\$	33,824	

The annual yield rates of bank deposits, commercial paper, negotiable certificates of deposit and time deposits as of balance sheet dates were as follows:

	Decem	ber 31
	2022	2023
Bank deposits	0.00%-2.62%	0.00%-3.10%
Commercial paper	0.56%-1.30%	0.72%-1.33%
Negotiable certificates of deposit	1.20%-1.45%	1.38%
Time deposits	0.01%-4.65%	0.01%-5.50%

8. FINANCIAL INSTRUMENTS AT FAIR VALUE THROUGH PROFIT OR LOSS

		December 31					
		2022		2023			
		NT\$		NT\$			
		(In Millions)					
Financial assets-current							
Mandatorily measured at FVTPL							
Derivatives (not designated for hedge)							
Forward exchange contracts	\$	3	\$	1			
Non-derivatives							
Listed stocks - domestic		1		<u> </u>			
	\$	4	\$	1			
	_		_				
Financial assets-noncurrent							
Mandatorily measured at FVTPL							
Non-derivatives							
Non-listed stocks - domestic	\$	758	\$	704			
Non-listed stocks - foreign		103		89			
Limited partnership - domestic		135		219			
Film and drama investing agreements		24		24			
	<u>\$</u>	1,020	\$	1,036			

Chunghwa's Board of Directors approved an investment in Taiwania Capital Buffalo Fund VI, L.P. at the amount of \$600 million in January 2022. As of December 31, 2023, Chunghwa invested \$200 million.

Outstanding forward exchange contracts not designated for hedge as of balance sheet dates were as follows:

	Currency	Maturity Period	Contract Amount (In Millions)
<u>December 31, 2022</u>			
Forward exchange contracts - buy	NT\$/EUR	March 2023	NT\$62/EUR2
December 31, 2023			
Forward exchange contracts - buy	NT\$/EUR	March 2024	NT\$145/EUR4

The Company entered into the above forward exchange contracts to manage its exposure to foreign currency risk due to fluctuations in exchange rates. However, the aforementioned derivatives did not meet the criteria for hedge accounting.

9. FINANCIAL ASSETS AT FAIR VALUE THROUGH OTHER COMPREHENSIVE INCOME - NONCURRENT

		December 31						
	_	2022		2023				
	_	NT\$		NT\$				
		(In Millions)						
Domestic investments								
Listed stocks	\$	273	\$	243				
Non-listed stocks		3,084		3,734				
Foreign investments								
Non-listed stocks		134		435				
	\$	3,491	\$	4,412				

The Company holds the above foreign and domestic stocks for medium to long-term strategic purposes and expects to profit from long-term investment. Accordingly, the management elected to designate these investments in equity instruments at FVOCI as they believe that recognizing short-term fair value fluctuations of these investments in profit or loss is not consistent with the Company's strategy of holding these investments for long-term purposes.

The Company disposed of all its investments in UUPON Inc. (UUPON) in December 2022 and the fair value of the disposed investment was \$0.2 million. The Company disposed of its investment in China Airlines, Ltd. starting from December 2020 and sold all its shares by February 2021. The total fair value of the disposed investment was \$2,636 million in 2021. The Company disposed of its investments in UUPON and Cotech Engineering Fuzhou Corp. in October and December 2021 and the fair value of the disposed investment were \$1 million and \$4 million, respectively.

CHI obtained significant influence over AgriTalk Technology Inc. ("ATT") and Imediac Co., Ltd. ("IME") in July 2021 and August 2021, respectively. Therefore, the aforementioned investments were reclassified from financial asset at FVOCI to investments in associates at fair value of \$19 million and \$45 million, respectively. (Please refer to Note 15 (a)).

The related unrealized gains and losses on financial assets at FVOCI of gain of \$60 million and loss of \$0.1 million were transferred from other equity to retained earnings upon the aforementioned disposals in 2021 and 2022, respectively.

CHI participated in the private placement of PChome Online Inc. in the amount of \$200 million in October 2021.

The Company recognized dividend income of \$154 million, \$157 million and \$167 million for the years ended December 31, 2021, 2022 and 2023, respectively, all of which were from the outstanding investments on December 31, 2021, 2022 and 2023, respectively.

10. TRADE NOTES AND ACCOUNTS RECEIVABLE, NET

		December 31						
	2022	2	2023					
	NTS		NT\$					
		(In Million	s)					
Trade notes and accounts receivable	\$ 2	26,037 \$	25,944					
Less: Loss allowance	1	(1,365)	(1,102)					
	\$ 2	24,672 \$	24,842					

The main credit terms range from 30 to 90 days.

The Company serves a large consumer base for telecommunications business; therefore, the concentration of credit risk is limited. When having transactions with customers, the Company considers the record of arrears in the past. In addition, the Company may also collect some telecommunication charges in advance to reduce the payment arrears in subsequent periods.

The Company adopted a policy of dealing with counterparties with certain credit ratings for project business and to obtain collateral where necessary to mitigate the risk of loss arising from defaults. Credit rating information is provided by independent rating agencies where available and, if such credit rating information is not available, the Company uses other publicly available financial information and its own historical transaction experience to rate its major customers. The Company continues to monitor the credit exposure and credit ratings of its counterparties and spread the credit risk amongst qualified counterparties.

In order to mitigate credit risk, the management of the Company has delegated a team responsible for determining credit limits, credit approvals and other monitoring procedures to ensure the recoverability of receivables. In addition, the Company reviews the recoverable amount of receivables at balance sheet dates to ensure that adequate allowance is provided for possible irrecoverable amounts. In this regard, the management believes the Company's credit risk could be reasonably reduced.

The Company applies the simplified approach to recognize expected credit losses prescribed by IFRS 9, which permits the use of lifetime expected loss provision for receivables. The expected credit losses on receivables are estimated using a provision matrix by reference to past default experience of the customers and an analysis of the customers' current financial positions, as well as the forward-looking indicators such as macroeconomic business indicators.

When there is evidence indicating that the counterparty is in evasion, bankruptcy, deregistration or the accounts receivable are over two years past due and the recoverable amount cannot be reasonable estimated, the Company writes off the trade notes and accounts receivable. For accounts receivable that have been written off, the Company continues to engage in enforcement activity to attempt to recover the receivables due. Where recoveries are made, these are recognized in profit or loss.

Except for receivables arising from telecommunications business and project business, the Company's remaining accounts receivable are limited. Therefore, only Chunghwa's provision matrix arising from telecommunications business and project business is disclosed below:

December 31, 2022

	N	Oue NT\$	L	ast Due ess than 0 Days NT\$		Past Due 31 to 60 Days NT\$	60 61 to 90 s Days NT\$		Past Due 91 to 120 Days NT\$ Iillions)		_	Past Due 121 to 180 Days NT\$	to 180 Days		_	Total NT\$
<u>Telecommunications</u> <u>business</u>																
Expected credit loss rate (Note a)	(0%-1%	1	%-20%	3	3%-64%	1	1%-80%	2	25%-90%		45%-96%		100%		
Gross carrying amount	\$	17,163	\$	310	\$	87	\$	33	\$	28	\$	34	\$	599	\$	18,254
Loss allowance (Lifetime ECL) Amortized cost	\$	(50) 17,113	\$	(22) 288	\$	(20) 67	\$	(21) 12	\$	(20)	\$	(29)	\$	(599) —	\$	(761) 17,493
Project business																
Expected credit loss rate (Note b)	()%-5%		5%		10%		30%		50%		80%		100%		
Gross carrying amount	\$	3,798	\$	119	\$	11	\$	53	\$	1	\$	2	\$	547	\$	4,531
Loss allowance (Lifetime ECL)		(3)		(6)		(1)		(16)		(1)		(1)		(547)		(575)
Amortized cost	\$	3,795	\$	113	\$	10	\$	37	\$		\$	1	\$		\$	3,956

December 31, 2023

	N	ot Past Due NT\$	Le	ast Due ess than 0 Days NT\$	Past Due 31 to 60 Days NT\$		Past Due 61 to 90 Days NT\$ (In N		Past Due 91 to 120 Days NT\$ Millions)		Past Due 121 to 180 Days NT\$		Past Due over 180 Days NT\$		Total NT\$
Telecommunications															
business															
Expected credit loss rate									_						
(Note a)		0%-1%		%-20%		3%-65%		2%-82%		23%-91%		40%-96%		100%	
Gross carrying amount	\$	17,066	\$	346	\$	135	\$	70	\$	48	\$	49	\$	578	\$18,292
Loss allowance (Lifetime															
ECL)		(50)		(22)		(29)		(29)		(35)		(22)		(578)	(765)
Amortized cost	\$	17,016	\$	324	\$	106	\$	41	\$	13	\$	27	\$		\$17,527
	_		_		_		_		_		_		_		
Project business															
Expected credit loss rate															
(Note b)	0	0%-5%		5%		10%		30%		50%		80%		100%	
Gross carrying amount	\$	3,869	\$	101	\$	12	\$	18	\$	1	\$	1	\$	287	\$ 4,289
Loss allowance (Lifetime															
ECL)		(3)		(17)		(1)		(5)		(1)		_		(287)	(314)
Amortized cost	\$	3,866	\$	84	\$	11	\$	13	\$		\$	1	\$		\$ 3,975

Note a: Please refer to Note 42 for the information of disaggregation of telecommunications service revenue. The expected credit loss rate applicable to different business revenue varies so as to reflect the risk level indicating by factors like historical experience.

Note b: The project business has different loss types according to the customer types. The expected credit loss rate listed above is for general customers. When the customer is a government-affiliated entity, it is anticipated that there will not be an instance of credit loss. Customers with past history of bounced checks or accounts receivable exceeding six months overdue are classified as high-risk customers, with an expected credit loss rate of 50%, increasing by period as the days overdue increase.

Movements of loss allowance for trade notes and accounts receivable were as follows:

	 Year Ended December 31							
	2022							
	NT\$							
	(In M	illions)						
Beginning balance	\$ 1,605	\$		1,365				
Add: Provision for credit loss	109			128				
Less: Amounts written off	(349)			(391)				
Ending balance	\$ 1,365	\$		1,102				

11. INVENTORIES

	December 31						
	2022		2023				
	NT\$		NT\$				
	(In Millions)						
Merchandise	\$ 3,978	\$	4,340				
Project in process	4,859		4,771				
Work in process	98		74				
Raw materials	279		221				
	9,214		9,406				
Land held under development	1,999		1,999				
Construction in progress	103		116				
	\$ 11,316	\$	11,521				

The operating costs related to inventories were \$51,180 million, \$49,544 million and \$53,814 million for the years ended December 31, 2021, 2022 and 2023, respectively.

For the years ended December 31, 2021, 2022 and 2023, valuation loss on inventories recognized as operating costs included the amounts of \$207 million, \$34 million and \$23 million, respectively.

As of December 31, 2022 and 2023, inventories of \$2,102 million and \$2,115 million, respectively, were expected to be realized from the sale after more than twelve months. The aforementioned amount of inventories is related to property development owned by LED.

Land held under development and construction in progress was mainly developed by LED for Qingshan Sec., Dayuan Dist., Taoyuan City project. The Board of Directors of LED resolved to sign a joint construction and separate sale contract with Farglory Land Development Co., Ltd. in June 2021. LED entrusts Land Bank of Taiwan to execute fund control and property right management for the land held under development.

12. PREPAYMENTS

	December 31					
	 2022		2023			
	 NT\$		NT\$			
	(In Millions)					
Prepaid rents	\$ 2,316	\$	2,143			
Prepayments for leases - satellite (Note 41)			1,729			
Others	 1,810		2,298			
	\$ 4,126	\$	6,170			
Current	 	_				
Prepaid rents	\$ 589	\$	581			
Others	1,809		2,259			
	\$ 2,398	\$	2,840			
Noncurrent	 					
Prepaid rents	\$ 1,727	\$	1,562			
Prepayments for leases - satellite (Note 41)	_		1,729			
Others	 1		39			
	\$ 1,728	\$	3,330			

Prepaid rents comprised the prepayments from the lease agreements applying the recognition exemption and the prepayments for leases that do not meet the definition of leases under IFRS 16.

13. OTHER CURRENT MONETARY ASSETS

	December 31						
	2022		2023				
	NT\$		NT\$				
	(In Millions)						
Time deposits, negotiable certificates of deposit and							
commercial paper with maturities of more than three months	\$ 1,916	\$	18,573				
Accrued custodial receipts	815		893				
Others	 888		886				
	\$ 3,619	\$	20,352				

The annual yield rates of time deposits, negotiable certificates of deposit and commercial paper with maturities of more than three months at the balance sheet dates were as follows:

	Decem	ber 31
	2022	2023
Time deposits, negotiable certificates of deposit and		
commercial paper with maturities of more than three months	0.03%-3.00%	0.03%-5.54%

14. SUBSIDIARIES

a. Information on subsidiaries with material noncontrolling interests

The table below shows details of less than wholly owned subsidiaries of the Company that have material noncontrolling interests:

Proportion of Ownership

	Place of	f Incorpo	oratio	on		Intere	sts l by	and Voti Noncon Interests	ng F trol	Rights	
		l Princip			_		De	December 31			
Subsidiaries	Place of Business					2022	2	202.		023	
SENAO		Taiwan				72%	Ď	729		2%	
CHPT	Taiwan					66%	66%			66%	
	Profit Allocated to Noncontrolling Interests							Accumulated Noncontrolling Interests			
	_	Year I	Ende	d Decen	ıber	31		Decen	31		
	_	2021	_	2022		2023		2022		2023	
		NT\$	I	NT\$		NT\$		NT\$		NT\$	
					(In I	Millions)					
SENAO	\$	421	\$	462	\$	510	\$	4,454	\$	4,533	
CHPT	\$	588	\$	496	\$	15		5,235		4,994	
Individually immaterial subsidiaries with noncontrolling interests	_							2,719		2,905	
<u> </u>							\$	12,408	\$	12,432	

Summarized financial information in respect of SENAO and its subsidiaries that has material noncontrolling interests is set out below. The summarized financial information below represented amounts before intercompany eliminations.

	 December 31					
	 2022		2023			
	NT\$					
	(In Mi	illions))			
Current assets	\$ 7,249	\$	6,540			
Noncurrent assets	\$ 3,053	\$	3,141			
Current liabilities	\$ 3,714	\$	2,982			
Noncurrent liabilities	\$ 460	\$	459			
Equity attributable to the parent	\$ 1,674	\$	1,707			
Equity attributable to noncontrolling interests	\$ 4,454	\$	4,533			

	Year Ended December 31						
		2021		2022		2023	
	NT\$		NT\$			NT\$	
			_ `	Millions)			
Revenues and income	\$	31,302	\$	31,602	\$	31,675	
Costs and expenses		30,715		30,958		30,964	
Profit for the year	\$	587	\$	644	\$	711	
Profit attributable to the parent	\$	166	\$	182	\$	201	
Profit attributable to noncontrolling interests		421		462		510	
Profit for the year	\$	587	\$	644	\$	711	
Other comprehensive income (loss) attributable to the parent	\$	2	\$	11	\$	(9)	
Other comprehensive income (loss) attributable to noncontrolling							
interests		5		26		(23)	
Other comprehensive income (loss) for the year	\$	7	\$	37	\$	(32)	
Total comprehensive income attributable to the parent	\$	168	\$	192	\$	192	
Total comprehensive income attributable to noncontrolling							
interests		426		488		487	
Total comprehensive income for the year	\$	594	\$	680	\$	679	
Net cash flow from operating activities	\$	654	\$	(329)	\$	1,146	
Net cash flow from investing activities		215		36		36	
Net cash flow from financing activities		(690)		(826)		(873)	
Effect of exchange rate changes on cash and cash equivalents		_		1		_	
Net cash inflow (outflow)	\$	179	\$	(1,118)	\$	309	
Dividends paid to noncontrolling interests	\$	278	\$	371	\$	408	
-							

Summarized financial information in respect of CHPT and its subsidiaries that has material noncontrolling interests is set out below. The summarized financial information below represented amounts before intercompany eliminations.

		December 31					
				2023			
				NT\$			
)					
Current assets	\$	4,406	\$	3,773			
Noncurrent assets	\$	4,631	\$	4,499			
Current liabilities	\$	1,087	\$	677			
Noncurrent liabilities	\$	26	\$	23			
Equity attributable to CHI	\$	2,689	\$	2,578			
Equity attributable to noncontrolling interests	\$	5,235	\$	4,994			

	Year Ended December 31						
		2021		2022		2023	
	NT\$					NT\$	
				Millions)			
Revenues and income	\$	4,254	\$	4,434	\$	2,941	
Costs and expenses		3,360		3,673		2,905	
Profit for the year	\$	894	\$	761	\$	36	
Profit attributable to CHI	\$	206	\$	265	\$	21	
	Э	306	Э	265	Ф	21	
Profit attributable to noncontrolling interests	Φ.	588	Φ.	496	Φ.	15	
Profit for the year	\$	894	<u>\$</u>	761	\$	36	
Other comprehensive income (loss) attributable to CHI	\$	(1)	\$	5	\$	(1)	
Other comprehensive income (loss) attributable to noncontrolling interests		(2)		7		(2)	
Other comprehensive income (loss) for the year	\$	(3)	\$	12	\$	(3)	
Total comprehensive income attributable to CHI	\$	305	\$	270	\$	20	
Total comprehensive income attributable to noncontrolling							
interests		586		503		13	
Total comprehensive income for the year	\$	891	\$	773	\$	33	
	•	1 000	Φ.		Φ.	22.5	
Net cash flow from operating activities	\$	1,090	\$	1,401	\$	325	
Net cash flow from investing activities		(519)		(1,011)		(244)	
Net cash flow from financing activities		(414)		(388)		(409)	
Effect of exchange rate changes on cash and cash equivalents	_	(1)	_	8	_	(2)	
Net cash inflow (outflow)	\$	156	\$	10	\$	(330)	
Dividends paid to noncontrolling interests	\$	259	\$	293	\$	253	
1	÷		÷		÷		

b. Equity transactions with noncontrolling interests

IISI purchased shares of UTC in August 2023. Therefore, the Company's ownership interest in UTC increased.

CHIEF issued new shares in March 2021, December 2021, March 2022, December 2022, and December 2023, as its employees exercised options. Therefore, the Company's ownership interest in CHIEF decreased to 58.67% and 58.63% as of December 31, 2022 and 2023, respectively. See Note 34(a) for details.

CHTSC issued new shares in February 2021, February 2022, May 2022, Feb 2023 and May 2023 as its employees exercised options. Therefore, the Company's ownership interest in CHTSC decreased to 73.09% and 69.28% as of December 31, 2022 and 2023. See Note 34(b) for details.

IISI issued new shares in January 2021 as its employees exercised options. Therefore, the Company's ownership interest in IISI decreased to 51.02%. See Note 34(c) for details.

CLPT issued new shares in May 2023 as its employees exercised options. Therefore, the Company's ownership interest in CLPT decreased to 74.56%. See Note 34(d) for details.

Chunghwa did not participate in the capital increase of CHST in November 2022. Therefore, the Company's ownership interest in CHST decreased.

The above transactions were accounted for as equity transactions since the Company did not cease to have control over these subsidiaries.

The detailed information of the equity transactions for the years ended December 31, 2021, 2022 and 2023 was as follows:

	Year Ended December 31, 2021							
	CHIEF Share-Based Payment NT\$		Based Share-Based ent Payment		Based Share- ent Payn S NT			
Cash consideration received from noncontrolling interests	\$	29	\$	21	\$	4		
The proportionate share of the carrying amount of the net assets of the subsidiary transferred to noncontrolling interests	•	(17)	•	(19)	•	(1)		
Differences arising from equity transactions	\$	12	\$	2	\$	3		
Line items for equity transaction adjustments								
Additional paid-in capital - arising from changes in equities of								
subsidiaries	\$	12	\$	2	\$	3		
		Year I	Ended I	December 31				
	Shar Pa	HIEF re-Based yment	Sha Pa	HTSC re-Based ayment	Prop Part Capi	nunghwa Not Not ortionately icipating in the tal Increase of CHST		
	I	NT\$		NT\$ Millions)		NT\$		
Cash consideration received from noncontrolling interests	\$	39	\$	35	\$	15		
The proportionate share of the carrying amount of the net assets								
of the subsidiary transferred to noncontrolling interests		(17)		(30)		(10)		
Differences arising from equity transactions	\$	22	\$	5	\$	5		
Line items for equity transaction adjustments								
Additional paid-in capital - arising from changes in equities of subsidiaries	\$	22	\$	5	<u>\$</u>	5		

	Year Ended December 31, 2023							
	Share Pay	HEF e-Based ment T\$	Sha	CHTSC are-Based Payment NT\$ (In Milli	S B Pa	CLPT hare- Based yment NT\$	P	urchasing UTC shares
Cash consideration received from (paid to) noncontrolling interests	\$	8	\$	15	\$	1	\$	_
The proportionate share of the carrying amount of the net assets of the subsidiary transferred from (to) noncontrolling interests		(2)		(13)		(1)		_
Differences arising from equity transactions	\$	6	\$	2	\$		\$	
Line items for equity transaction adjustments								
Additional paid-in capital - arising from the difference between the consideration received or paid and the carrying amount of the subsidiaries' net assets during actual disposal or acquisition	\$	_	\$	_	\$	_	\$	_
Additional paid-in capital - arising from changes in equities of								
subsidiaries	\$	6	\$	2	\$		\$	

Note: The proceeds from the new shares issued in February 2023 by CHTSC has been received in advance in December 2022.

15. INVESTMENTS ACCOUNTED FOR USING EQUITY METHOD

	 December 31				
	 2022	2023			
	 NT\$	NT\$			
	(In Millions)				
Investments in associates	\$ 6,939	\$	8,243		
Investment in joint venture	 10		9		
	\$ 6,949	\$	8,252		

a. Investments in associates

Investments in associates were as follows:

	Carrying Amount				
	December 31				
		2022		2023	
		NT\$ (In Mi	NT\$		
Material associate		(111 1411	illolis)		
Non-listed					
Next Commercial Bank Co., Ltd. ("NCB")	\$	3,173	\$	4,293	
Trent Committee Burni Con, Zoui (Trez)	Ψ	5,175	Ψ	.,_>	
Associates that are not individually material					
Listed					
Senao Networks, Inc. ("SNI")		1,235		1,409	
KingwayTek Technology Co., Ltd. ("KWT")		230		229	
Non-listed					
Viettel-CHT Co., Ltd. ("Viettel-CHT")		558		543	
Taiwan International Standard Electronics Co., Ltd. ("TISE")		293		309	
Chunghwa PChome Fund I Co., Ltd. ("CPFI")		275		258	
ST-2 Satellite Ventures Pte., Ltd. ("STS")		247		285	
So-net Entertainment Taiwan Limited ("So-net")		228		226	
WiAdvance Technology Corporation ("WATC")		228		212	
KKBOX Taiwan Co., Ltd. ("KKBOXTW")		172		165	
Taiwan International Ports Logistics Corporation ("TIPL")		100		120	
CHT Infinity Singapore Pte. Ltd. ("CISG")		63		57	
Click Force Co., Ltd. ("CF")		41		42	
Imedtac Co., Ltd. ("IME")		41		47	
AgriTalk Technology Inc. ("ATT")		35		31	
Baohwa Trust Co., Ltd. ("BHT")		13		10	
Cornerstone Ventures Co., Ltd. ("CVC")		7		7	
Alliance Digital Tech Co., Ltd. ("ADT")		<u> </u>		_	
	\$	6,939	\$	8,243	

The percentages of ownership interests and voting rights in associates held by the Company as of balance sheet dates were as follows:

	% of Ownership Interests and Voting Rights December 31		
	2022	2023	
Material associate			
Non-listed			
Next Commercial Bank Co., Ltd. ("NCB")	42	46	
Associates that are not individually material			
Listed			
Senao Networks, Inc. ("SNI")	34	34	
KingwayTek Technology Co., Ltd. ("KWT")	23	23	
Non-listed			
Viettel-CHT Co., Ltd. ("Viettel-CHT")	30	30	
Taiwan International Standard Electronics Co., Ltd. ("TISE")	40	40	
Chunghwa PChome Fund I Co., Ltd. ("CPFI")	50	50	
ST-2 Satellite Ventures Pte., Ltd. ("STS")	38	38	
So-net Entertainment Taiwan Limited ("So-net")	30	30	
WiAdvance Technology Corporation ("WATC")	20	19	
KKBOX Taiwan Co., Ltd. ("KKBOXTW")	30	30	
Taiwan International Ports Logistics Corporation ("TIPL")	27	27	
CHT Infinity Singapore Pte. Ltd. ("CISG")	40	40	
Click Force Co., Ltd. ("CF")	49	49	
Imedtac Co., Ltd. ("IME")	7	7	
AgriTalk Technology Inc. ("ATT")	29	29	
Baohwa Trust Co., Ltd. ("BHT")	40	25	
Cornerstone Ventures Co., Ltd. ("CVC")	49	49	
Alliance Digital Tech Co., Ltd. ("ADT")	_	_	

Summarized financial information of NCB was set out below:

	 December 31					
	2022	2023				
	NT\$		NT\$			
	(In Mil	llions)				
Assets	\$ 33,540	\$	37,431			
Liabilities	(25,882)		(28,084)			
Equity	\$ 7,658	\$	9,347			
The percentage of ownership interest held by the Company	41.90%		46.26%			
Equity attributable to the Company	\$ 3,209	\$	4,324			
Unrealized gain or loss from downstream transactions	(36)		(31)			
_						
The carrying amount of investment	\$ 3,173	\$	4,293			
3 8						

		Year Ended December 31							
		2021		2022		2023			
		NT\$	(I	NT\$ n Millions)		NT\$			
Net Revenues (losses)	<u>\$</u>	15	\$	(47)	\$	10			
Net loss for the period	\$	(446)	\$	(1,004)	\$	(969)			
Other comprehensive income (loss)				(10)		14			
Total comprehensive loss for the period	\$	(446)	\$	(1,014)	\$	(955)			

Except for NCB, no associate is considered individually material to the Company. Summarized financial information of associates that are not individually material to the Company was as follows:

	Year Ended December 31							
		2021 NT\$		2022 NTS		2023 NT\$		
		1110	(In	Millions)		1114		
The Company's share of profits	\$	607	\$	868	\$	647		
The Company's share of other comprehensive income (loss)		(6)		13		(23)		
The Company's share of total comprehensive income	\$	601	\$	881	\$	624		

The Level 1 fair values of associates based on the closing market prices as of the balance sheet dates were as follows:

	Dec	cember 31
	2022	2023
	NT\$	NT\$
	(In	Millions)
SNI	\$ 3,29	9 \$ 4,062
KWT	\$ 80	4 \$ 988

The Company invested and obtained 50% ownership interest in CPFI. However, as the Company has only two out of five seats of the Board of Directors of CPFI, the Company has no control but significant influence over CPFI. Therefore, the Company recognized CPFI as an investment in associate.

The Company invested and obtained 49% ownership interest in CVC. However, as the Company has only two out of five seats of the Board of Directors of CVC, the Company has no control but significant influence over CVC. Therefore, the Company recognized CVC as an investment in associate.

The Company invested \$56 million and obtained 40.00% ownership interest in CISG in June 2021. CISG mainly engages in investment business.

The Company owns 14% equity shares of ADT. Considering the seats that the Company controls in the Board of Directors of ADT and the relative size of ownership interest and the dispersion of shares owned by the other stockholders, the Company has significant influence over ADT. ADT completed its liquidation in August 2021. The Company received the liquidation distribution of \$9 million and recognized gain on disposal of \$4 million under "other gains and losses" on the consolidated statements of comprehensive income.

The Company originally invested and obtained 17.19% ownership interest in ATT and treated it as a financial asset at FVOCI. However, as the Company obtained one out of three seats of the Board of Directors of ATT in July 2021 and has significant influence over ATT, the Company reclassified it as an associate. The Company subscribed for all the shares in the capital increase of ATT at the price of \$32

million in November 2022. Therefore, the Company's ownership interest in ATT increased to 29.33% as of December 31, 2022.

STS reduces its capital in April 2022 and the Company received \$340 million from capital reduction. The Company's ownership interest in STS remained the same.

The Company invested and obtained 7.54% ownership interest in IME. The Company originally treated it as a financial asset at FVOCI. However, as the Company obtained one out of five seats of the Board of Directors of IME in August 2021 and has significant influence over IME, the Company reclassified it as an associate. IME issued new shares in December 2021 as its employees exercised options; therefore, the Company's ownership interest in IME decreased to 6.74% as of December 31, 2021. The Company increased its investment in IME proportionally at the price of \$11 million in December 2023, and the Company's ownership interest in IME remained the same. The Company invested and obtained 6.74% ownership interest in IME. However, as the Company continues to control one out of five seats of the Board of Directors of IME, the Company has significant influence over IME. Therefore, the Company recognized IME as an investment in associate.

The Company invested \$274 million and obtained 20.33% ownership interest by participating in the capital increase of WATC in March 2021.WATC issued new shares in March 2022, October 2022, April 2023, September 2023 and December 2023 as its employees exercised option. Therefore, the Company's ownership interest in WATC decreased to 20.05% and 19.22% as of December 31, 2022 and December 31, 2023, respectively. However, as the Company continues to control one out of three seats of the Board of Directors of WATC, the Company has significant influence over WATC. Therefore, the Company recognized WATC as an investment in associate.

The Company invested \$20 million and obtained 40.00% ownership interest in BHT in March 2022. BHT mainly engages in VR integration and AIoT security services. The Company did not participate in the capital increase of BHT in September 2023. Therefore, the Company's ownership interest in BHT decreased to 25.00% as of December 31, 2023.

The Company's ownership interest in NCB was originally 41.90%. NCB reduced 26.43% of its capital to offset accumulated deficits and increased its capital in December 2023. The Company increased its investment in NCB in higher proportion to the original shareholder percentage at the price of \$1,544 million. Therefore, the Company's ownership interest in NCB increased to 46.26% as of December 31, 2023. Although Chunghwa is the single largest stockholder of NCB, it only obtained six out of fifteen seats of the Board of Directors of NCB. In addition, the management considered the size of ownership interest and the dispersion of shares owned by the other stockholders, other holdings are not extremely dispersed. Chunghwa is not able to direct its relevant activities. Therefore, Chunghwa does not have control over NCB and merely has significant influence over NCB and treats it as an associate.

The Company's share of profits and other comprehensive income (loss) of associates was recognized based on the audited financial statements

b. Investment in joint venture

Investment in joint venture was as follows:

	C	arrying Am	ount	% of Own Interests an Righ	nd Voting	
		December	31	December 31		
Name of Joint Venture	20)22	2023	2022	2023	
Non-listed						
Chunghwa SEA Holdings ("CHT SEA")	\$	10 \$	9	51	51	

The Company invested and established a joint venture, CHT SEA, with Delta Electronics, Inc. and Kwang Hsing Industrial Co., Ltd. and obtained 51% ownership interest of CHT SEA. However, according to the mutual agreements among stockholders, the Company does not individually direct CHT SEA's relevant activities and has joint control with the other party; therefore, the Company treated CHT SEA as a joint venture.

The joint venture is not considered individually material to the Company. Summarized financial information of CHT SEA was set out below:

	Year Ended December 31							
	-	021 T\$	N	022 VT\$ Iillions)		2023 NT\$		
The Company's share of loss	\$		\$		\$			
The Company's share of other comprehensive								
income								
The Company's share of total comprehensive loss	\$		\$		\$	_		

The above amounts are less than one million and not zero.

16. PROPERTY, PLANT AND EQUIPMENT

	 December 31				
	2022	2023			
	 NT\$		NT\$		
	(In M	illions	s)		
Assets used by the Company	\$ 285,329	\$	285,085		
Assets subject to operating leases	 6,199		7,253		
	\$ 291,528	\$	292,338		

a. Assets used by the Company

	Land NT\$	<u>Im</u> r	Land provements NT\$	В	uildings NT\$	Computer quipment NT\$	_	Felecommunications Equipment NT\$ (In Million	_	Fransportation Equipment NT\$	_	Miscellaneous Equipment NT\$		Construction in Progress and Equipment to be Accepted NT\$	Total NT\$
Cost															
Balance on January 1, 2021 Additions	\$ 101,991	\$	1,630	\$	70,889 37	\$ 12,406 72	\$	710,776 84	\$	3,894	\$	10,300 198	\$	8,529 35,222	\$ 920,415 35,613
Disposal			(1)		(29)	(1,734)		(27,916)		(84)		(470)		33,222	(30,234)
Effect of foreign exchange differences	_		_		_	-		(64)		_		(2)		(6)	(72)
Others	654		33		461	473		30,654		117		783		(32,959)	216
Balance on December 31, 2021	\$ 102,645	\$	1,662	\$	71,358	\$ 11,217	\$	713,534	\$	3,927	\$	10,809	\$	10,786	\$ 925,938
Accumulated depreciation and impairment															
Balance on January 1, 2021	s –	\$	(1,399)	\$	(29,247)	\$ (10,639)	\$	(593,663)	\$	(3,718)	\$	(7,926)	\$	_	\$ (646,592)
Depreciation expenses			(43)		(1,401)	(716)		(24,802)		(65)		(701)			(27,728)
Disposal			(43)		(1,401)	1,724		27,900		84		466			30,204
Effect of foreign exchange differences	_		_		_			31		_		1		_	32
Others			(1)		41	(1)		1		_		(45)		_	(5)
Balance on December 31,															
2021	<u>s</u>	\$	(1,442)	\$	(30,578)	\$ (9,632)	\$	(590,533)	\$	(3,699)	\$	(8,205)	\$		\$ (644,089)
Balance on December 31,															
2021, net Cost	\$ 102,645	\$	220	\$	40,780	\$ 1,585	\$	123,001	\$	228	\$	2,604	\$	10,786	\$ 281,849
Balance on January 1, 2022	\$ 102,645	\$	1,662	\$	71,358	\$ 11,217	\$	713,534	\$	3,927	\$	10,809	\$	10,786	925,938
Additions	460		_		133	102		149		1		253		30,167	31,265
Disposal	(4)		(6)		(7)	(808)		(18,395)		(104)		(392)		_	(19,716)
Effect of foreign exchange differences	_		_		_	_		209		_		4		19	232
Others Balance on December	563		19		1,046	578	_	24,571	_	147	_	794	_	(26,545)	1,173
31, 2022	\$ 103,664	\$	1,675	\$	72,530	\$ 11,089	\$	720,068	\$	3,971	\$	11,468	\$	14,427	\$ 938,892

(Continued)

	Land Improvem NTS NTS		Buildings NT\$	Computer Equipment NT\$	Telecommunications Equipment NT\$ (In Millio	Eq	nsportation quipment NT\$	Miscellaneous Equipment NT\$	Construction in Progress and Equipment to be Accepted NT\$	Total NT\$
Accumulated					(111 1/1111)					
depreciation and impairment										
Balance on			0 (20 550)	d (0.522)	(500,522)		(2.500)			0 (511,000)
January 1, 2022 Depreciation	s –	\$ (1,442)	\$ (30,578)	\$ (9,632)	\$ (590,533)	\$	(3,699)	\$ (8,205) \$ —	\$ (644,089)
expenses	_	(39)	(1,452)	(725)	(25,654)		(77)	(754		(28,701)
Disposal		7	7	807	18,382		104	388	_	19,695
Effect of foreign exchange										
differences	_	_	_	_	(110)		_	(2	_	(112)
Others			(240)	(4)	(42)		(1)	(69		(356)
Balance on December 31,										
2022	s —	\$ (1,474)	\$ (32,263)	\$ (9,554)	\$ (597,957)	S	(3,673)	\$ (8,642) \$ —	\$ (653,563)
Balance on					(3.3)		(3,333)	(1)		
December 31,										
2022, net	\$ 103,664	\$ 201	\$ 40,267	\$ 1,535	\$ 122,111	\$	298	\$ 2,826	\$ 14,427	\$ 285,329
Cost										
Balance on January 1, 2023	\$ 103,664	\$ 1,675	\$ 72,530	\$ 11,089	\$ 720,068	\$	3,971	\$ 11,468	\$ 14,427	\$ 938,892
Additions	99	3 1,075	36	127	106	Φ	3,7/1	243	29,780	30,394
Disposal	(2)	_	(1)	(1,049)	(24,877)		(112)	(418) —	(26,459)
Effect of foreign exchange										
differences	_	_	_	_	(5)		_	(3	_	(8)
Others	(876)	34	(810)	878	26,143		188	801	(28,270)	(1,912)
Balance on										
December 31, 2023	\$ 102,885	\$ 1,709	\$ 71,755	\$ 11,045	\$ 721,435	9	4,050	\$ 12,091	\$ 15,937	\$ 940,907
Accumulated	\$ 102,005	<u> </u>	ψ /1,/ <i>33</i>	ψ 11,043	ÿ /21,433	9	4,030	ÿ 12,071	\$ 15,757	\$ 740,707
depreciation										
and impairment										
Balance on January 1, 2023	s —	\$ (1,474)	\$ (32,263)	\$ (9,554)	\$ (597,957)	\$	(3,673)	\$ (8,642) \$ —	\$ (653,563)
Depreciation	y .	(1,474)	\$ (32,203)	(),554)	(371,731)	Ψ	(3,073)	\$ (0,042	, ,	\$ (055,505)
expenses		(34)	(1,439)	(698)	(25,704)		(94)	(797	_	(28,766)
Disposal	_	=	_	1,049	24,867		113	411	_	26,440
Impairment losses Effect of foreign			_		(299)				_	(299)
exchange										
differences	_	_			5			1	_	6
Others Balance on			418	(18)	(43)		(1)	4		360
December 31,										
2023	<u>s </u>	\$ (1,508)	\$ (33,284)	\$ (9,221)	\$ (599,131)	\$	(3,655)	\$ (9,023) \$	\$ (655,822)
Balance on										
December 31, 2023, net	\$ 102,885	\$ 201	\$ 38,471	\$ 1,824	\$ 122,304	\$	395	\$ 3,068	\$ 15,937	\$ 285,085
2023, net	\$ 102,883	φ 201	3 30,4/1	φ 1,024	g 122,304	9	272	3,008	<u>\$ 13,937</u>	\$ 403,003

(Concluded)

Construction in

Chunghwa signed a joint development agreement with the MOTC previously which stated that the MOTC would provide the national land and Chunghwa would be in charge of the planning and construction for the MOTC's office building, Chunghwa's Renai office building, etc. According to the agreement, the MOTC and Chunghwa would each own a certain percentage of the buildings, and Chunghwa is to pay or get the reimbursement for the difference between the assessed value of the land and the construction cost paid by Chunghwa on behalf of the MOTC. The difference amounting to \$1,057 million due to the MOTC was reported to Chunghwa's Board of Directors in May 2020. Chunghwa paid the aforementioned amount in May 2021 and the property registration of the respective asset was completed in July 2021.

There was no indication that property, plant and equipment was impaired; therefore, the Company did not recognize any impairment loss for the years ended December 31, 2021 and 2022.

After the evaluation of certain telecommunications equipment, the Company determined that the recoverable amount of such assets was nil because the telecommunications service provided by 3G network will be discontinued in 2024; therefore, the Company recognized an impairment loss of \$299 million for the year ended December 31, 2023. The aforementioned impairment loss was included in other income and expenses in the statements of comprehensive income.

Depreciation expense for assets used by the Company is computed using the straight-line method over the following estimated service lives:

Land improvements	10-30 years
Buildings	
Main buildings	20-60 years
Other building facilities	3-15 years
Computer equipment	2-8 years
Telecommunications equipment	
Telecommunication circuits	2-30 years
Telecommunication machinery and antennas equipment	2-30 years
Transportation equipment	2-10 years
Miscellaneous equipment	
Leasehold improvements	1-18 years
Mechanical and air conditioner equipment	3-16 years
Others	1-15 years

b. Assets subject to operating leases

	 Land NT\$	_	Buildings NT\$ In Millions)		Total NT\$
Cost					
Balance on January 1, 2021	\$ 4,973	\$	4,236	\$	9,209
Others	 (164)	_	(102)		(266)
Balance on December 31, 2021	\$ 4,809	\$	4,134	\$	8,943
Accumulated depreciation and impairment					
Balance on January 1, 2021	\$ _	\$	(1,616)	\$	(1,616)
Depreciation expenses	_		(77)		(77)
Others	 	_	1	_	1
Balance on December 31, 2021	\$ 	\$	(1,692)	\$	(1,692)
Balance on December 31, 2021, net	\$ 4,809	\$	2,442	\$	7,251
Cost					
Balance on January 1, 2022	\$ 4,809	\$	4,134	\$	8,943
Additions	_		_		_
Others	 (433)	_	(949)		(1,382)
Balance on December 31, 2022	\$ 4,376	\$	3,185	\$	7,561
Accumulated depreciation and impairment					
Balance on January 1, 2022	\$ _	\$	(1,692)	\$	(1,692)
Depreciation expenses	_		(59)		(59)
Others			389		389
Balance on December 31, 2022	\$ 	\$	(1,362)	\$	(1,362)
Balance on December 31, 2022, net	\$ 4,376	\$	1,823	\$	6,199
Cost					
Balance on January 1, 2023	\$ 4,376	\$	3,185	\$	7,561
Additions	_		4		4
Others	 548		942		1,490
Balance on December 31, 2023	\$ 4,924	\$	4,131	\$	9,055
Accumulated depreciation and impairment					
Balance on January 1, 2023	\$ _	\$	(1,362)	\$	(1,362)
Depreciation expenses	_		(73)		(73)
Others	 		(367)		(367)
Balance on December 31, 2023	\$ 	\$	(1,802)	\$	(1,802)
Balance on December 31, 2023, net	\$ 4,924	\$	2,329	\$	7,253

The Company leases out land and buildings with lease terms between 1 to 20 years. The lessees do not have bargain purchase options to acquire the assets at the expiry of the lease periods.

The future aggregate lease collection under operating lease for the freehold plant, property and equipment was as follows:

	December 31		
	 2022		2023
	 NT\$ N		
	(In M	illions))
Year 1	\$ 389	\$	381
Year 2	281		279
Year 3	211		221
Year 4	177		176
Year 5	149		146
Onwards	1,122		1,025
	\$ 2,329	\$	2,228

The above items of property, plant and equipment subject to operating leases are depreciated on a straight-line basis over their estimated useful lives as follows:

Buildings	
Main buildings	35-60 years
Other building facilities	3-15 years

17. LEASE ARRANGEMENTS

a. Right-of-use assets

			December 31		
			2022		2023
			NT\$		NT\$
			(In M	illior	1s)
Land and buildings			·		
Handsets base stations		\$	7,175	\$	7,577
Others			1,727		1,754
Equipment			2,201		1,907
		\$	11,103	\$	11,238
			Ended Dece	mbei	r 31
	_	Year 2021 NT\$	Ended Dece 2022 NT\$	mbei	r 31 2023 NT\$
	=	2021	2022		2023
Additions to right-of-use assets	\$	2021	2022 NT\$	s)	2023
•	<u> </u>	2021 NT\$	2022 NT\$ (In Million	s)	2023 NT\$
Additions to right-of-use assets Depreciation charge for right-of-use assets Land and buildings	<u>\$</u>	2021 NT\$	2022 NT\$ (In Million	s)	2023 NT\$
Depreciation charge for right-of-use assets	<u>\$</u> \$	2021 NT\$	2022 NT\$ (In Million	s) 59	2023 NT\$
Depreciation charge for right-of-use assets Land and buildings	<u>*</u>	2021 NT\$ 4,669	2022 NT\$ (In Million \$ 4,36	s) 59	2023 NT\$ \$ 4,415
Depreciation charge for right-of-use assets Land and buildings Handsets base stations	<u>*</u>	2021 NT\$ 4,669	2022 NT\$ (In Million \$ 4,36 \$ 2,86 77	s) 69 53	2023 NT\$ \$ 4,415 \$ 2,939

Chunghwa entered into a contract with ST-2 Satellite Ventures Pte., Ltd. to lease capacity on the ST-2 satellite. However, certain frequency that ST-2 satellite originally used was transferred for the use of 5G spectrum to the government, Chunghwa evaluated and determined that the recoverable amount of the related right-of-use assets was nil. Therefore, Chunghwa recognized an impairment loss of \$420 million for the year ended December 31, 2021. The impairment loss was included under "other income and expenses" in the consolidated statement of comprehensive income. The Company did not have impairment of right-of-use assets for the years ended December 31, 2022 and 2023.

The Company did not have significant sublease of right-of-use assets for the years ended December 31, 2021, 2022 and 2023.

b. Lease liabilities

	 December 31			
	2022		2023	
	NT\$		NT\$	
	(In Millions)			
Lease liabilities				
Current	\$ 3,339	\$	3,505	
Noncurrent	7,334		7,470	
	\$ 10,673	\$	10,975	

Ranges of discount rates for lease liabilities were as follows:

	Decem	ber 31
	2022	2023
Land and buildings		
Handsets base stations	0.37%-1.71%	0.37%-1.84%
Others	0.37%-9.00%	0.37%-9.00%
Equipment	0.37%-2.99%	0.37%-3.50%

c. Important lease-in activities and terms

The Company mainly enters into lease-in agreements of land and buildings for handsets base stations located throughout Taiwan with lease terms ranging from 1 to 20 years. The lease agreements do not contain bargain purchase options to acquire the assets at the expiration of the respective leases. For majority of the lease-in agreements on handsets base station, the Company has the right to terminate the agreement prior to the expiration date if the Company is unable to build the required telecommunication equipment, either due to legal restrictions, controversial events, or other events.

The Company also leases land and buildings for the use of offices, server rooms, and stores with lease terms from 1 to 30 years. Most of the lease agreements for national land adjust the lease payment according to the changes of the announced land values by the authority. At the expiry of the lease term, the Company does not have bargain purchase options to acquire the assets.

The lease agreements for equipment include a contract between Chunghwa and ST-2 Satellite Ventures Pte., Ltd. to lease capacity on the ST-2 satellite. For the information of lease agreements with related parties, please refer to Note 39.

d. Other lease information

	Year Ended December 31					1
	2021			2022		2023
		NT\$		NT\$ Millions)		NT\$
Expenses relating to low-value asset leases	\$	8	\$	9	\$	9
Expenses relating to variable lease payments not included in						
the measurement of lease liabilities	\$	7	\$	8	\$	8
Total cash outflow for leases	\$	3,813	\$	3,869	\$	4,006

The Company leases certain equipment which qualifies as low-value asset leases. The Company has elected to apply the recognition exemption and, thus, not to recognize right-of-use assets and lease liabilities for these leases.

Lease-out arrangements under operating leases for freehold property, plant, and equipment and investment properties were set out in Notes 16 and 18.

18. INVESTMENT PROPERTIES

	December 31				
	2022		2023		
	NT\$		NT\$		
	(In M	Tillions)			
Carrying amount					
Investment properties	\$ 9,804	\$	9,805		
		Pro	estment operties NT\$ Millions)		
Cost			10.66		
Balance on January 1, 2021		\$	10,662		
Additions		φ.	10.662		
Balance on December 31, 2021		\$	10,663		
Accumulated depreciation and impairment		ф	(1.041)		
Balance on January 1, 2021		\$	(1,041)		
Depreciation expense			(42)		
Reversal of impairment loss		<u> </u>	(1,000)		
Balance on December 31, 2021		\$	(1,000)		
Balance on December 31, 2021, net		\$	9,663		
Cost			10.66		
Balance on January 1, 2022		\$	10,663		
Additions			18		
Reclassification		<u></u>	10.790		
Balance on December 31, 2022		\$	10,780		
Accumulated depreciation and impairment		¢.	(1,000)		
Balance on January 1, 2022		\$	(1,000)		
Depreciation expense Reversal of impairment loss			(44) 107		
Reclassification			(39)		
Balance on December 31, 2022		\$	(976)		
		\$	9,804		
Balance on December 31, 2022, net		<u> </u>	9,804		
Cost Polemon on January 1, 2022		¢.	10.700		
Balance on January 1, 2023 Additions		\$	10,780		
Reclassification			54 328		
Balance on December 31, 2023		\$	11,162		
		Ψ	11,102		
Accumulated depreciation and impairment Balance on January 1, 2023		\$	(976)		
Depreciation expense		Ф	(45)		
Impairment loss			(336)		
Balance on December 31, 2023		\$	(1,357)		
Balance on December 31, 2023, net		\$	9,805		
Darance on December 31, 2023, net		Ф	7,003		

After the evaluation of land and buildings by comparing the recoverable amount which represented the fair value less costs of disposal with the carrying amount, the Company recognized reversal of impairment losses of \$83 million and \$107 million for the years ended December 31, 2021 and 2022, respectively and an impairment loss of \$336 million for the year ended December 31, 2023. The impairment loss and the reversal of impairment loss were included in "other income and expenses" in the consolidated statements of comprehensive income.

Depreciation expense is computed using the straight-line method over the following estimated service lives:

Land improvements	10-30 years
Buildings	
Main buildings	35-60 years
Other building facilities	4-10 years

The fair values of the Company's investment properties as of December 31, 2022 and 2023 were determined by Level 3 fair value measurements inputs based on the appraisal reports conducted by independent appraisers. Those appraisal reports are based on the comparison approach, income approach or cost approach. Key assumptions and the fair values were as follows:

		December 31			
		2022 NT\$		2023	
				NT\$	
		(In Millions)			
Fair value	\$	\$ 25,328	\$	\$ 24,237	
Overall capital interest rate		1.31%-4.91%		1.43%-5.51%	
Profit margin ratio		8%-20%		10%-20%	
Discount rate					
Capitalization rate		0.23%-2.16%		0.23%-2.28%	

All of the Company's investment properties are held under freehold interest.

The future aggregate lease collection under operating lease for investment properties is as follows:

	 December 31		
	2022		2023
	 NT\$		
	(In M	illions)	
Year 1	\$ 118	\$	168
Year 2	99		157
Year 3	90		134
Year 4	70		105
Year 5	44		83
Onwards	149		435
	\$ 570	\$	1,082

19. INTANGIBLE ASSETS

	December 31			
	 2022		2023	
	NT\$			
	(In M	illion	s)	
Carrying amount				
Mobile Broadband Concession	\$ 78,150	\$	71,761	
Computer software	622		579	
Goodwill	217		217	
Others	 198		170	
	\$ 79,187	\$	72,727	

	Mobile Broadband <u>Concession</u> NT\$		Broadband Computer Software		Goodwill NT\$ (In Millions)		Others NT\$		_	Total NT\$
Cost										
Balance on January 1, 2021	\$	108,338	\$	3,320	\$	291	\$	392		112,341
Additions-acquired separately		_		225		_		31		256
Disposal		_		(344)		_		(10)		(354)
Effect of foreign exchange differences		_		_		_		_		_
Others		_		2		_		_		2
Balance on December 31, 2021	\$	108,338	\$	3,203	\$	291	\$	413	\$	112,245
Accumulated amortization and impairment							_		_	
Balance on January 1, 2021	\$	(19,319)	\$	(2,532)	\$	(45)	\$	(160)	\$	(22,056)
Amortization expenses	Ψ	(6,199)	Ψ	(341)	Ψ	_	Ψ	(29)	Ψ	(6,569)
Disposal		(0,1>>)		343		_		11		354
Impairment losses		_				(29)		_		(29)
Effect of foreign exchange differences		_		_		(_)		_		_
Others		_		_		_		_		_
Balance on December 31, 2021	\$	(25,518)	\$	(2,530)	\$	(74)	\$	(178)	\$	(28,300)
Balance on December 31, 2021, net	\$	82,820	\$	673	\$	217	\$	235	\$	83,945
Cost	=	02,020	_		=		=		<u></u>	00,7 .0
Balance on January 1, 2022	\$	108,338	\$	3,203	\$	291	\$	413	\$	112,245
Additions-acquired separately	Ψ	1,625	Ψ	257	Ψ		Ψ	11	Ψ	1,893
Disposal		1,023		(663)		_		(2)		(665)
Effect of foreign exchange differences		_		(005)		_		(<u>-</u>)		(003)
Others		_		1		_		_		1
Balance on December 31, 2022	\$	109,963	\$	2,798	\$	291	\$	422	\$	113,474
Accumulated amortization and impairment	_		_		_		_			
Balance on January 1, 2022	\$	(25,518)	\$	(2,530)	\$	(74)	\$	(178)	\$	(28,300)
Amortization expenses	-	(6,295)	-	(310)	-		-	(38)	-	(6,643)
Disposal		_		664		_		1		665
Impairment losses		_		_		_		(9)		(9)
Effect of foreign exchange differences		_		_		_		_		_
Others		_				_		_		_
Balance on December 31, 2022	\$	(31,813)	\$	(2,176)	\$	(74)	\$	(224)	\$	(34,287)
Balance on December 31, 2022, net	\$	78,150	\$	622	\$	217	\$	198	\$	79,187
Cost	=	70,100	=		=		=	170	=	77,107
Balance on January 1, 2023	\$	109,963	\$	2,798	\$	291	\$	422	\$	113,474
Additions-acquired separately	Ψ	107,703	Ψ	231	Ψ	271	Ψ	6	Ψ	237
Disposal				(499)				(6)		(505)
Effect of foreign exchange differences				(477)				(0)		(303)
Others		_		3		_				3
Balance on December 31, 2023	\$	109,963	\$	2,533	\$	291	\$	422	\$	113,209
Accumulated amortization and impairment	<u> </u>	107,702	Ψ	2,000	Ψ		Ψ_		_	110,207
Balance on January 1, 2023	\$	(31,813)	\$	(2,176)	\$	(74)	\$	(224)	\$	(34,287)
Amortization expenses	Ψ	(6,389)	Ψ	(276)	Ψ	(/+)	Ψ	(34)	Ψ	(6,699)
Disposal		(0,507)		499		_		6		505
Effect of foreign exchange differences				(1)		_		_		(1)
Others				(1) —						(1) —
Balance on December 31, 2023	\$	(38,202)	\$	(1,954)	\$	(74)	\$	(252)	\$	(40,482)
	\$		<u>•</u>		ф Ф					
Balance on December 31, 2023, net	\$	71,761	Э	579	Þ	217	\$	170	\$	72,727

Chunghwa's Board of Directors approved the acquisition of the 900MHz frequency band and equipment from Asia Pacific Telecom Co., Ltd. in November 2021. The aforementioned tax-excluded transaction amount was \$1,800 million included in intangible assets- mobile broadband concession and other assets- spare parts. The transaction was approved by the related authority in May 2022 and completed in July 2022.

The concessions are granted and issued by the National Communications Commission ("NCC"). The concession fees are amortized using the straight-line method over the period from the date operations commence through the date the license expires or the useful life, whichever is shorter. The 4G concession fees will be fully amortized by December 2030 and December 2033, and 5G concession fees will be fully amortized by December 2040.

The computer software is amortized using the straight-line method over the estimated useful lives of 1 to 10 years. Other intangible assets, except for those assessed as having indefinite useful lives, are amortized using the straight-line method over the estimated useful lives of 1 to 20 years. Goodwill is not amortized.

SENAO evaluated the goodwill, license agreement and the right of trademark that arose in the acquisition of Youth and its subsidiaries at the end of each year. Due to the competition in the industrial environment, the gross profit margin decreased. SENAO determined the smallest identifiable group of assets that generates cash inflows as single cash generating units by business type and evaluated the recoverable amount of those cash generating units by their value in use. The management of SENAO estimated the cash flow projections based on the financial budgets for the following five years. Discount rate was 12.1% as of December 31, 2021, and was used to calculate the recoverable amount of related cash generating units by discounting aforementioned cash flows.

SENAO concluded the recoverable amount of the goodwill was lower than the carrying value and recognized impairment loss of \$29 million for the year ended December 31, 2021. In addition, SENAO concluded the recoverable amounts of the license agreement and the right of trademark were lower than the carrying amounts and recognized impairment loss of \$0.2 million and \$9 million for the year ended December 31, 2021 and 2022, respectively. The aforementioned impairment losses were included in other income and expenses in the consolidated statements of comprehensive income. The recoverable amount of license agreement and right of trademark was measured at the fair value less costs of disposal. The fair value was calculated based on asset approach by reference to the net assets value of Youth. The Company did not recognize any impairment loss on intangible assets for the year ended December 31, 2023.

20. OTHER ASSETS

	December 31			
	2022	2023		
	NT\$		NT\$	
	(In Millions)			
Spare parts	\$ 3,380	\$	2,233	
Refundable deposits	1,964		1,995	
Other financial assets	1,000		1,000	
Others	 1,916		2,223	
	\$ 8,260	\$	7,451	
Current	 			
Spare parts	\$ 3,380	\$	2,233	
Others	175		589	
	\$ 3,555	\$	2,822	
Noncurrent				
Refundable deposits	\$ 1,964	\$	1,995	
Other financial assets	1,000		1,000	
Others	1,741		1,634	
	\$ 4,705	\$	4,629	

Other financial assets - noncurrent was Piping Fund. As part of the government's effort to upgrade the existing telecommunications infrastructure, Chunghwa and other public utility companies were required by the

ROC government to contribute to a Piping Fund administered by the Taipei City Government. This fund was used to finance various telecommunications infrastructure projects. Net assets of this fund will be returned proportionately after the project is completed.

21. HEDGING FINANCIAL INSTRUMENTS

Chunghwa's hedge strategy is to enter into forward exchange contracts - buy to avoid its foreign currency exposure to certain foreign currency denominated equipment payments in the following six months. In addition, Chunghwa's management considers the market condition to determine the hedge ratio and enters into forward exchange contracts with the banks to avoid the foreign currency risk.

Chunghwa signed equipment purchase contracts with suppliers and entered into forward exchange contracts to avoid foreign currency risk exposure to Euro-denominated purchase commitments. Those forward exchange contracts were designated as cash flow hedges. When forecast purchases actually take place, basis adjustments are made to the initial carrying amounts of hedged items.

For the hedges of highly probable forecast sales and purchases, as the critical terms (i.e. the notional amount, life and underlying) of the forward foreign exchange contracts and their corresponding hedged items are the same, the Company performs a qualitative assessment of effectiveness and it is expected that the value of the forward contracts and the value of the corresponding hedged items will systematically change in opposite direction in response to movements in the underlying exchange rates.

The main source of hedge ineffectiveness in these hedging relationships is the effect of credit risks of the Company and the counterparty on the fair value of the forward exchange contracts. Such credit risks do not impact the fair value of the hedged item attributable to changes in foreign exchange rates. No other sources of ineffectiveness emerged from these hedging relationships.

The following tables summarized the information relating to the hedges for foreign currency risk.

December 31, 2021

contracts

Hedging Instruments	Currency	Notional Amount (In Millions)	Maturity	Forward Rate	Line Item in Balance Sheet	Carry Asset NTS	ing Amount Liability NTS (In Millions)	Change in Fair Values of Hedging Instruments Used for Calculating Hedge Ineffectiveness NTS
Cash flow hedge Forecast purchases - forward exchange contracts	NT\$/EUR	NT\$ 228/ EUR 7	March 2022	\$ 32.5	4 Hedging financial assets (liabilities)	\$ -	- \$ 8	\$ (10)
		Ite	n Value of H em Used for ulating Hedg	J		ng Instrumer	Gain or Loss on to its in Other E Hedge Aco	
Hedged Iter	ns	Ine	NT\$		Hedg NTS (In Milli	3		Applied T\$
Cash flow hedge					(,		
Forecast equipment p	urchases	\$		10	\$	(8)	\$	_
December 31,	2022							Change in Fair Values of Hedging Instruments Used for
		Notional		Forward	Line Item in		ng Amount	Calculating Hedge
Hedging Instruments	Currency	Amount (In Millions)	Maturity	Rate	Balance Sheet	Asset NT\$	Liability NT\$	Ineffectiveness NT\$
Cash flow hedge Forecast purchases - forward exchange contracts	NT\$/EUR	NT\$ 423/ EUR 13	March 2023	\$ 31.69	9 Hedging financial assets (liabilities)	\$ 13	(In Millions)	\$ 21
		Change in	n Value of H	edged	Ac	cumulated G	Sain or Loss o	on
			em Used for				its in Other E	
		Calc	ulating Hedg	ge	Continu			counting No
Hedged Iter	ns	Ine	effectiveness		Hedg		Longer	Applied
			NT\$		NTS		N	T\$
0 1 0 1 1					(In Mill	ions)		
Cash flow hedge		¢.		(21)	¢.	12	¢.	
Forecast equipment p	urcnases	\$		(21)	\$	13	\$	_
December 31,	2023	N		Po.				Change in Fair Values of Hedging Instruments Used for Calculating
Hedging Instruments	Currency	Notional Amount (In Millions)	Maturity	Forward Rate	Line Item in Balance Sheet	Asset NT\$	ng Amount Liability NTS (In Millions)	Hedge Ineffectiveness NT\$
Cash flow hedge Forecast purchases - forward exchange contracts	NT\$/EUR	NT\$ 24/ EUR 1	March 2024	\$ 33.88	8 Hedging financial assets (liabilities)	s –	- s —	\$ (13)

		Change in Value of He Item Used for Calculating Hedge	Не	Accumulated Gain or Loss on Hedging Instruments in Other Equ Continuing Hedge According		
Hedged	l Items	Ineffectiveness		ledges	ledge Accounting No Longer Applied	
		NT\$		NT\$ Millions)	NT\$	
ash flow hedge			(111)	viiiions)		
Forecast equipme	ent purchases \$		13 \$	_ \$	-	
Year ende	d December 31, 202	<u>1</u>				
		Comprehensive Income			nity to Assets and the Adjusto	
Hedge	Hedging Gain or Loss Recognized	Amount of Hedge Ineffectiveness Recognized in	Line Item in Which Hedge Ineffectiveness	Amount Reclassified to Assets and the Adjusted	Due to Hedged Futur Cash Flows No Longer Expected	
Transaction	in OCI NT\$	Profit or Loss NT\$	is Included NT\$	Line Item NT\$	to Occur NT\$	
sh flow hedge			(In Millions)			
orecast equipment						
urchases	\$ (10)	\$ —	_	\$ (43 Construction in progress and equipment to be	Other gains and losses	
				accepted		
Hedge Transaction	Hedging Gain or Loss Recognized in OCI NTS	Comprehensive Income Amount of Hedge Ineffectiveness Recognized in Profit or Loss NT\$	Line Item in Which Hedge Ineffectiveness is Included NTS (In Millions)	Amount Reclassified to Assets and the Adjusted Line Item NT\$	Due to Hedged Futur Cash Flows No Longer Expected to Occur NTS	
h flow hedge			(In Millions)			
recast quipment						
		\$ —	_	\$ 6		
	\$ 21			Construction in progress and equipment to be accepted	Other gains and losses	
Year ender	d December 31, 202. Hedging Gain or Loss Recognized	Comprehensive Income Amount of Hedge Ineffectiveness Recognized in	Line Item in Which Hedge Ineffectiveness is Included	Reclassification from Equ Lin Amount Reclassified to Assets and the Adjusted	iity to Assets and the Adjust ne Item Due to Hedged Futur Cash Flows No Longer Expected	
Year ended	d December 31, 2022	Comprehensive Income Amount of Hedge Ineffectiveness	Ineffectiveness is Included NT\$	Reclassification from Equ Lit Amount Reclassified to Assets and	ity to Assets and the Adjust ne Item Due to Hedged Futur Cash Flows No	
Year ended Hedge Transaction	d December 31, 202. Hedging Gain or Loss Recognized in OCI	Comprehensive Income Amount of Hedge Ineffectiveness Recognized in Profit or Loss	Ineffectiveness is Included	Reclassification from Equ Lin Amount Reclassified to Assets and the Adjusted Line Item	nity to Assets and the Adjust ne Item Due to Hedged Futun Cash Flows No Longer Expected to Occur	
Year ended Hedge Transaction h flow hedge recast	d December 31, 202. Hedging Gain or Loss Recognized in OCI	Comprehensive Income Amount of Hedge Ineffectiveness Recognized in Profit or Loss	Ineffectiveness is Included NT\$	Reclassification from Equ Lin Amount Reclassified to Assets and the Adjusted Line Item	nity to Assets and the Adjust ne Item Due to Hedged Futun Cash Flows No Longer Expected to Occur	
Year ended Hedge Transaction n flow hedge recast quipment	d December 31, 202. Hedging Gain or Loss Recognized in OCI	Comprehensive Income Amount of Hedge Ineffectiveness Recognized in Profit or Loss NTS	Ineffectiveness is Included NT\$	Reclassification from Equ Lit Amount Reclassified to Assets and the Adjusted Line Item NT\$	nity to Assets and the Adjust ne Item Due to Hedged Futur Cash Flows No Longer Expected to Occur NTS	
Year ended Hedge Transaction h flow hedge recast quipment	d December 31, 202. Hedging Gain or Loss Recognized in OCI NTS	Comprehensive Income Amount of Hedge Ineffectiveness Recognized in Profit or Loss NTS	Ineffectiveness is Included NT\$	Reclassification from Equ Lin Amount Reclassified to Assets and the Adjusted Line Item	ity to Assets and the Adjust ne Item Due to Hedged Futur Cash Flows No Longer Expected to Occur NTS	
Year ended Hedge Transaction h flow hedge recast quipment urchases	d December 31, 202. Hedging Gain or Loss Recognized in OCI NTS	Comprehensive Income Amount of Hedge Ineffectiveness Recognized in Profit or Loss NTS	Ineffectiveness is Included NT\$	Reclassification from Equ Lin Amount Reclassified to Assets and the Adjusted Line Item NTS S Construction in progress and equipment to be	nity to Assets and the Adjust ne Item Due to Hedged Futur Cash Flows No Longer Expected to Occur NTS	
Year ended Hedge Transaction h flow hedge recast quipment urchases	d December 31, 202; Hedging Gain or Loss Recognized in OCI NTS \$ (13)	Comprehensive Income Amount of Hedge Ineffectiveness Recognized in Profit or Loss NTS	Ineffectiveness is Included NT\$	Reclassification from Equ Lin Amount Reclassified to Assets and the Adjusted Line Item NTS \$ 37 Construction in progress and equipment to be accepted	nity to Assets and the Adjust ne Item Due to Hedged Futur Cash Flows No Longer Expected to Occur NTS	
Year ended Hedge Transaction h flow hedge recast quipment urchases	d December 31, 202; Hedging Gain or Loss Recognized in OCI NTS \$ (13)	Comprehensive Income Amount of Hedge Ineffectiveness Recognized in Profit or Loss NTS	Ineffectiveness is Included NT\$	Reclassification from Equ Lin Amount Reclassified to Assets and the Adjusted Line Item NTS \$ 37 Construction in progress and equipment to be accepted	Due to Hedged Futur Cash Flows No Longer Expected to Occur NTS S Other gains and losses	
Year ended Hedge Transaction h flow hedge recast quipment urchases	d December 31, 202; Hedging Gain or Loss Recognized in OCI NTS \$ (13)	Comprehensive Income Amount of Hedge Ineffectiveness Recognized in Profit or Loss NTS	Ineffectiveness is Included NT\$	Reclassification from Equ Lin Amount Reclassified to Assets and the Adjusted Line Item NT\$ S Construction in progress and equipment to be accepted	Due to Hedged Futur Cash Flows No Longer Expected to Occur NTS S Other gains and losses	
Year ended Hedge Transaction h flow hedge recast quipment urchases	d December 31, 202; Hedging Gain or Loss Recognized in OCI NTS \$ (13)	Comprehensive Income Amount of Hedge Ineffectiveness Recognized in Profit or Loss NTS	Ineffectiveness is Included NT\$	Reclassification from Equ Lin Amount Reclassified to Assets and the Adjusted Line Item NTS \$ 37 Construction in progress and equipment to be accepted Deccel 2022 NT\$	Due to Hedged Futur Cash Flows No Longer Expected to Occur NTS S Other gains and losses mber 31 2023	

The annual interest rates of bank loans were as follows:

	Decem	ber 31
	2022	2023
Unsecured bank loans	1.30%-3.19%	2.16%-3.36%

23. LONG-TERM LOANS

	D	December 31			
	2022		2023		
	NT\$		NT\$		
	(In Million	ns)		
Secured bank loans (Note 40)	\$ 1,	600 \$	1,600		
Less: Current portion		_	(1,600)		
	\$ 1,	600	_		

The annual interest rates of bank loans were as follows:

	Decem	ber 31
	2022	2023
Secured bank loans	1.80%	1.87%

LED obtained a secured loan from Chang Hwa Bank with monthly interest payments. The contract will be due in September 2024.

24. BONDS PAYABLE

	December 31				
	2022		2023		
	 NT\$		NT\$		
	(In Millions)				
Unsecured domestic bonds	\$ 30,500	\$	30,500		
Less: Discounts on bonds payable	 (23)		(17)		
	\$ 30,477	\$	30,483		

The major terms of unsecured domestic bonds issued by Chunghwa were as follows:

Issuance	Tranche	Issuance Period	Total Amount	Coupon Rate	Repayment and Interest Payment
2020-1	A	July 2020 to July 2025	\$ 8,800	0.50%	One-time repayment upon maturity; interest payable annually
	В	July 2020 to July 2027	7,500	0.54%	The same as above
	C	July 2020 to July 2030	3,700	0.59%	The same as above
2021-1	A	April 2021 to April 2026	1,900	0.42%	The same as above
	В	April 2021 to April 2028	4,100	0.46%	The same as above
	C	April 2021 to April 2031	1,000	0.50%	The same as above
2022-1 (Sustainable Bond)	_	March 2022 to March 2027	3,500	0.69%	The same as above

25. TRADE NOTES AND ACCOUNTS PAYABLE

	December 31			
	2022		2023	
	NT\$ N		NT\$	
	(In Millions)			
Trade notes and accounts payable	\$ 16,429	\$	14,396	

Trade notes and accounts payable were attributable to operating activities and the trading conditions were agreed separately.

26. OTHER PAYABLES

	December 31			
	<u> </u>	2022		2023
		NT\$		NT\$
		(In Mi	illions)
Accrued salary and compensation	\$	10,409	\$	10,441
Accrued compensation to employees and remuneration to directors and				
supervisors		2,144		2,108
Payables to contractors		2,571		1,990
Amounts collected for others		1,596		1,544
Accrued maintenance costs		1,061		1,316
Payables to equipment suppliers		1,279		1,311
Others		6,020		6,547
	\$	25,080	\$	25,257

27. PROVISIONS

		December 31			
		2022		2023	
		NT\$ NT			
		(In Mi	llions)		
Employee benefits	\$	65	\$	387	
Warranties		235		238	
Onerous contracts		95		194	
Others		4		3	
	\$	399	\$	822	
					
Current	\$	226	\$	337	
Noncurrent		173		485	
	\$	399	\$	822	

	Employee Benefits NT\$		Warranties NT\$		Onerous Contracts NT\$ (In Millions)		Others NT\$		_	Total NT\$
Balance on January 1, 2021	\$	57	\$	182	\$	171	\$	5	\$	415
Additional / (reversal of) provisions recognized	•	7		102	•	(24)		(1)		84
Used / forfeited during the year		(1)		(71)						(72)
Effect of foreign exchange differences		_				_		_		
Balance on December 31, 2021	\$	63	\$	213	\$	147	\$	4	\$	427
			_		_		Ť		_	
Balance on January 1, 2022	\$	63	\$	213	\$	147	\$	4	\$	427
Additional / (reversal of) provisions recognized		2		108		(52)		_		58
Used / forfeited during the year		_		(86)				_		(86)
Effect of foreign exchange differences		_		_		_		_		_
Balance on December 31, 2022	\$	65	\$	235	\$	95	\$	4	\$	399
			_		_		_		_	
Balance on January 1, 2023	\$	65	\$	235	\$	95	\$	4	\$	399
Additional / (reversal of) provisions recognized		323		69		49		(1)		440
Used / forfeited during the year		(1)		(66)		_				(67)
Reclassification				_		50				50
Effect of foreign exchange differences		_		_		_		_		_
Balance on December 31, 2023	\$	387	\$	238	\$	194	\$	3	\$	822

- a. The provision for warranty claims represents the present value of the management's best estimate of the future outflow of economic benefits that will be required under the Company's obligation for warranties in sales agreements. The estimate has been made based on historical warranty experience.
- b. The provision for employee benefits represents vested long-term service compensation accrued.
- c. The provision for onerous contracts represents the present obligation resulting from the measurement for the unavoidable costs of meeting the Company's contractual obligations exceed the economic benefits expected to be received from the contracts.

28. RETIREMENT BENEFIT PLANS

a. Defined contribution plans

The pension plan under the Labor Pension Act of ROC (the "LPA") is considered as a defined contribution plan. Based on the LPA, Chunghwa and its domestic subsidiaries make monthly contributions to employees' individual pension accounts at 6% of monthly salaries and wages. Its foreign subsidiaries would make monthly contributions based on the local pension requirements.

b. Defined benefit plans

Chunghwa completed its privatization plans on August 12, 2005. Chunghwa is required to pay all accrued pension obligations including service clearance payment, lump sum payment under civil service plan, additional separation payments, etc. upon the completion of the privatization in accordance with the Statute Governing Privatization of Stated-owned Enterprises. After paying all pension obligations for privatization, the plan assets of Chunghwa should be transferred to the Fund for Privatization of Government-owned Enterprises (the "Privatization Fund") under the Executive Yuan. On August 7, 2006, Chunghwa transferred the remaining balance of fund to the Privatization Fund. However, according to the instructions of MOTC, Chunghwa was requested to administer the distributions to employees for pension obligations including service clearance payment, lump sum payment under civil service plan, additional separation payments, etc. upon the completion of the privatization and recognized in other current monetary assets.

Chunghwa and its subsidiaries SENAO, CHIEF, CHSI, SHE, IISI and UTC with the pension mechanism under the Labor Standards Law in the ROC are considered as defined benefit plans. These

pension plans provide benefits based on an employee's length of service and average six-month salary prior to retirement. Chunghwa and its subsidiaries contribute an amount no more than 15% of salaries paid each month to their respective pension funds (the Funds), which are administered by the Labor Pension Fund Supervisory Committee (the Committee) and deposited in the names of the Committees in the Bank of Taiwan. The plan assets are held in a commingled fund which is operated and managed by the government's designated authorities; as such, the Company does not have any right to intervene in the investments of the funds. According to the Article 56 of the Labor Standards Law in the ROC, entities are required to contribute the difference in one appropriation to their pension funds before the end of next March when the balance of the Funds is insufficient to pay the eligible employees who meet the retirement criteria in the following year.

The amounts included in the consolidated balance sheets arising from the Company's obligation in respect of its defined benefit plans were as follows:

	December 31				
		2022		2023	
		(In Mi	llion	s)	
Present value of funded defined benefit obligations	\$	33,599	\$	30,313	
Fair value of plan assets		(36,580)		(34,178)	
Funded status - surplus	\$	(2,981)	\$	(3,865)	
Net defined benefit liabilities	\$	2,285	\$	2,098	
Net defined benefit assets		(5,266)		(5,963)	
	\$	(2,981)	\$	(3,865)	

Movements in the defined benefit obligations and the fair value of plan assets were as follows:

	Present Value of Funded Defined Benefit Fair Value of Obligations NT\$ NT\$ (In Millions)			Net Defined Benefit Liabilities (Assets) NT\$
Balance on January 1, 2021	\$	39,536	\$ 39,494	\$ 42
Current service cost		1,253	_	1,253
Interest expense/interest income		190	195	(5)
Amounts recognized in profit or loss		1,443	195	1,248
Remeasurement on the net defined benefit liability				
Return on plan assets (excluding amounts included in net interest)		_	501	(501)
Actuarial gain recognized from changes in demographic assumptions		(434)	_	(434)
Actuarial loss recognized from experience adjustments		545		545
Amounts recognized in other comprehensive income		111	501	(390)
Contributions from employer			1,727	(1,727)
Benefits paid		(5,312)	(5,312)	_
Benefits paid directly by the Company		(276)		(276)
Balance on December 31, 2021		35,502	36,605	(1,103)
Current service cost		1,085	_	1,085
Interest expense/interest income		171	181	(10)
Amounts recognized in profit or loss		1,256	181	1,075
Remeasurement on the net defined benefit liability				
Return on plan assets (excluding amounts				
included in net interest)			2,968	(2,968)
Actuarial loss recognized from changes in				
demographic assumptions		208	_	208
Actuarial loss recognized from experience adjustments		1,606		1,606
Amounts recognized in other comprehensive income		1,814	2,968	(1,154)
Contributions from employer			1,555	(1,555)
Benefits paid		(4,729)	(4,729)	_
Benefits paid directly by the Company		(244)		(244)
Balance on December 31, 2022		33,599	36,580	(2,981)
Current service cost		1,006	_	1,006
Loss on settlements		1	_	1
Interest expense/interest income		403	452	(49)
Amounts recognized in profit or loss		1,410	452	958
Remeasurement on the net defined benefit liability				
Return on plan assets (excluding amounts				
included in net interest)		_	309	(309)
Actuarial gain recognized from changes in				
financial assumptions		(100)	_	(100)
Actuarial loss recognized from experience adjustments		252		252
Amounts recognized in other comprehensive income		152	309	(157)
Contributions from employer		_	1,386	(1,386)
Benefits paid		(4,549)	(4,549)	_
Benefits paid directly by the Company		(299)		(299)
Balance on December 31, 2023	\$	30,313	\$ 34,178	<u>\$ (3,865)</u>

Relevant pension costs recognized in profit and loss for defined benefit plans were as follows:

	Year Ended December 31																			
	2021			2022		2023														
	NT\$ NT\$		NT\$ NT\$		NT\$ NT\$		NT\$ NT\$		NT\$ NT\$		NT\$		NT\$		NT\$		NT\$ NT\$		\$ N	
			(In	Millions)																
Operating costs	\$	725	\$	565	\$	488														
Marketing expenses		367		360		334														
General and administrative expenses		80		86		78														
Research and development expenses		44		37		35														
	\$	1,216	\$	1,048	\$	935														

The Company is exposed to following risks for the defined benefits plans under the Labor Standards Law in the ROC:

a. Investment risk

Under the Labor Standards Law in the ROC, the rate of return on assets shall not be lower than the average interest rate on a two-year time deposit published by the local banks and the government is responsible for any shortfall in the event that the rate of return is less than the required rate of return. The plan assets are held in a commingled fund mainly invested in foreign and domestic equity and debt securities and bank deposits which is operated and managed by the government's designated authorities; as such, the Company does not have any right to intervene in the investments of the funds.

b. Interest rate risk

The decline in government bond interest rate will increase the present value of the obligation on the defined benefit plan, while the return on plan assets will increase. The net effect on the present value of the obligation on defined benefit plan is partially offset by the return on plan assets.

c. Salary risk

The calculation of the present value of defined benefit obligations is referred to the plan participants' future salary. Hence, the increase in plan participants' salary will increase the present value of the defined benefit obligations.

The most recent actuarial valuation of plan assets and the present value of the defined benefit obligations were carried out by the independent actuary.

The principal assumptions used for the purpose of the actuarial valuations were as follows:

	Measurer	nent Date
	Decem	ber 31
	2022	2023
Discount rates	1.25%	1.25%
Expected rates of salary increase	1.00%-2.25%	1.00%-2.25%

If reasonably possible changes of the respective significant actuarial assumptions occur at the end of reporting periods, while holding all other assumptions constant, the present values of the defined benefit obligations would increase (decrease) as follows:

	December 31				
	2022		2023		
	NT\$		NT\$		
	(In Millions)				
Discount rates					
0.5% increase	\$ (996)	\$	(880)		
0.5% decrease	\$ 1,056	\$	932		
Expected rates of salary increase	 				
0.5% increase	\$ 1,130	\$	1,000		
0.5% decrease	\$ (1,075)	\$	(953)		

The sensitivity analysis presented above may not be representative of the actual change in the present value of the defined benefit obligations as it is unlikely that the change in assumptions would occur in isolation of one another as some of the assumptions may be correlated.

Furthermore, in presenting the above sensitivity analysis, the present value of the defined benefit obligations has been calculated using the projected unit credit method at the end of the reporting period, which is the same as that applied in calculating the defined benefit obligation liability recognized in the consolidated balance sheets.

There is no change in the methods and assumptions used in preparing the sensitivity analysis from the previous period.

	December 31					
	2022		2023			
	NT\$		NT\$			
	(1	(In Millions)				
The expected contributions to the plan for the next						
year	<u>\$</u> 1,	542 \$	1,355			
The average duration of the defined benefit obligations	6.2-11 year	rs <u>6</u> .	1-10years			

As of December 31, 2023, the Company's maturity analysis of the undiscounted benefit payments was as follows:

Year	 Amount NT\$ (In Millions)
2024	\$ 2,538
2025	5,863
2026	8,865
2027	10,051
2028 and thereafter	34,869
	\$ 62,186

29. EQUITY

- a. Share capital
 - 1) Common stocks

	December 31					
	2022			2023		
	NT\$			NT\$		
		(In M	Iillio	ns)		
Number of authorized shares		12,000	_	12,000		
Authorized shares	\$	120,000	\$	120,000		
Number of issued and paid shares		7,757		7,757		
Issued and outstanding shares	\$	77,574	\$	77,574		

Each issued common stock with par value of \$10 is entitled the right to vote and receive dividends.

2) Global depositary receipts

The MOTC and some stockholders sold some common stocks of Chunghwa in an international offering of securities in the form of American Depositary Shares ("ADS") (one ADS represents 10 common stocks) in July 2003, August 2005, and September 2006. The ADSs were traded on the New York Stock Exchange since July 17, 2003. As of December 31, 2023, the outstanding ADSs were 187 million common stocks, which equaled 19 million units and represented 2.41% of Chunghwa's total outstanding common stocks.

The ADS holders generally have the same rights and obligations as other common stockholders, subject to the provision of relevant laws. The exercise of such rights and obligations shall comply with the related regulations and deposit agreement, which stipulate, among other things, that ADS holders are entitled to, through deposit agents:

- a) Exercise their voting rights,
- b) Sell their ADSs, and
- c) Receive dividends declared and subscribe to the issuance of new shares.

b. Additional paid-in capital

The adjustments of additional paid-in capital for the years ended December 31, 2021, 2022 and 2023 were as follows:

	Share Premium NT\$	m Method Subsidiaries Acquisition C		Donated Capital NT\$	Stockholders' Contribution Due to Privatization NT\$	_	Total NT\$			
Balance on January 1, 2021	\$ 126,045	\$	_	\$	2,089	\$ 987	\$ 21	\$ 20,648	\$	149,790
Unclaimed dividend			_			_	2	! —		2
Change in additional paid-in capital from investments in associates and joint ventures accounted for using equity method	_		1		_	_	_	_		1
Share-based payment transactions of										
subsidiaries					17				_	17
Balance on December 31, 2021	\$ 126,045	\$	1	\$	2,106	\$ 987	\$ 23	\$ 20,648	\$	149,810
Balance on January 1, 2022	\$ 126.045	S	1	\$	2,106	\$ 987	\$ 23	\$ 20,648	\$	149,810
Unclaimed dividend	ψ 120,015 —	Ψ		Ψ	2,100	ψ <i>)</i> 07	2		Ψ	2
Change in additional paid-in capital for not proportionately participating in the capital increase of subsidiaries	_		_		5	_	_	_		5
Share-based payment transactions of					5					J
subsidiaries	_		_		27	_	_			27
Balance on December 31, 2022	\$ 126,045	\$	1	\$	2,138	\$ 987	\$ 25	\$ 20,648	\$	
	· ,	<u> </u>		_	,			,	_	.,-
Balance on January 1, 2023	\$ 126,045	\$	1	\$	2,138	\$ 987	\$ 25		\$,,
Unclaimed dividend	_		_			_	2	. —		2
Change in additional paid-in capital from investments in associates and joint ventures accounted for using equity method	_		(26)		_	_	_	_		(26)
Actual acquisition of interests in subsidiaries	_				_	_	_	_		
Share-based payment transactions of subsidiaries	_		_		8	_	_	_		8
Balance on December 31, 2023	\$ 126,045	\$	(25)	\$	2,146	\$ 987	\$ 27	\$ 20,648	\$	

Under the R.O.C. relevant laws, additional paid-in capital from share premium, donated capital and the difference between consideration received or paid and the carrying amount of the subsidiaries' net assets during actual disposal or acquisition may be utilized to offset deficits. Furthermore, when Chunghwa has no deficit, it may be distributed in cash or capitalized, which however is limited to a certain percentage of Chunghwa's paid-in capital except the additional paid-in capital arising from unclaimed dividend can only be utilized to offset deficits.

The additional paid-in capital from movements of paid-in capital arising from changes in equities of subsidiaries may only be utilized to offset deficits.

Among additional paid-in capital from movements of investments in associates and joint ventures accounted for using equity method, the portion arising from the difference between consideration received or paid and the carrying amount of the subsidiaries' net assets during actual disposal or acquisition may be utilized to offset deficits; furthermore, when the Company has no deficit, it may be distributed in cash or capitalized. However, other additional paid-in capital recognized in proportion of share ownership may only be utilized to offset deficits.

c. Retained earnings and dividends policy

In accordance with the Chunghwa's Articles of Incorporation, Chunghwa must pay all outstanding taxes, offset deficits in prior years and set aside a legal reserve equal to 10% of its net income before distributing a dividend or making any other distribution to stockholders, except when the accumulated amount of such legal reserve equals to Chunghwa's total issued capital, and depending on its business needs or requirements, may also set aside or reverse special reserves. No less than 50% of the remaining earnings comprising remaining balance of net income, if any, plus cumulative undistributed earnings shall be distributed as stockholders' dividends, of which cash dividends to be distributed shall not be less than 50% of the total amount of dividends to be distributed. If cash dividend to be distributed is less than \$0.10 per share, such cash dividend shall be distributed in the form of common stocks.

Special reserve was appropriated in accordance with the relevant laws and regulations or as requested by local authority. Pursuant to existing regulations, the Company should appropriate a special reserve when the net amount of other equity items is negative at the end of reporting period upon the earnings distribution. Distributions can be made out of any subsequent reversal of the debit to other equity items.

The appropriation for legal reserve shall be made until the accumulated reserve equals the aggregate par value of the outstanding capital stock of Chunghwa. This reserve can only be used to offset a deficit, or when the legal reserve has exceeded 25% of Chunghwa's paid-in capital, the excess may be transferred to capital or distributed in cash.

The appropriations of the 2021 and 2022 earnings of Chunghwa approved by the stockholders in their meetings on May 27, 2022 and May 26, 2023, respectively, were as follows:

	A	Appropriation of Earnings				Dividends (N	Per S T\$)	Share		
		For Fiscal Year 2021								
Provision for (reversal of) special reserve	\$	408	\$	(185)						
Cash dividends		35,746		36,476	\$	4.608	\$	4.702		

The appropriations of earnings for 2023 had been proposed by Chunghwa's Board of Directors on February 23, 2024. The appropriations and dividends per share were as follows:

	Appropriation <u>of Earnings</u>	Dividends Per Share (NT\$)
Reversal of special reserve	\$ (223)	
Cash dividends	36,910	\$ 4.758

The appropriations of earnings for 2023 are subject to the resolution of the stockholders' meeting planned to be held on May 31, 2024.

d. Others

- Exchange differences arising from the translation of the foreign operations
 The exchange differences arising from the translation of the foreign operations from their functional currency to New Taiwan dollars were recognized as exchange differences arising from the translation of the foreign operations in other comprehensive income.
- 2) Unrealized gain or loss on financial assets at FVOCI

	Year Ended December 31						
	2021		2022	2023			
		NT\$	NT\$ (In Millions)	NT\$			
Beginning balance	\$	1,240	\$ (8)	\$ (125)			
Unrealized gain or loss for the year							
Equity instruments		(1,188)	(111)	641			
Share of loss of associates and joint ventures accounted for using							
equity method			(6)	5			
Transferred accumulated gain or loss to unappropriated earnings resulting from the disposal of equity							
instruments (Note 9)		(60)					
Ending balance	\$	(8)	\$ (125)	\$ 521			

e. Noncontrolling interests

	Year Ended December 31						
		2021 2022			2023		
		NT\$		NT\$ Millions)		NT\$	
Beginning balance	\$	11,158	\$	11,747	\$	12,408	
Attributable to noncontrolling interests							
Net income for the year		1,431		1,511		1,103	
Exchange differences arising from the translation of the							
foreign operations				21		2	
Unrealized gain or loss on financial assets at FVOCI		2		(25)		(22)	
Remeasurements of defined benefit pension plans		(5)		24		12	
Income tax relating to remeasurements of defined benefit							
pension plans		1		(5)		(2)	
Share of other comprehensive loss of associates and							
joint ventures accounted for using equity method				5		(21)	
Cash dividends distributed by subsidiaries		(896)		(1,053)		(1,092)	
Actual acquisition of interests in subsidiaries				_			
Share-based payment transactions of subsidiaries		56		62		25	
Change in additional paid-in capital for not proportionately							
participating in the capital increase of subsidiaries				10			
Net increase in noncontrolling interests				111		19	
Ending balance	\$	11,747	\$	12,408	\$	12,432	

30. REVENUE

	Year Ended December 31							
		2021		2022		2023		
		NT\$	Œ	NT\$		NT\$		
	Φ.		(1)	n Millions)	Φ.			
Revenue from contracts with customers	\$	208,412	\$	214,498	\$	220,190		
Other revenues								
Government grants income		1,037		1,030		1,704		
Rental income		864		1,022		1,120		
Others		165		189		185		
		2,066		2,241		3,009		
Total	\$	210,478	\$	216,739	\$	223,199		

For the information of performance obligations related to customer contracts, please refer to Note 3 Summary of Material Accounting Policy Information for details.

a. Disaggregation of revenue

Please refer to Note 42 Segment Information for details.

b. Contract balances

		January 1,		Decem	ber 31			
		2022				2022		2023
		NT\$		NT\$		NT\$		
	•	22 24=		n Millions)	Φ.	21012		
Trade notes and accounts receivable (Note 10)	\$	23,947	\$	24,672	\$	24,842		
Contract assets								
Products and service bundling	\$	7,197	\$	7,956	\$	9,297		
Others		983		1,256		1,206		
Less : Loss allowance		(18)		(19)		(21)		
	\$	8,162	\$	9,193	\$	10,482		
Current	\$	5,554	\$	6,056	\$	6,713		
Noncurrent		2,608		3,137		3,769		
	\$	8,162	\$	9,193	\$	10,482		
Contract liabilities	_							
Telecommunications business	\$	13,144	\$	14,081	\$	14,016		
Project business		5,435		6,586		6,654		
Advance land receipts (Note 41)						460		
Others		495		397		518		
	\$	19,074	\$	21,064	\$	21,648		
Current	\$	12,234	\$	13,390	\$	14,088		
Noncurrent		6,840		7,674		7,560		
	\$	19,074	\$	21,064	\$	21,648		

The changes in the contract asset and the contract liability balances primarily result from the timing difference between the satisfaction of performance obligations and the payments collected from customers. Significant changes of contract assets and liabilities recognized resulting from product and service bundling were as follows:

	2021		2021 2022		2022		2023
	NT\$	NT\$ (In Millions)			NT\$		
\$	6,035	\$	6,933	\$	7,961		
	(6,039)		(6,149)		(6,574)		
\$	(4)	\$	784	\$	1,387		
\$		\$	9	\$	187		
	(12)		(5)		(173)		
\$	(12)	\$	4	\$	14		
	<u>\$</u>	\$ 6,035 (6,039) \$ (4) \$ — (12)	\$ 6,035 \$ (6,039) \$ (4) \$ \$ \$ (12)	2021 2022 NT\$ NT\$ (In Millions)	NT\$ NT\$ (In Millions)		

The Company applies the simplified approach to recognize expected credit losses prescribed by IFRS 9, which permits the use of lifetime expected loss provision for receivables. Contract assets will be reclassified to trade receivables when the corresponding invoice is billed to the client. Contract assets have substantially the same risk characteristics as the trade receivables of the same types of contracts. Therefore, the Company concluded that the expected loss rates for trade receivables can be applied to the contract assets.

Revenue recognized for the year that was included in the contract liability at the beginning of the year was as follows:

		Year Ended December 31						
		2021 NT\$		2021		2022		2023
				NT\$ (In Millions)		NT\$		
			(111					
Telecommunications business	\$	5,952	\$	6,626	\$	6,660		
Project business		4,630		4,067		5,290		
Others		431		440		540		
	\$	11,013	\$	11,133	\$	12,490		

c. Incremental costs of obtaining contracts

	December 31						
20	022		2023				
N	NT\$ N						
	(In Mi	llions)					
\$		\$	211				
\$	980	\$	939				
	-	2022 NT\$ (In Mi	2022 NT\$ (In Millions) \$ \$				

The Company considered the past experience and the default clauses in the telecommunications service contracts and believes the commissions and equipment subsidies paid for obtaining such contracts are expected to be recoverable; therefore, such costs were capitalized. LED also believes the commissions paid for obtaining real estate sale contracts are expected to be recoverable; therefore, such costs were capitalized and classified as current by the operating cycle. Amortization expenses for the years ended December 31 2021, 2022 and 2023 were \$815 million, \$841 million and \$856 million, respectively.

d. Remaining Performance Obligations

As of December 31, 2023, the aggregate amount of transaction price allocated to performance obligations for non-cancellable telecommunications service contracts that are unsatisfied is \$35,179 million. The Company recognizes revenue when service is provided over contract terms. The Company expects to recognize such revenue of \$21,181 million, \$10,812 million and \$3,185 million in 2024, 2025 and 2026, respectively. The variable consideration collected from customers on nonrecurring basis resulting from exceeded usage from monthly fee and revenue recognized for contracts that the Company has a right to consideration from customers in the amount corresponding directly with the value to the customers of the Company's performance completed to date have been excluded from the disclosure of remaining performance obligations.

As of December 31, 2023, the aggregate amount of transaction price allocated to performance obligations for non-cancellable project business contracts that are unsatisfied is \$26,593 million. The Company recognizes revenues when the project business contract is completed and accepted by customers. The Company expects to recognize such revenue of \$8,600 million, \$7,331 million and \$10,663 million in 2024, 2025 and 2026, respectively. Project business contracts whose expected duration are less than a year have been excluded from the aforementioned disclosure.

31. NET INCOME

a. Other income and expenses

	Year Ended December 31						
	2021		2022	2023			
		NT\$	NT\$ (In Millions)	NT\$			
Loss on disposal of property, plant and equipment	\$	(3)	\$ (5)	\$ —			
Impairment loss on right-of-use assets		(420)	_				
Impairment loss on property, plant and equipment		_	_	(299)			
Reversal of impairment loss (impairment loss) on investment							
properties		83	107	(336)			
Impairment loss on intangible assets		(29)	(9)				
	\$	(369)	\$ 93	\$ (635)			

b. Other income

		Year Ended December 31							
		2021	2022			2023			
	NT\$		NT\$			NT\$			
			(In I	Millions)					
Dividend income	\$	154	\$	157	\$	167			
Rental income		70		79		76			
Others		154		133		139			
	\$	378	\$	369	\$	382			

c. Other gains and losses

	2021 NT\$			2022 NT\$ (In Millions)	_	2023 NT\$
Valuation gain (loss) on financial assets and liabilities						
at fair value through profit or loss, net	\$	243	\$	(206)	\$	(98)
Foreign currency exchange gain or loss, net		230		(185)		(116)
Gain (loss) on disposal of investments accounted for using						
equity method, net		4		(14)		6
Gain on disposal of financial instruments, net				1		_
Others		(16)		(14)		(71)
	\$	461	\$	(418)	\$	(279)

d. Interest expenses

		Year Ended December 31							
		2021		2021 2022		2022		2023	
	NT\$			NT\$		NT\$			
			(In	Millions)					
Interest on bonds payable	\$	132	\$	161	\$	168			
Interest on lease liabilities		69		75		105			
Interest paid to financial institutions		16		26		44			
Others		1		1		2			
	\$	218	\$	263	\$	319			

e. Impairment loss (reversal of impairment loss)

	Year Ended December 31						
	2021		2022			2023	
		NT\$		NT\$		NT\$	
			(I	n Millions)			
Contract assets	\$		\$	1	\$	2	
Trade notes and accounts receivable	\$	123	\$	109	\$	128	
Other receivables	\$	20	\$	7	\$	22	
Inventories	\$	207	\$	34	\$	23	
Right-of-use assets	\$	420	\$		\$		
Property, plant and equipment	\$	_	\$	_	\$	299	
Investment properties	\$	(83)	\$	(107)	\$	336	
Intangible assets	\$	29	\$	9	\$		

f. Depreciation and amortization expenses

		Year Ended December 31					
	2021		2022			2023	
		NT\$		NT\$		NT\$	
			_	n Millions)			
Property, plant and equipment	\$	27,805	\$	28,760	\$	28,839	
Right-of-use assets		3,985		3,982		4,072	
Investment properties		42		44		45	
Intangible assets		6,569		6,643		6,699	
Incremental costs of obtaining contracts		815		841		856	
Total depreciation and amortization expenses	\$	39,216	\$	40,270	\$	40,511	
Depreciation expenses summarized by functions							
Operating costs	\$	30,021	\$	30,735	\$	30,874	
Operating expenses		1,811		2,051		2,082	
	\$	31,832	\$	32,786	\$	32,956	
Amortization expenses summarized by functions							
Operating costs	\$	7,172	\$	7,286	\$	7,370	
Marketing expenses		93		77		70	
General and administrative expenses		75		71		68	
Research and development expenses		44		50		47	
	\$	7,384	\$	7,484	\$	7,555	

g. Employee benefit expenses

	Year Ended December 31					
	2021 NT\$		2022 NT\$ (In Millions)			2023
						NT\$
Post-employment benefit						
Defined contribution plans	\$	784	\$	862	\$	963
Defined benefit plans		1,216		1,048		935
		2,000		1,910		1,898
Share-based payment						_
Equity-settled share-based payment		19		16		8
Other employee benefit (Note)		42,654		43,746		44,305
Total employee benefit expenses	\$	44,673	\$	45,672	\$	46,211
Summary by functions						
Operating costs	\$	22,734	\$	21,857	\$	21,858
Operating expenses		21,939		23,815		24,353
	\$	44,673	\$	45,672	\$	46,211

Note: Other employee benefit mainly includes salaries, compensation and labor and health insurance expenses, etc.

Chunghwa distributes employees' compensation at the rates from 1.7% to 4.3% and remuneration to directors not higher than 0.17%, respectively, of pre-tax income. As of December 31, 2023, the payables of the employees' compensation and the remuneration to directors were \$1,522 million and \$40 million, respectively. Such amounts have been approved by the Chunghwa's Board of Directors on February 23, 2024 and will be reported to the stockholders in their meeting planned to be held on May 31, 2024.

If there is a change in the proposed amounts after the annual consolidated financial statements are authorized for issue, the difference is recorded as a change in accounting estimate.

The compensation to the employees and remuneration to the directors of 2021 and 2022 approved by the Board of Directors on February 23, 2022 and February 24, 2023, respectively, were as follows:

	20	21		2022
	Ca	sh		Cash
	- N	Γ\$		NT\$
		(In Mi	llions)	
Compensation distributed to the employees	\$	1,429	\$	1,498
Remuneration paid to the directors		39		39

There was no difference between the initial accrual amounts recognized in 2021 and 2022 and the amounts proposed in the Board of Directors in 2022 and 2023 of the aforementioned compensation to employees and the remuneration to directors.

32. INCOME TAX

a. Income tax recognized in profit or loss

The major components of income tax expense were as follows:

		Year Ended December 31					
		2021 NT\$		2021 2022			2023
				NT\$		NT\$	
			(In	n Millions)			
Current tax							
Current tax expenses recognized for the year	\$	8,490	\$	8,863	\$	8,875	
Income tax on unappropriated earnings		181		137		(31)	
Income tax adjustments on prior years		(150)		(141)		(128)	
Others		7		7		4	
		8,528		8,866		8,720	
Deferred tax		_					
Deferred tax expense recognized for the year		489		318		218	
Income tax adjustments on prior years		3		151		9	
		492		469		227	
Income tax recognized in profit or loss	\$	9,020	\$	9,335	\$	8,947	

Reconciliation of accounting profit and income tax expense was as follows:

	Year Ended December 31					
	2021		2022			2023
	NT\$		NT\$			NT\$
			(In	Millions)		
Income before income tax	\$	46,067	\$	47,204	\$	47,008
Income tax expense calculated at the statutory rate	\$	9,213	\$	9,441	\$	9,401
Nondeductible income and expenses in determining						
taxable income		8		(20)		28
Tax-exempt income		(30)		(3)		(9)
Income tax on unappropriated earnings		181		137		(31)
Investment credits		(217)		(207)		(209)
Effect of different tax rates of group entities operating in						
other jurisdictions		(10)		(31)		(7)
Income tax adjustments on prior years		(147)		10		(119)
Others		22		8		(107)
Income tax expense recognized in profit or loss	\$	9,020	\$	9,335	\$	8,947

The applicable tax rate used by the entities subject to the Income Tax Act of the Republic of China is 20%. Tax rates used by other entities of the Company operating in other jurisdictions are based on the tax laws in those jurisdictions.

b. Income tax recognized in other comprehensive income

	Year Ended December 31							
	2021 NT\$.22			
						NT\$		
Deferred tax								
Remeasurement on defined benefit pension plans	\$	78	\$	231	\$	31		

c. Current tax assets and liabilities

	December 31			
	2022			2023
	NT\$ NT			NT\$
		(In Mi	llions)	
Current tax assets				
Tax refund receivable (included in other current assets - others)	\$	2	\$	4
Current tax liabilities				
Income tax payable	\$	6,999	\$	6,613

d. Deferred income tax assets and liabilities

The movements of deferred income tax assets and liabilities were as follows:

	January 1, 2021 NT\$		Recognized in Profit or Loss NT\$		Recognized in Other Comprehensive Income NT\$	December 31, 2021 NT\$
Deferred income tax assets						
Temporary differences						
Defined benefit pension plans	\$	1,816	\$	6	\$ (78)	\$ 1,744
Allowance for doubtful receivables						
over quota		365		(100)		265
Valuation loss on inventory		299		(102)	_	197
Seniority bonus		4		1	_	5
Impairment loss on assets		4		(4)	_	_
Estimated warranty liabilities		36		7	_	43
Valuation loss on financial assets		33		(33)	_	_
Valuation loss on onerous contracts		34		(8)		26
Accrued award credits liabilities		18		(9)	_	9
Deferred revenue		73		(24)	_	49
Share of profit or loss of associates						
and joint ventures accounted for						
using equity method		401		_	_	401
Unrealized foreign exchange loss, net		5		(3)	_	2
Others		25		8	_	33
		3,113		(261)	(78)	2,774
Loss carryforwards		20		(9)		11
,	\$	3,133	\$	(270)	\$ (78)	\$ 2,785
	<u> </u>	3,100	=	(270)	<u> </u>	<u> </u>
Defermed in come tou lightilities						
Deferred income tax liabilities Temporary differences						
	\$	(1,812)	¢	(157)	¢	\$ (1,969)
Defined benefit pension plans Land value incremental tax	Э		Ф	(157)	5 —	
Deferred revenue for award credits		(95)		(25)	_	(95)
		(30)		(25)		(55)
Intangible assets		(27)		(27)	_	(24)
Unrealized foreign exchange gain, net Others		(2)		(27)	_	(27)
Others	<u></u>	(1.067)	Φ.	(16)	<u> </u>	(19)
	\$	(1,967)	\$	(222)	<u> </u>	\$ (2,189)

	January 1, 		_	Recognized in Profit or Loss NT\$ (In Mi	Co	Recognized in Other imprehensive Income NT\$		December 31, 2022 NT\$
Deferred income tax assets								
Temporary differences								
Defined benefit pension plans	\$	1,744	\$	1	\$	(231)	\$	1,514
Allowance for doubtful receivables								
over quota		265		(81)		_		184
Valuation loss on inventory		197		(92)		_		105
Seniority bonus		5						5
Impairment loss on assets		_		_		_		_
Estimated warranty liabilities		43		4		_		47
Valuation loss on financial assets		_		24		_		24
Valuation loss on onerous contracts		26		(8)		_		18
Accrued award credits liabilities		9		3		_		12
Deferred revenue		49		(19)		_		30
Share of profit or loss of associates and joint ventures accounted for								
using equity method		401		(399)		_		2
Unrealized foreign exchange loss, net		2		56		_		58
Others		33		(5)		_		28
		2,774		(516)		(231)		2,027
Loss carryforwards		11		159		· —		170
•	\$	2,785	\$	(357)	\$	(231)	\$	2,197
	_	<u> </u>						
Deferred income tax liabilities								
Temporary differences								
Defined benefit pension plans	\$	(1,969)	\$	(145)	\$	_	\$	(2,114)
Land value incremental tax	4	(95)	Ψ	(1 ie)	Ψ	_	4	(95)
Deferred revenue for award credits		(55)		(15)		_		(70)
Intangible assets		(24)		4		_		(20)
Unrealized foreign exchange gain, net		(27)		26		_		(1)
Others		(19)		18		<u> </u>		(1)
	\$	(2,189)	\$	(112)	\$	_	\$	(2,301)

		January 1, 2023		Recognized in Profit or Loss		Recognized in Other omprehensive Income		December 31, 2023
		NT\$		NT\$	NT\$ Millions)			NT\$
Deferred income tax assets				(111 111)	mons	•,		
Temporary differences								
Defined benefit pension plans	\$	1,514	\$	1	\$	(31)	\$	1,484
Allowance for doubtful receivables						, ,		
over quota		184		(41)				143
Valuation loss on inventory		105		(29)		_		76
Seniority bonus		5		64				69
Impairment loss on assets		_		60		_		60
Estimated warranty liabilities		47		1				48
Valuation loss on financial assets		24		21		_		45
Valuation loss on onerous contracts		18		19				37
Accrued award credits liabilities		12		5		_		17
Deferred revenue		30		(15)				15
Share of profit or loss of associates and joint								
ventures accounted for								
using equity method		2		6		_		8
Unrealized foreign exchange loss, net		58		(55)		_		3
Others	_	28		(3)				25
		2,027		34		(31)		2,030
Loss carryforwards		170		(101)		<u> </u>		69
	\$	2,197	\$	(67)	\$	(31)	\$	2,099
Deferred income tax liabilities								
Temporary differences								
Defined benefit pension plans	\$	(2,114)	\$	(146)	\$		\$	(2,260)
Land value incremental tax		(95)		`—		_		(95)
Deferred revenue for award credits		(70)		4				(66)
Intangible assets		(20)		2		_		(18)
Unrealized foreign exchange gain, net		(1)		(11)				(12)
Others		(1)		(9)		_		(10)
	\$	(2,301)	\$	(160)	\$		\$	(2,461)

e. Items for which no deferred income tax assets have been recognized

		December 31		
	202		2023	
	NT		NT\$	
I and annual desired		(In Millions)		
Loss carryforwards				
Expire in 2023	\$	— \$		
Expire in 2024		1	1	
Expire in 2025		15	15	
Expire in 2026		8	8	
Expire in 2027		3	3	
Expire in 2028		1	1	
Expire in 2029		1	1	
Expire in 2030		_	_	
Expire in 2031				
Expire in 2032			5	
Expire in 2033			13	
	\$	29 \$	47	
Investment credits - research and development expenditures				
Expire in 2025	\$	— \$	8	
1				
Deductible temporary differences	\$	13 \$	10	
=	¥	 	10	

f. Information about unused investment credits and loss carryforwards

As of December 31, 2023, information about unused investment credits - research and development expenditures was as follows:

Remaining Creditable Amount		Expiry Year
NT\$ (In Millions)		
\$	8	2025

As of December 31, 2023, information about unused loss carryforwards was as follows:

Remaining Creditable Amount		Expiry Year
NT\$ (In Millions)		
\$	1	2024
	18	2025
	10	2026
	3	2027
	1	2028
	2	2029
	1	2030
	1	2031
	63	2032
	16	2033
\$	116	

g. Income tax examinations

Income tax returns of Chunghwa have been examined by the tax authorities through 2021, except for 2020. Income tax returns of CHYP, CHSI, CHST, SENAO, ISPOT, Youth, Youyi, Aval, Wiin, SENYOUNG, Senaolife, CHI, CHPT, CHIEF, Unigate, SFD, SHE, CLPT, CHTSC, LED, HHI, IISI and UTC have been examined by the tax authorities through 2021.

h. Pillar Two Model Rules

The application of the Pillar Two rules does not have a material impact on the Company's consolidated financial statements. The Company will continue to review the possible impact on the Company's future financial performance.

33. EARNINGS PER SHARE

Net income and weighted average number of common stocks used in the calculation of earnings per share were as follows:

Net Income

	Year Ended December 31					
		2021		2022		2023
		NT\$		NT\$		NT\$
			(I	n Millions)		
Net income used to compute the basic earnings						
per share						
Net income attributable to the parent	\$	35,616	\$	36,358	\$	36,958
Assumed conversion of all dilutive potential						
common stocks						
Employee stock options and employee compensation						
of subsidiaries		(6)		(7)		(5)
Net income used to compute the diluted earnings						
per share	\$	35,610	\$	36,351	\$	36,953

Weighted Average Number of Common Stocks

			(Millions Shares)
	Yea	r Ended December 3	31
	2021	2022	2023
Weighted average number of common stocks used			
to compute the basic earnings per share	7,757	7,757	7,757
Assumed conversion of all dilutive potential			
common stocks			
Employee compensation	8	8	8
Weighted average number of common stocks used			
to compute the diluted earnings per share	7,765	7,765	7,765

As Chunghwa may settle the employee compensation in shares or cash, Chunghwa shall presume that it will be settled in shares and take those shares into consideration when calculating the weighted average number of outstanding shares used in the calculation of diluted EPS if the shares have a dilutive effect. The dilutive effect of the shares needs to be considered until the approval of the number of shares to be distributed to employees as compensation in the following year.

34. SHARE-BASED PAYMENT ARRANGEMENT

a. CHIEF share-based compensation plan ("CHIEF Plan") described as follows:

Effective Date	Grant Date	Stock Options Units	Exercise Price NT\$
2017.12.18	2017.12.19	950.00	\$124.70 (Original price\$147.00)
	2018.10.31	50.00	\$130.30 (Original price\$147.00)
2020.09.16	2020.11.13	200.00	\$171.70 (Original price\$206.00)

Each option is eligible to subscribe for one thousand common stocks when exercisable. The options are granted to specific employees that meet the vesting conditions. The CHIEF Plan has an exercise price adjustment formula upon the changes in common stocks or distribution of cash dividends. The options of the CHIEF Plan are valid for five years and the graded vesting schedule will vest two years after the grant date.

The Board of Directors of CHIEF resolved to issue stock options on October 26, 2020 and authorized the chairman to decide the grant date. Afterwards, the grant date was decided as November 13, 2020.

The compensation costs for stock options for the years ended December 31, 2021, 2022 and 2023 were \$10.0 million, \$8.8 million and \$5.0 million, respectively.

CHIEF modified the plan terms of stock options granted on December 19, 2017 in September 2021 and July 2022; therefore, the exercise price changed from \$132.70 to \$128.70 and \$124.70 per share, respectively. The modification did not cause any incremental fair value granted.

CHIEF modified the plan terms of stock options granted on October 31, 2018 in September 2021 and July 2022; therefore, the exercise price changed from \$138.70 to \$134.50 and \$130.30 per share, respectively. The modification did not cause any incremental fair value granted.

CHIEF modified the plan terms of stock options granted on November 13, 2020 in September 2021, July 2022 and August 2023; therefore, the exercise price changed from \$206.00 to \$199.70, \$193.50 and \$171.70 per share, respectively. The modification did not cause any incremental fair value granted.

Information about CHIEF's outstanding stock options for the years ended December 31, 2021, 2022 and 2023 was as follows:

	Granted on December 19, 2017			Year Ended Dec Grante October 3	018	Granted on November 13, 2020			
	Number of Options			Number of Options	Weighted Average Exercise Price (NT\$)		Number of Options	Weighted Average Exercise Price (NT\$)	
Employee stock options	•			·			·		
Options outstanding at									
beginning of the year	427.50	\$	132.70	21.00	\$	138.70	200.00	\$	206.00
Options exercised	(213.75)		132.70	(10.50)		134.50	_		_
Options forfeited	(0.50)			_			(6.00)		_
Options outstanding at end of the year	213.25		128.70	10.50		134.50	194.00		199.70
Options exercisable at end of the year	213.25		128.70			_	_		_
Weighted average remaining contractual life (years)	0.96			1.83			3.87		

		nted on er 19, 2017	Gran	December 31, 2022 nted on r 31, 2018		nted on er 13, 2020
	Number of Options	Weighted Average Exercise Price (NT\$)	Number of	Weighted Average Number of Exercise		Weighted Average Exercise Price (NT\$)
Employee stock options						
Options outstanding at						
beginning of the year	213.25	\$ 128.7	0 10.50	\$ 134.50	194.00	\$ 199.70
Options exercised	(213.25)	124.7	(10.50)	130.30	(51.00)	193.50
Options forfeited		_			(0.75)	
Options outstanding at end of the year	_	_		_	142.25	193.50
Options exercisable at end of					0.50	193.50
the year					0.30	193.30
Weighted average remaining contractual life (years)	_		0.83		2.87	

	Year Ended December 31, 2023					
	Granted on					
	November	13, 202				
	Number of Options		Weighted Average Exercise Price (NT\$)			
Employee stock options						
Options outstanding at						
beginning of the year	142.25	\$	193.50			
Options exercised	(47.00)		171.70			
Options forfeited	(2.25)		_			
Options outstanding at end of	02.00		171 70			
the year	93.00		171.70			
Options exercisable at end of the year			_			
Weighted average remaining contractual life (years)	1.87					

CHIEF used the fair value method to evaluate the options using the Black-Scholes model and binomial option pricing model and the related assumptions and the fair value of the options were as follows:

	Stock Options Granted on December 19, 2017			ock Options Franted on October 31, 2018	Stock Optio Granted or November 1 2020	
Grant-date share price (NT\$)	\$	95.92	\$	166.00	\$	356.00
Exercise price (NT\$)	\$	147.00	\$	147.00	\$	206.00
Dividend yield						
Risk-free interest rate		0.62%		0.72%		0.18%
Expected life		5 years		5 years		5 years
Expected volatility		17.35%		16.60%		34.61%
Weighted average fair value of grants (NT\$)	\$	2,318	\$	33,540	\$	173,893

The expected volatility for the options granted in 2020 was based on CHIEF's average annualized historical share price volatility from June 5, 2018, CHIEF's listing date on Taipei Exchange, to the grant date. The expected volatilities for the options granted from 2017 to 2018 were based on the average annualized historical share price volatility of CHIEF's comparable companies before the grant date.

b. CHTSC share-based compensation plan ("CHTSC Plan") described as follows:

The Board of Directors of CHTSC resolved to issue 4,500 and 3,500 stock options on December 20, 2019 and February 20, 2021, respectively. Each option is eligible to subscribe for one thousand common stocks when exercisable and the exercise prices are both \$19.085 per share. The options are granted to specific employees that meet the vesting conditions. The CHTSC Plan has an exercise price adjustment formula upon the changes in common stocks. The options of the CHTSC Plan are valid for five years and the graded vesting schedule will vest one year after the grant date.

The compensation costs for stock options for the years ended December 31, 2021, 2022 and 2023 were \$8.4 million, \$5.1 million and \$0.5 million, respectively.

Information about CHTSC's outstanding stock options for the years ended December 31, 2021, 2022 and 2023 was as follows:

	7	Year Ended December 31, 2021						
				Granted on February 20				
	Granted on Dec	Granted on December 20, 2019						
			Veighted Average		Weight Averag			
	Number of Options	0		ercise Price Number of		Price 5)		
Employee stock options								
Options outstanding at beginning of the year	4,328	\$	19.085	_	\$			
Options granted	_		_	3,500	19	9.085		
Options exercised	(1,082)		19.085	_				
Options forfeited	(72)		_	(176)				
Options outstanding at end of the year	3,174		19.085	3,324	19	9.085		
Options exercisable at end of the year	1,058		19.085			_		
Weighted average remaining contractual life (years)	2.97			4.14				

	Year Ended December 31, 2022						
	Granted on December 20, 2019 Granted on February 20, 2						
	Number of Options			Weighted Average Exercise Price (NT\$)			
Employee stock options							
Options outstanding at beginning of the year	3,174	\$ 19.085	3,324	\$ 19.085			
Options exercised	(2,049)	19.085	(815)	19.085			
Options forfeited	(42)		(166)				
Options outstanding at end of the year	1,083	19.085	2,343	19.085			
Options exercisable at end of the year	31	19.085	7	19.085			
Weighted average remaining contractual life (years)	1.97		3.14				

	Year Ended December 31, 2023							
	Granted on December 20, 2019 Granted on February 2							
	Number of Options	Weighted Average Exercise Price (NT\$)	Number of Options	Weighted Average Exercise Price (NT\$)				
Employee stock options								
Options outstanding at beginning of the year	1,083	\$ 19.085	2,343	\$ 19.085				
Options exercised	(1,002)	19.085	(778)	19.085				
Options forfeited	(41)		(46)					
Options outstanding at end of the year	40	19.085	1,519	19.085				
Options exercisable at end of the year	40	19.085	7	19.085				
Weighted average remaining contractual life (years)	0.97		2.14					

CHTSC used the fair value method to evaluate the options using the Black-Scholes model and the related assumptions and the fair value of the options were as follows:

	G	ock Options Franted on Ecember 20, 2019	Stock Options Granted on February 20, 2021
Grant-date share price (NT\$)	\$	20.17	\$ 23.76
Exercise price (NT\$)	\$	19.085	19.085
Dividend yield		12.49%	15.18%
Risk-free interest rate		0.54%	0.25%
Expected life		5 years	5 years
Expected volatility		42.41%	47.35%
Weighted average fair value of grants (NT\$)	\$	2,470	3,350

Expected volatility was based on the average annualized historical share price volatility of CHTSC's comparable companies before the grant date.

c. IISI share-based compensation plan ("IISI Plan") described as follows:

IISI issued 1,665 stock options in January 2014. Each option is eligible to subscribe for one thousand common stocks when exercisable. The options are granted to specific employees of IISI and its subsidiaries that meet the vesting conditions. The options of the IISI Plan are valid for seven years and the graded vesting schedule will vest at certain percentages starting from two years after the grant date. The exercise price of the original options is \$14 per share. After the options are issued, if the common stocks of IISI change, the exercise price of the options should be adjusted according to the prescribed formula.

No compensation cost of stock options granted was recognized for the year ended December 31, 2021.

Information about IISI's outstanding stock options for the years ended December 31, 2021 was as follows:

	Year Ended Deco Grante January	ed in
	Number of Options	Weighted Average Exercise Price (NT\$)
Employee stock options		
Options outstanding at beginning of the year	530.00	\$ 14.00
Options exercised	(261.00)	14.00
Options forfeited	(269.00)	_
Options outstanding at end of the year		_
Options exercisable at end of the year		_
Weighted average remaining contractual life (years)		

IISI used the fair value method to evaluate the options using the Black-Scholes model and the related assumptions and the fair value of the options were as follows:

	Stock Options Granted in January 2014
Grant-date share price (NT\$)	\$ 14.51
Exercise price (NT\$)	\$ 14.00
Dividend yield	6%
Risk-free interest rate	1.16%-1.32%
Expected life	4.5-5.5 years
Expected volatility	35.28%-35.97%
Weighted average fair value of grants (NT\$)	\$ 2,345

Expected volatility was based on the average annualized historical share price volatility of IISI's comparable companies before the grant date.

d. CLPT share-based compensation plan ("CLPT Plan") described as follows:

The Board of Directors of CLPT resolved to issue 690, 600 and 755 stock options on February 26, 2021, May 31, 2022 and September 26, 2023, respectively. Each option is eligible to subscribe for one thousand common stocks when exercisable and the exercise prices are all \$16.87 per share. The options are granted to specific employees that meet the vesting conditions. The CLPT Plan has an exercise price adjustment formula upon the changes in common stocks or distribution of cash dividends. The options of the CLPT Plan are valid for four years and the graded vesting schedule will vest two years after the grant date.

The compensation costs for stock options for the years ended December 31, 2021, 2022 and 2023 were \$0.9 million, \$1.5 million and \$2.9 million, respectively.

CLPT modified the plan terms of stock options granted on February 26, 2021 in September 2021 and September 2023; therefore, the exercise price changed from \$16.87 to \$15.90 and \$14.40 per share, respectively. The modification did not cause any incremental fair value granted.

CLPT modified the plan terms of stock options granted on May 31, 2022 in September 2023; therefore, the exercise price changed from \$16.87 to \$15.30 per share. The modification did not cause any incremental fair value granted.

CLPT modified the plan terms of stock options granted on September 26, 2023 in September 2023; therefore, the exercise price changed from \$16.87 to \$15.30 per share. The modification did not cause any incremental fair value granted.

Information about CLPT's outstanding stock options for the year ended December 31, 2021, 2022 and 2023 was as follows:

	Year Ended December 31, 2021				
	Granted on February 26, 2021				
	Number of Options	Weighted Average Exercise Price (NT\$)			
Employee stock options					
Options outstanding at beginning of the year		\$ —			
Options granted	690	16.87			
Options forfeited	(140)	_			
Options outstanding at end of the year	550	15.90			
Options exercisable at end of the year					
Weighted average remaining contractual life (years)	3.16				

	Year Ended December 31, 2022							
	Granted on Feb	May 31, 2022						
	Number of Options	Weighted Average Exercise Price (NT\$)	Number of Options	Weighted Average Exercise Price (NT\$)				
Employee stock options								
Options outstanding at beginning of the year	550	\$ 15.90		\$ —				
Options granted	_		600	16.87				
Options forfeited	(40)		(160)					
Options outstanding at end of the year	510	15.90	440	16.87				
Options exercisable at end of the year		_						
Weighted average remaining contractual life (years)	2.16		3.41					

		Year Ended December 31, 2023										
	Granted on 20	ember 26, 2023										
	Number of Options	Weighted Average Exercise Price (NT\$)	Number of Options	Weighted Average Exercise Price (NT\$)	Number of Options	Weighted Average Exercise Price (NT\$)						
Employee stock options												
Options outstanding at												
beginning of the year	510	\$ 15.90	440	\$ 16.87		\$ —						
Options granted	_	_		_	755	16.87						
Options exercised	(55)	15.90										
Options forfeited	(15)	_	_	_	_	_						
Options outstanding at end of												
the year	440	14.40	440	15.30	755	15.30						
Options exercisable at end of												
the year	192	14.40		_		_						
Weighted average remaining contractual life (years)	1.16		2.41		3.74							

CLPT used the fair value method to evaluate the options using the Black-Scholes model and the related assumptions and the fair value of the options were as follows:

	Gr	ck Options canted on oruary 26, 2021	G			Stock Options ranted on optember 26, 2023
Grant-date share price (NT\$)	\$	17.63	\$	18.66	\$	28.43
Exercise price (NT\$)	\$	16.87	\$	16.87	\$	16.87
Dividend yield		_		_		_
Risk-free interest rate		0.31%	6	0.98%	o o	1.10%
Expected life		4 years		4 years		4 years
Expected volatility		35.22%	6	35.76%	o o	31.99%
Weighted average fair value of grants (NT\$)	\$	4,750	\$	5,665	\$	13,225

Expected volatility was based on the average annualized historical share price volatility of CLPT's comparable companies before the grant date.

35. NON-CASH TRANSACTIONS

Except for those disclosed in other notes, the Company entered into the following non-cash investing and financing activities:

Year Ended December 31							
	2021	2022			2023		
NT\$			NT\$		NT\$		
		(In	Millions)				
\$	35,613	\$	31,265	\$	30,398		
	(280)		270		343		
\$	35,333	\$	31,535	\$	30,741		
\$	2,705	\$	_	\$	_		
	271		_				
	(64)				<u> </u>		
\$	2,912	\$		\$			
	\$	\$ 35,613 (280) \$ 35,333 \$ 2,705 271 (64)	\$ 35,613 \$ (In \$ (280) \$ \$ 35,333 \$ \$ \$ (64)	2021 2022 NT\$ NT\$ (In Millions)	NT\$ NT\$ (In Millions)		

Financing activities

			Changes in Transa			
		Cash Flows			Cash Flows from Operation	
	Balance on January 1, 2021		New Leases	Others_	Activities - Interest Paid	Balance on December 31, 2021
	NT\$	NT\$	NT\$ (In Mi	NT\$	NT\$	NT\$
Lease liabilities	\$ 9,597	\$ (3,729)	\$ 4,669	\$ (195)	\$ (69)	\$ 10,273

	Changes in Non-Cash Transactions					
	Balance on January 1, 2022 NT\$	Cash Flows from Financing Activities NT\$	New Leases NT\$ (In M	Others NT\$ iilions)	Cash Flows from Operation Activities - Interest Paid NT\$	Balance on December 31, 2022 NT\$
Lease liabilities	\$ 10,273	\$ (3,777)	\$ 4,369	\$ (117)	<u>\$ (75)</u>	\$ 10,673

			Changes in Transa			
	Balance on January 1, 2023 NT\$	Cash Flows from Financing Activities NT\$	New Leases NT\$	OthersNT\$	Cash Flows from Operation Activities - Interest Paid NT\$	Balance on December 31, 2023 NT\$
			(In M	illions)		
Lease liabilities	\$ 10,673	\$ (3,884)	\$ 4,415	<u>\$ (124)</u>	<u>\$ (105)</u>	\$ 10,975

36. CAPITAL MANAGEMENT

The Company manages its capital to ensure that entities in the Company will be able to continue as going concerns while maximizing the return to stakeholders through the optimization of the debt and equity balance.

The capital structure of the Company consists of debt of the Company and the equity attributable to the parent.

Some consolidated entities are required to maintain minimum paid-in capital amount as prescribed by the applicable laws.

The management reviews the capital structure of the Company as needed. As part of this review, the management considers the cost of capital and the risks associated with each class of capital. According to the management's suggestions, the Company maintains a balanced capital structure through paying cash dividends, increasing its share capital, purchasing outstanding shares, and issuing new debt or repaying debt.

37. FINANCIAL INSTRUMENTS

Categories of Financial Instruments

	December 31				
		2022		2023	
		NT\$		NT\$	
		(In M	illions)		
<u>Financial assets</u>					
Measured at FVTPL					
Mandatorily measured at FVTPL	\$	1,024	\$	1,037	
Hedging financial assets		13			
Financial assets at amortized cost (Note a)		81,523		82,091	
Financial assets at FVOCI		3,491		4,412	
<u>Financial liabilities</u>					
Hedging financial liabilities		_			
Measured at amortized cost (Note b)		67,451		65,466	

Note a: The balances included cash and cash equivalents, trade notes and accounts receivable, receivables from related parties, other current monetary assets and refundable deposits (classified as other noncurrent assets), which were financial assets measured at amortized cost.

Note b: The balances included short-term loans, trade notes and accounts payable, payables to related parties, partial other payables, customers' deposits, bonds payable and long-term loans (including the current portion) which were financial liabilities carried at amortized cost.

Financial Risk Management Objectives

The main financial instruments of the Company include equity investments, trade notes and accounts receivable, trade notes and accounts payable, lease liabilities, loans and bonds payable. The Company's Finance Department provides services to its business units, co-ordinates access to domestic and international capital markets, monitors and manages the financial risks relating to the operations of the Company through internal risk reports which analyze exposures by degree and magnitude of risks. These risks include market risk (including foreign currency risk, interest rate risk and other price risk), credit risk, and liquidity risk.

The Company seeks to minimize the effects of these risks by using derivative financial instruments to hedge risk exposures. The use of financial derivatives is governed by the Company's policies approved by the Board of Directors. Those derivatives are used to hedge the risks of exchange rate fluctuation arising from operating or investment activities. Compliance with policies and risk exposure limits is reviewed by the Company's Finance Department on a continuous basis. The Company does not enter into or trade financial instruments, including derivative financial instruments, for speculative purposes.

Chunghwa reports the significant risk exposures and related action plans timely and actively to the audit committee and if needed to the Board of Directors.

a. Market risk

The Company is exposed to market risks of changes in foreign currency exchange rates and interest rates. The Company uses forward exchange contracts to hedge the exchange rate risk arising from assets and liabilities denominated in foreign currencies.

There were no changes to the Company's exposure to market risks or the manner in which these risks are managed and measured.

1) Foreign currency risk

The carrying amounts of the Company's foreign currency denominated monetary assets and monetary liabilities at the balance sheet dates were as follows:

		December 31				
	2	2022		2023		
		NT\$		NT\$		
		(In Millions)				
Assets						
USD	\$	2,355	\$	2,044		
EUR		90		68		
SGD		627		920		
RMB		37		155		
Liabilities						
USD		852		1,030		
EUR		875		675		
SGD		2,010		1,864		
RMB		37		38		

The carrying amounts of the Company's derivatives with exchange rate risk exposures at the balance sheet dates were as follows:

		December 31					
	2022		2023				
	NT\$		NT\$				
		(In Millions)					
Assets							
EUR	\$	16	\$	_			
Liabilities							
EUR							

Foreign currency sensitivity analysis

The Company is mainly exposed to the fluctuations of the currencies USD, EUR and SGD as listed above.

The following table details the Company's sensitivity to a 5% increase and decrease in the functional currency against the relevant foreign currencies. 5% is the sensitivity rate used when reporting foreign currency risk internally to key management personnel and represents management's assessment of the reasonably possible changes in foreign exchange rates. The sensitivity analysis includes only outstanding foreign currency denominated monetary items and forward exchange contracts. A positive number below indicates an increase in pre-tax profit or equity where the functional currency weakens 5% against the relevant currency.

	Year Ended December 31							
	2021	2022		2023				
	NT\$	NT\$		NT\$				
		(In Millions)						
Profit or loss								
Monetary assets and liabilities (a)								
USD	\$ 56	\$ 75	\$	51				
EUR	(41)	(39)		(30)				
SGD	(85)	(69)		(47)				
RMB	3	_		6				
Derivatives (b)								
EUR	13	3		7				
Equity								
Derivatives (c)								
EUR	11	22		1				

- a) This is mainly attributable to the exposure to foreign currency denominated receivables and payables of the Company outstanding at the balance sheet dates.
- b) This is mainly attributable to forward exchange contracts.
- c) This is mainly attributable to the changes in the fair value of derivatives that are designated as cash flow hedges.

For a 5% strengthening of the functional currency against the relevant currencies, there would be an equal and opposite effect on the pre-tax profit or equity for the amounts shown above.

2) Interest rate risk

The carrying amounts of the Company's exposures to interest rates on financial assets and financial liabilities at the balance sheet dates were as follows:

	 December 31			
	 2022		2023	
	 NT\$		NT\$	
	(In M	illions)		
Fair value interest rate risk				
Financial assets	\$ 41,593	\$	43,156	
Financial liabilities	41,150		41,458	
Cash flow interest rate risk				
Financial assets	9,631		9,136	
Financial liabilities	2,322		2,185	

Interest rate sensitivity analysis

The sensitivity analyses below have been determined based on the exposure to interest rates for non-derivative instruments at the end of the reporting period. A 25 basis point increase or decrease is used when reporting interest rate risk internally to key management personnel and represents management's assessment of the reasonably possible change in interest rates.

If interest rates had been 25 basis points higher/lower and all other variables were held constant, the Company's pre-tax income would increase/decrease by \$31 million, \$18 million and \$17 million for the years ended December 31, 2021, 2022 and 2023, respectively. This is mainly attributable to the Company's exposure to floating interest rates on its financial assets, short-term and long-term loans.

3) Other price risk

The Company is exposed to equity price risks arising from holding other company's equity. Equity investments are held for strategic rather than trading purposes. The management managed the risk through holding various risk portfolios. Further, the Company assigned finance and investment departments to monitor the price risk.

Equity price sensitivity analysis

The sensitivity analyses below have been determined based on the exposure to equity price risks at the end of the reporting period.

If equity prices had been 5% higher/lower, pre-tax profit and pre-tax other comprehensive income for the year ended December 31, 2021 would have increased/decreased by \$46 million and \$181 million as a result of the changes in fair value of financial assets at FVTPL and financial assets at FVOCI, respectively. If equity prices had been 5% higher/lower, pre-tax profit and pre-tax other comprehensive income for the year ended December 31, 2022 would have increased/decreased by \$50 million and \$175 million as a result of the changes in fair value of financial assets at FVTPL and financial assets at FVOCI, respectively. If equity prices had been 5% higher/lower, pre-tax profit and pre-tax other comprehensive income for the year ended December 31, 2023 would have increased/decreased by \$51 million and \$221 million as a result of the changes in fair value of financial assets at FVTPL and financial assets at FVOCI, respectively.

b. Credit risk

Credit risk refers to the risk that a counterparty would default on its contractual obligations resulting in financial loss to the Company. The maximum credit exposure of the aforementioned financial instruments is equal to their carrying amounts recognized in the consolidated balance sheet as of the balance sheet date.

The Company has large trade receivables outstanding with its customers. A substantial majority of the Company's outstanding trade receivables are not covered by collateral or credit insurance. The Company has implemented ongoing measures including enhancing credit assessments and strengthening overall risk management to reduce its credit risk. While the Company has procedures to monitor and limit exposure to credit risk on trade receivables, there can be no assurance such procedures will effectively limit its credit risk and avoid losses. This risk is heightened during periods when economic conditions worsen.

As the Company serves a large number of unrelated consumers, the concentration of credit risk was limited.

c. Liquidity risk

The Company manages and maintains sufficient cash and cash equivalent position to support the operations and reduce the impact on fluctuation of cash flow.

1) Liquidity and interest risk tables

The following tables detailed the Company's remaining contractual maturity for its non-derivative financial liabilities with agreed repayment periods. The tables had been drawn up based on the undiscounted cash flows of financial liabilities based on the earliest date on which the Company is required to pay.

December 31, 2022

	Weighted Average Effective Interest Rate (%)	Less than 1 Month NT\$	1-3 <u>Months</u> NT\$	3 Months to 1 Year NT\$ (In M	1-5 Years NT\$ illions)	More than 5 Years NT\$	Total NT\$
Non-derivative financial liabilities							
Non-interest bearing	_	\$ 39,904	\$ —	\$ 2,144	\$ 5,157	\$ —	\$ 47,205
Floating interest rate instruments	1.79	_	300	422	1,600	_	2,322
Fixed interest rate instruments	0.53	_	_	_	21,700	8,800	30,500
		\$ 39,904	\$ 300	\$ 2,566	\$ 28,457	\$ 8,800	\$ 80,027

Information about the maturity analysis for lease liabilities was as follows:

	Less than 1					More than					
	Year 1-3 Years NT\$ NT\$					5 Years NT\$ Millions)	5 Years NT\$		Total NT\$		
					(111	willions)					
Lease liabilities	\$	3,390	\$	4,446	\$	2,143	\$	870	\$	10,849	

December 31, 2023

	Weighted Average Effective Interest Rate (%)	Less than 1 Month NT\$	1-3 Months NT\$	-	Months o 1 Year NT\$ (In Mi	1-5 Years NT\$	More than 5 Years NT\$	Total NT\$
Non-derivative financial liabilities								
Non-interest bearing	_	\$ 37,930	\$ -	- \$	2,108	\$ 5,309	\$ —	\$ 45,347
Floating interest rate instruments	1.99	_	1:	5	2,170	_	_	2,185
Fixed interest rate instruments	0.53	_	_	-	_	25,800	4,700	30,500
		\$ 37,930	\$ 1:	\$	4,278	\$ 31,109	\$ 4,700	\$ 78,032

Information about the maturity analysis for lease liabilities was as follows:

	Less than 1			More than	
	Year			5 Years	Total
	NT\$	NT\$	NT\$ (In Millions)	NT\$	NT\$
Lease liabilities	\$ 3,519	\$ 4,819	\$ 2,357	\$ 518	\$ 11,213

The following table detailed the Company's liquidity analysis for its derivative financial instruments. The table had been drawn up based on the undiscounted gross inflows and outflows on those derivatives that require gross settlement.

	_ 1 M	than Ionth T\$	 Months NT\$	1 Y	onths to Year VT\$ Iillions)	 Years_ NT\$	 Total NT\$
December 31, 2022							
Gross settled							
Forward exchange contracts							
Inflows	\$		\$ 501	\$		\$ 	\$ 501
Outflows			485		_	_	485
	\$	_	\$ 16	\$		\$	\$ 16
December 31, 2023							
Gross settled							
Forward exchange contracts							
Inflows	\$		\$ 169	\$		\$ 	\$ 169
Outflows			169		_	_	169
	\$		\$	\$		\$ 	\$

2) Financing facilities

	December 31		
	 2022		2023
	NT\$		NT\$
	(In M	illions)	
Unsecured bank loan facilities			
Amount used	\$ 722	\$	585
Amount unused	 56,862		56,191
	\$ 57,584	\$	56,776
Secured bank loan facilities			
Amount used	\$ 1,600	\$	1,600
Amount unused	 <u> </u>		20
	\$ 1,600	\$	1,620

38. FAIR VALUE INFORMATION

The fair value measurement guidance establishes a framework for measuring fair value and expands disclosure about fair value measurements. The standard describes a fair value hierarchy based on three levels of inputs that may be used to measure fair value. These levels are:

Level 1 fair value measurements: These measurements are those derived from quoted prices (unadjusted) in active markets for identical assets or liabilities.

Level 2 fair value measurements: These measurements are those derived from inputs other than quoted prices included within Level 1 that are observable for the asset or liability, either directly (i.e. as prices) or indirectly (i.e. derived from prices).

Level 3 fair value measurements: These measurements are those derived from valuation techniques that include inputs for the asset or liability that are not based on observable market data (unobservable inputs).

a. Financial instruments that are not measured at fair value but for which fair value is disclosed

Except those listed in the table below, the Company considers that the carrying amounts of financial assets and liabilities not measured at fair value approximate their fair values or the fair values cannot be reliable estimated.

	December 31, 2022				2023		
	arrying Value	Fa	nir Value	(Carrying Value	Fa	air Value
Financial liabilities							
Financial liabilities measured at amortized cost							
Bonds payable	\$ 30,477	\$	30,452	\$	30,483	\$	30,469

The fair value of bonds payable is measured using Level 2 inputs. The valuation of fair value is based on the quoted market prices provided by third party pricing services.

b. Financial instruments that are measured at fair value on a recurring basis

December 31, 2022

	L	evel 1	Level 2	Level 3	Total
Financial assets at FVTPL					
Derivatives	\$		\$ 3	\$ 	\$ 3
Listed stocks		1		_	1
Non-listed stocks				861	861
Limited partnership		_	_	135	135
Film and drama investing agreements		_		24	24
	\$	1	\$ 3	\$ 1,020	\$ 1,024
Hedging financial assets	\$	_	\$ 13	\$	\$ 13
Financial assets at FVOCI				 	
Listed stocks	\$	273	\$ _	\$ 	\$ 273
Non-listed stocks		_	_	3,218	3,218
	\$	273	\$ _	\$ 3,218	\$ 3,491

December 31, 2023

	L	evel 1]	Level 2	Level 3	Total
Financial assets at FVTPL						
Derivatives	\$	_	\$	1	\$ 	\$ 1
Listed stocks		_		_	_	_
Non-listed stocks				_	793	793
Limited partnership		_		_	219	219
Film and drama investing agreements		_		_	24	24
	\$	_	\$	1	\$ 1,036	\$ 1,037
Financial assets at FVOCI						
Listed stocks	\$	243	\$	_	\$ _	\$ 243
Non-listed stocks				_	4,169	4,169
	\$	243	\$	_	\$ 4,169	\$ 4,412
Hedging financial liabilities	\$		\$		\$ 	\$

There were no transfers between Levels 1 and 2 for the years ended December 31, 2021, 2022 and 2023.

The reconciliations for financial assets measured at Level 3 were listed below:

<u>2021</u>

Financial Assets	Fa thro	asured at hir Value ough Profit or Loss NT\$	thro	easured at air Value bugh Other prehensive Income NT\$	Total NT\$
Balance at January 1, 2021	\$	677	\$	4,439	\$ 5,116
Acquisition		25		81	106
Disposal		_		(5)	(5)
Reclassified to investments accounted for using equity method		_		(64)	(64)
Recognized in profit or loss under "Other gains and losses"		251		<u> </u>	251
Recognized in other comprehensive income under "Unrealized gain or loss on financial assets at fair value through					
other comprehensive income"		_		(1,294)	(1,294)
Proceeds from capital reduction of the investees		(44)		_	(44)
Balance at December 31, 2021	\$	909	\$	3,157	\$ 4,066
Unrealized gain or loss in 2021	\$	232			

<u>2022</u>

Financial Assets	Fa thro	asured at air Value ough Profit or Loss NT\$	thro	easured at air Value ough Other prehensive Income NT\$ a Millions)	_	Total NT\$
Balance at January 1, 2022	\$	909	\$	3,157	\$	4,066
Acquisition		348		16		364
Disposal		_				_
Recognized in profit or loss under "Other gains and losses"		(215)				(215)
Recognized in other comprehensive income under "Unrealized gain or loss on financial assets at fair value through						
other comprehensive income"				52		52
Proceed from capital reduction from investees		(22)		(7)		(29)
Balance at December 31, 2022	\$	1,020	\$	3,218	\$	4,238
Unrealized gain or loss in 2022	\$	(209)				

Financial Assets	F thr	easured at air Value ough Profit or Loss NT\$	Measured at Fair Value through Other Comprehensive Income NT\$ (In Millions)	 Total NT\$
Balance at January 1, 2023	\$	1,020	\$ 3,218	\$ 4,238
Acquisition		133	305	438
Recognized in profit or loss under "Other gains and losses"		(95)	_	(95)
Recognized in other comprehensive income under "Unrealized gain or loss on financial assets at fair value through other comprehensive income"		_	649	649
Proceed from capital reduction from investees and profit				
distribution		(22)	(3)	(25)
Balance at December 31, 2023	\$	1,036	\$ 4,169	\$ 5,205
Unrealized gain or loss in 2023	\$	(95)		

The fair values of financial assets and financial liabilities of Level 2 are determined as follows:

- 1) The fair values of financial assets and financial liabilities with standard terms and conditions and traded in active markets are determined with reference to quoted market prices.
- 2) For derivatives, fair values are estimated using discounted cash flow model. Future cash flows are estimated based on observable inputs including forward exchange rates at the end of the reporting periods and the forward and spot exchange rates stated in the contracts, discounted at a rate that reflects the credit risk of various counterparties.

The fair values of non-listed domestic and foreign equity investments and film and drama investing agreements were Level 3 financial assets and determined using the market approach by reference the Price-to-Book ratios (P/B ratios) of peer companies that traded in active markets, using the income approach, in which the discounted cash flow is used to capture the present value of the expected future economic benefits to be derived from the investments, or using assets approach. The significant unobservable inputs used were listed in the below table. An increase in growth rate of long-term revenue, a decrease in discount for the lack of marketability or noncontrolling interests discount, or a decrease in the discount rate would result in increases in the fair values.

	Decem	ber 31
	2022	2023
Discount for lack of marketability	14.09%-20.00%	3.75%-20.00%
Noncontrolling interests discount	17.29%-25.00%	17.01%-25.00%
Growth rate of long-term revenue	0.19%	0.19%
Discount rate	7.20%-8.80%	7.11%-8.20%

If the inputs to the valuation model were changed to reflect reasonably possible alternative assumptions while all the other variables were held constant, the fair values of Level 3 financial assets would increase (decrease) as below table.

	De	cember 31
	2022	2023
	NT\$	NT\$
	(Iı	n Millions)
Discount for lack of marketability		
5% increase	\$ (3	33) \$ (49)
5% decrease	\$ 3	\$ 45
Noncontrolling interests discount		_
5% increase	\$ (2	24) \$ (22)
5% decrease	\$ 2	\$ 22
Long-term revenue growth rates		
0.1% increase	\$ 3	30 \$ 35
0.1% decrease	\$ (2	<u>\$</u> (35)
Discount rate		_
1% increase	\$ (33	30) \$ (396)
1% decrease	\$ 40	<u>\$ 488</u>

39. RELATED PARTIES TRANSACTIONS

The ROC Government has significant equity interest in Chunghwa. Chunghwa provides fixed-line services, mobile services, internet and data and other services to the various departments and institutions of the ROC Government in the normal course of business and at arm's-length prices. Except for those disclosed in other notes or this note, the transactions with the ROC government bodies have not been disclosed because the transactions are not individually or collectively significant. However, the related revenues and operating costs have been appropriately recorded.

a. The Company engages in business transactions with the following related parties:

Company	Relationship
Taiwan International Standard Electronics Co., Ltd.	Associate
So-net Entertainment Taiwan Limited	Associate
KKBOX Taiwan Co., Ltd.	Associate
KingwayTek Technology Co., Ltd.	Associate
Taiwan International Ports Logistics Corporation	Associate
Senao Networks, Inc.	Associate
EnGenius Networks Inc.	Subsidiary of the Company's associate, Senao Networks,
	Inc.
EnRack Technology Co., Ltd.	Subsidiary of the Company's associate, Senao Networks,
	Inc.
Emplus Technologies, Inc.	Subsidiary of the Company's associate, Senao Networks,
	Inc.
ST-2 Satellite Ventures Pte., Ltd.	Associate
CHT Infinity Singapore Pte. Ltd.	Associate
Viettel-CHT Co., Ltd.	Associate
PT. CHT Infinity Indonesia	Subsidiary of the Company's associate, CHT Infinity
	Singapore Pte. Ltd.
Click Force Co., Ltd.	Associate

(Continued)

Company	Relationship
Alliance Digital Tech Co., Ltd.	Associate (Note 1)
Chunghwa PChome Fund I Co., Ltd.	Associate
Cornerstone Ventures Co., Ltd.	Associate
Next Commercial Bank Co., Ltd.	Associate
WiAdvance Technology Corporation	Associate
AgriTalk Technology Inc.	Associate (Note 2)
Imedtac Co., Ltd.	Associate (Note 2)
Baohwa Trust Co., Ltd.	Associate
Chunghwa SEA Holdings	Joint venture
Other related parties	
Chunghwa Telecom Foundation	A nonprofit organization of which the funds donated by
	Chunghwa exceeds one third of its total funds
Senao Technical and Cultural Foundation	A nonprofit organization of which the funds donated by
	SENAO exceeds one third of its total funds
Sochamp Technology Co., Ltd.	Investor of significant influence over CHST
Tsann Kuen Enterprise Co., Ltd.	Substantial related party of SENAO
E-Life Mall Co., Ltd.	Substantial related party of SENAO
Engenius Technologies Co., Ltd.	Substantial related party of SENAO
Cheng Keng Investment Co., Ltd.	Substantial related party of SENAO
Cheng Feng Investment Co., Ltd.	Substantial related party of SENAO
All Oriented Investment Co., Ltd.	Substantial related party of SENAO
Hwa Shun Investment Co., Ltd.	Substantial related party of SENAO
Yu Yu Investment Co., Ltd.	Substantial related party of SENAO
Divine Fine Foods & Wine Inc.	Substantial related party of SENAO (Note 3)
Kangsin Co., Ltd.	Substantial related party of SENAO
United Daily News Co., Ltd.	Investor of significant influence over SFD
Shenzhen Century Communication Co., Ltd.	Investor of significant influence over SCT
Advantech Co., Ltd.	Investor of significant influence over IISI
Z-Com, Inc.	Investor of significant influence over CHST

(Concluded)

- Note 1: ADT completed its liquidation in August 2021. Please refer to Note 15.
- Note 2: ATT and IME were previously treated as financial assets at FVOCI. As the Company acquired seats in the Board of Directors of each company and has significant influence over ATT and IME in July and August 2021, respectively, these investments are reclassified as associates. Please refer to Note 15.
- Note 3: Divine Fine Foods & Wine Inc. replaced its responsible persons in October 2021. Since then, Divine Fine Foods & Wine Inc. is no longer a related party of the Company.
- b. Balances and transactions between Chunghwa and its subsidiaries, which are related parties of Chunghwa, have been eliminated on consolidation and are not disclosed in this note. Terms of the foregoing transactions with related parties were not significantly different from transactions with nonrelated parties. When no similar transactions with non-related parties can be referenced, terms were determined in accordance with mutual agreements. Details of transactions between the Company and other related parties are disclosed below:

1) Operating transactions

			evenues		
	 Ye	ar Ende	d December	31	
	2021		2022		2023
	NT\$		NT\$		NT\$
		(In	Millions)		
Associates	\$ 499	\$	417	\$	403
Others	55		61		57
	\$ 554	\$	478	\$	460
	 		osts and Exp		
	 Ye	ar Ende	d December	31	
	 2021		2022		2023
	NT\$		NT\$		NT\$
		(In	Millions)		
Associates	\$ 853	\$	1,247	\$	1,322
Others	74		80		74

2) Non-operating transactions

		Non-operating Income and Expenses				
		Year Ended December 31				
	20	2021		022		2023
	N	NT\$		NT\$		NT\$
			(In M	Iillions)		
Associates	\$	38	\$	37	\$	38
Others		3		2		2
	\$	41	\$	39	\$	40

927

1,327

1,396

3) Receivables

		December 31			
	202	2	2023		
	NT	\$		NT\$	
		(In M	illions)		
Associates	\$	70	\$	76	
Others		5		2	
	\$	75	\$	78	

4) Payables

2	2022				
N	NT\$ NT				
	(In Mi	llions)			
\$	534	\$	381		
	5		4		
\$	539	\$	385		
		2022 NT\$ (In Mi \$ 534 5	NT\$ (In Millions) \$ 534 \$ 5		

5) Customers' deposits

		December 31			
	2	2022		023	
	N	T\$	N	T\$	
		(In Mi	llions)		
Associates	\$	69	\$	20	
Others		_		_	
	\$	69	\$	20	

6) Acquisition of property, plant and equipment

	Ye	ar Ended Decembe	r 31	
	2021	2022		2023
	NT\$	NT\$ (In Millions)	-	NT\$
\$	398	\$ 32	\$	173

7) Acquisition of intangible assets

Y	ear Ended December	· 31
2021	2022	2023
NT\$	NT\$	NT\$
	(In Millions)	
<u>\$</u>	\$ 1	<u> </u>
	2021	NT\$ NT\$

8) Disposal of property, plant and equipment and investment properties

	Proceeds
	Year Ended December 31
	2021 2022 2023
	NT\$ NT\$ NT\$ NT\$
	<u>\$ 10</u> <u>\$ — \$</u>
res	\$ 10 \$ — \$ Gain on Disposal
S	
	Gain on Disposal
	Gain on Disposal Year Ended December 31

9) Lease-in agreements

Chunghwa entered into a contract with ST-2 Satellite Ventures Pte., Ltd. on March 12, 2010 to lease capacity on the ST-2 satellite. This lease term is for 15 years which should start from the official operation of ST-2 satellite and the total contract value is approximately \$6,000 million (SGD 261 million), including a prepayment of \$3,068 million at the inception of the lease, and the rest of amount should be paid annually when ST-2 satellite starts its official operation. ST-2 satellite was launched in May 2011 and began its official operation in August 2011. As ST-2 satellite is in good operating condition, the useful life is extended for another 3 years and 3 months after evaluation in 2021. The Board of Directors of Chunghwa approved to extend the lease period accordingly with the original contract terms in December 2021; therefore, Chunghwa acquired right-of-use asset of \$1,125 million from the aforementioned lease extension.

The lease liabilities of ST-2 Satellite Ventures Pte., Ltd. as of December 31, 2022 and 2023 were as follows:

		December 31				
	2	022		2023		
	N	NTS NTS				
		(In Millions)				
Lease liabilities - current	\$	194	\$	197		
Lease liabilities - noncurrent		1,761		1,603		
	\$	1,955	\$	1,800		

The interest expense recognized for the aforementioned lease liabilities for the years ended December 31, 2021, 2022 and 2023 were \$7 million, \$8 million and \$8 million, respectively.

10) Others

The bank deposits and other financial assets of NCB as of December 31, 2022 and 2023 were as follows:

	Dece	mber 31
	2022	2023
	NT\$	NT\$
	(In N	Millions)
Bank deposits and other financial assets	\$	- \$ 1,132

The interest income recognized for the aforementioned bank deposits and other financial assets was \$1 million for the year ended December 31, 2023.

c. Compensation of key management personnel

The compensation of directors and other key management personnel for the years ended December 31, 2021, 2022 and 2023 were as follows:

	Year Ended December 31					
		2021		2022		2023
		NT\$	(Ir	NT\$ n Millions)	-	NT\$
Short-term employee benefits	\$	321	\$	360	\$	352
Post-employment benefits		7		8		26
Share-based payment		2		2		1
Termination benefits						_
	\$	330	\$	370	\$	379

The compensation of directors and key management personnel was mainly determined by the compensation committee having regard to the performances and market trends.

40. PLEDGED ASSETS

The following assets are pledged as collaterals for bank loans, customs duties of the imported materials, warranties of contract performance or the trust account LED entrusts to Land Bank of Taiwan for fund control and property rights management.

	 December 31						
	 2022		2023				
	NT\$ NT\$						
	(In Millions)						
Property, plant and equipment	\$ 2,403	\$	2,469				
Restricted assets (included in other assets - others)	 131		546				
	\$ 2,534	\$	3,015				

41. SIGNIFICANT CONTINGENT LIABILITIES AND UNRECOGNIZED COMMITMENTS

Except for those disclosed in other notes, the Company's significant commitments and contingent liabilities as of December 31, 2023 were as follows:

- a. Acquisitions of land and buildings of \$49 million.
- b. Acquisitions of telecommunications-related inventory and equipment of \$21,758 million.
- c. Unused letters of credit amounting to \$10 million.
- d. A commitment to contribute \$2,000 million to a Piping Fund administered by the Taipei City Government, of which \$1,000 million was contributed by Chunghwa on August 15, 1996 (classified as other financial assets noncurrent). If the fund is not sufficient, Chunghwa will contribute the remaining \$1,000 million upon notification from the Taipei City Government.
- e. Chunghwa committed that when its ownership interest in NCB is greater than 25% and NCB encounters financial difficulty or the capital adequacy ratio of NCB cannot meet the related regulation requirements, Chunghwa will provide financial support to assist NCB in maintaining a healthy financial condition.
- f. Chunghwa signed a contract, the ST-2 Satellite Succession Plan, with Singapore Telecommunications Limited, for a total transaction price of EUR 177 million and SGD 51 million. As of December 31, 2023, Chunghwa had paid the amount of EUR 50 million (classified as prepayments noncurrent).
- g. LED has signed the land presale contracts amounting to \$4,244 million and has received \$460 million in accordance with the contracts (classified as contract liabilities current).

42. SEGMENT INFORMATION

In response to changes in the operating environment and new business challenges, the Company launched its organizational transformation and redesigned the operational decision-making processes and the performance assessment under the new structure. The aforementioned organizational transformation was effective from January 1, 2022. The Company redefined the reportable segments as "Consumer Business", "Enterprise Business", "International Business" and "Others" and restated the corresponding items of segment information for the comparative period. The reportable segments are managed separately because each segment represents a strategic business unit that serves different customers. Segment information is provided to the chief operating decision maker who allocates resources and assesses segment performance. The Company's measure of segment performance is mainly based on revenues and income before income tax.

Some operating segments have been aggregated into a single operating segment taking into account the following factors: (a) the type or class of customer for the telecommunications products and services are similar; (b) the nature of the telecommunications products and services are similar; and (c) the methods used to provide the services to the customers are similar.

The accounting policies of the operating segments are the same as those described in Note 3.

a. Segment revenues and operating results

Analysis by reportable segment of revenues and operating results of continuing operations are as follows:

	Consumer Business NT\$	Enterprise Business NT\$	International Business NT\$ (In Millions)	Others NT\$	Total NT\$	
Year ended December 31, 2021			(
Revenues						
From external customers	\$ 129,912	\$ 69,258	\$ 6,122	\$ 5,186	\$ 210,478	
Intersegment revenues	2,857	1,693	961	340	5,851	
Segment revenues	\$ 132,769	\$ 70,951	\$ 7,083	\$ 5,526	216,329	
Intersegment elimination					(5,851)	
Consolidated revenues					\$ 210,478	
Segment income before income tax	\$ 27,528	\$ 15,094	\$ 1,246	\$ 2,199	\$ 46,067	
Year ended December 31, 2022						
Revenues						
From external customers	\$ 132,063	\$ 72,152	\$ 7,189	\$ 5,335	\$ 216,739	
Intersegment revenues	2,166	952	864	348	4,330	
Segment revenues	\$ 134,229	\$ 73,104	\$ 8,053	\$ 5,683	221,069	
Intersegment elimination					(4,330)	
Consolidated revenues					\$ 216,739	
Segment income before income tax	\$ 28,505	\$ 15,607	\$ 1,694	\$ 1,398	\$ 47,204	
Year ended December 31, 2023						
Revenues						
From external customers	\$ 137,093	\$ 73,005	\$ 9,188	\$ 3,913	\$ 223,199	
Intersegment revenues	2,626	1,014	995	406	5,041	
Segment revenues	\$ 139,719	\$ 74,019	\$ 10,183	\$ 4,319	228,240	
Intersegment elimination					(5,041)	
Consolidated revenues					\$ 223,199	
Segment income before income tax	\$ 28,907	\$ 14,363	\$ 2,141	\$ 1,597	\$ 47,008	

b. Other segment information

Other information reviewed by the chief operating decision maker or regularly provided to the chief operating decision maker was as follows:

For the year ended December 31, 2021

	_	onsumer Business NT\$	Enterprise Business NT\$		International Business NT\$ (In Millions)		Others NT\$		_	Total NT\$
Share of profits of associates and joint ventures accounted for using										
equity method	\$	(48)	\$	11	\$	272	\$	186	\$	421
Interest income	\$	7	\$	16	\$	5	\$	67	\$	95
Interest expenses	\$	131	\$	66	\$	7	\$	14	\$	218
Depreciation and amortization	\$	27,953	\$	9,700	\$	865	\$	698	\$	39,216
Impairment loss on right-of-use assets	\$	5	\$	382	\$	33	\$		\$	420
Reversal of impairment loss on										
investment properties	\$		\$		\$		\$	83	\$	83
Impairment loss on intangible assets	\$	29	\$		\$	_	\$	_	\$	29

For the year ended December 31, 2022

	_	onsumer Business NT\$	Enterprise Business NT\$		International Business NT\$ (In Millions)		Others NT\$		 Total NT\$
Share of profits of associates and						·			
joint ventures accounted for using equity method	\$_	(43)	\$	23	\$	315	\$	147	\$ 442
Interest income	\$	11	\$	28	\$	8	\$	202	\$ 249
Interest expenses	\$	151	\$	83	\$	7	\$	22	\$ 263
Depreciation and amortization	\$	28,703	\$	9,714	\$	1,114	\$	739	\$ 40,270
Reversal of impairment loss on investment properties	\$		\$		\$		\$	107	\$ 107
Impairment loss on intangible assets	\$	9	\$		\$		\$		\$ 9

	onsumer Business NT\$	Enterprise Business NT\$		International Business NT\$ (In Millions)		Others NT\$		_	Total NT\$
Share of profits of associates and joint ventures accounted for using									
equity method	\$ (129)	\$	29	\$	283	\$	70	\$	253
Interest income	\$ 25	\$	58	\$	36	\$	499	\$	618
Interest expenses	\$ 185	\$	94	\$	8	\$	32	\$	319
Depreciation and amortization	\$ 28,699	\$	9,721	\$	1,354	\$	737	\$	40,511
Impairment loss on investment properties	\$	\$		\$		\$	336	\$	336
Impairment loss on property, plant and equipment	\$ 249	\$	50	\$		\$		\$	299

c. Main products and service revenues

The following is an analysis of the Company's revenue from its major products and services.

	 Year Ended December 31						
	 2021		2022		2023		
	NT\$	NT\$			NT\$		
			Millions)				
Consumer Business				_			
Mobile services	\$ 49,043	\$	51,821	\$	55,138		
Fixed-line services	42,277		42,766		42,574		
Sales	36,145		35,172		36,816		
Others	2,447		2,304		2,565		
	 129,912		132,063		137,093		
Enterprise Business							
Fixed-line services	34,712		34,537		33,967		
ICT business	22,299		24,248		24,697		
Mobile services	8,446		8,942		9,119		
Others	3,801		4,425		5,222		
	69,258		72,152		73,005		
International Business							
Fixed-line services	5,008		5,063		5,389		
ICT business	679		1,506		2,841		
Others	435		620		958		
	6,122		7,189		9,188		
Others	 						
Sales	4,335		4,553		3,034		
Others	 851		782		879		
	5,186		5,335		3,913		
	\$ 210,478	\$	216,739	\$	223,199		

d. Geographic information

The users of the Company's services are mainly from Taiwan, ROC. The revenues it derived outside Taiwan are mainly revenues from international long distance telephone and leased line services. The geographic information for revenues was as follows:

		Year Ended December 31								
	2021			2022		2023				
	-	NT\$		NT\$		NT\$				
			(I	n Millions)						
Taiwan, ROC	\$	204,473	\$	209,727	\$	215,265				
Overseas		6,005		7,012		7,934				
	\$	210,478	\$	216,739	\$	223,199				

The Company has long-lived assets in U.S., Singapore, Hong Kong, China, Vietnam, Japan, and Thailand for \$3,212 million and \$3,093 million as of December 31, 2022 and 2023, respectively, in the aforementioned areas, the other long-lived assets are located in Taiwan, ROC.

e. Major customers

As of December 31, 2021, 2022 and 2023, the Company did not have any single customer whose revenue exceeded 10% of the total revenues.

Articles of Incorporation of Chunghwa Telecom Co., Ltd.

- 1. All of 26 articles adopted by Promoters Meeting on June 11, 1996.
- 2. Article 15 amended by the Annual General Meeting on December 26, 1997.
- 3. Articles 2 and 22 amended by the Annual General Meeting on November 25, 1998.
- 4. Paragraph 1 of Article 21 amended by the Extraordinary General Meeting on July 13, 1999.
- 5. Articles 2, 3, 6, 7, 10, 12, 13, 19, 21, and 22 amended, and Articles 6-1 and 7-1 added by the Annual General Meeting on June 4, 2001.
- 6. Articles 2, 7, 8, 9, 10, 19, 21, and 22 amended and Article 5 deleted by the Annual General Meeting on June 21, 2002
- 7. Article 2 amended by the Annual General Meeting on June 17, 2003.
- 8. Articles 2 and 22 amended by the Annual General Meeting on June 25, 2004.
- 9. Articles 2, 3, 6, 10, 11, 12, 14, 17, 19, 20, 22, 23, and 25 amended, and Articles 12-1, 18-1, and 18-2 added by the Annual General Meeting on May 30, 2006.
- 10. Articles 2, 12-1, 14, 22, and 23 amended, and Article 18-1 deleted by the Annual General Meeting on June 15, 2007.
- 11. Articles 2, 6, and 14 amended by the Annual General Meeting on June 19, 2008.
- 12. Articles 2, 6,12 and 13 amended, and Article 6-1 deleted by the Annual General Meeting on June 19, 2009.
- 13. Article 2 amended by the Annual General Meeting on June 18, 2010.
- 14. The title of Chapter IV and Articles 12, 12-1, 14, 19, 20, and 22 amended by the Annual General Meeting on June 22, 2012.
- 15. The title of Chapter IV, Articles 2, 12, 13, 18-2, 21 and 22 amended; Articles 17 and 18 deleted, and Article 13-1 added by the Annual General Meeting on June 25, 2013.
- 16. Articles 2 and 15 amended by the Annual General Meeting on June 24, 2014.
- 17. Articles 1, 2 and 7-1 amended by the Annual General Meeting on June 26, 2015.
- 18. Articles 2 and 22 amended, and Article 22-1 added by the Annual General Meeting on June 24, 2016.
- 19. Article 2 amended by the Annual General Meeting on June 15, 2018.
- 20. Article 2 amended by the Annual General Meeting on June 21, 2019.
- 21. Article 2 amended by the Annual General Meeting on May 29, 2020.
- 22. Article 1, 2, 14, 19 and 20 amended by the Annual General Meeting on August 20, 2021.
- 23. Article 8 amended by the Annual General Meeting on May 27, 2022.
- 24. Article 2 amended by the Annual General Meeting on May 26, 2023.

Chapter I - General Provisions

Article 1 - The Company is promoted by the Ministry of Transportation and Communications ("MOTC") and others and organized under the Telecommunication Law and the provisions of the Company Law pertaining to companies limited by shares and is named "Chunghwa Telecom Co., Ltd.".

The English name of the Company is "Chunghwa Telecom Co., Ltd.".

In response to the implementation of Telecommunications Management Act, the Company has completed the telecommunication business conversion registration on September 30, 2020, and the telecommunication business is changed to be governed under the Telecommunications Management Act.

- Article 2 The scope of business of the Company shall be as follows:
 - 1) Telecommunications Enterprises (G903010);
 - 2) Installation of the Computer Equipment Business (E605010);
 - 3) Telecommunication Equipment Wholesale Business (F113070);
 - 4) Telecommunication Equipment Retail Business (F213060);
 - 5) Telecommunication Engineering Business (E701010);
 - 6) Installation of the Radio-Frequency Equipment whose operation is controlled by the Telecommunication Business (E701030);
 - 7) Information Software Service Business (I301010);
 - 8) Rental Business (JE01010);
 - 9) Other Wholesale Businesses (F199990);
 - 10) Management and Consulting Service Business (I103060);
 - 11) Other Corporation Service Businesses (IZ99990);

- 12) Other Retail Businesses (F299990);
- 13) Online Certification Service Businesses (IZ13010);
- 14) Supply of Electronic Information Service Businesses (I301030);
- 15) Information Process Service Business (I301020);
- 16) Telecommunication Account Application Agency Businesses (IE01010);
- 17) Residential and Commercial Building Development, Rental and Sales Businesses (H701010);
- 18) Development of Special District/Zone Businesses (H701040);
- 19) Real Estate Rental Businesses (H703100);
- 20) Community Common Cable Television Equipment Businesses (J502020);
- 21) Exhibition Service Businesses (JB01010);
- 22) Parking Lot Operation Businesses (G202010);
- 23) Environmental Assessment Service Businesses (J101050);
- 24) Computer and Accessories Manufacturing Service (CC01110);
- 25) Information Storage and Process Equipment Manufacturing Businesses (CC01120);
- 26) Other Electrical and Electronic Machinery & Equipment Manufacturing Businesses (CC01990);
- 27) General Hotel Business (J901020);
- 28) Computer and Administrative Device Wholesale Businesses (F113050);
- 29) Information Software Wholesale Businesses (F118010);
- 30) Computer and Administrative Device Retail Businesses (F213030);
- 31) Information Software Rental Businesses (F218010);
- 32) Energy Service Business (IG03010);
- 33) Engineering Consulting Business (I101061);
- 34) Refrigeration and Air-Conditioning Consulting Business (E602011);
- 35) Automatic Control Equipment Engineering Business (E603050);
- 36) Lighting Equipment Installation Business (E603090);
- 37) Non-store Retailer Business (F399040):
- 38) Power Equipment Installation and Maintenance Business (E601010):
- 39) Electrical Appliance Installation Business (E601020);
- 40) Instrument Installation Engineering Business (EZ05010);
- 41) Television Program Production Business (J503020);
- 42) Broadcasting and Television Program Launch Business (J503030);
- 43) Broadcasting and Television Advertising Business (J503040);
- 44) Production, Licensed Recording and Supply of Videotape Program Business (J503050);
- 45) The Third Party Payment Business (I301040);
- 46) Water Pipe Construction Business (E501011);
- 47) Machinery and Equipment Manufacturing Business (CB01010);
- 48) Traffic Signals Installation and Construction Business (E603080);
- 49) Traffic Labels Construction Business (EZ06010);
- 50) Medical Device Wholesale Business (F108031);
- 51) Medical Device Retail Business (F208031);
- 52) Metrological Instruments Importing Business (F401181);
- 53) Metrological Instruments Repairing Business (JA02051);
- 54) Metrological Instruments Manufacturing Business (CE01021);
- 55) Electric Power Generation (D101011)
- 56) Commercial Port Area Ship-repair (CD01070)
- 57) Except the permitted business, the Company may engage in other businesses not prohibited or restricted by laws and regulations (ZZ99999).

The Company may handle endorsement and guaranty affairs in accordance with the Operation Procedures for the Endorsement and Guaranty of the Company if there is any business needs.

- Article 3 In the event that the Company invests in another business as a limited-liability shareholder, the total investment amount may not exceed the total paid-in capital of the Company. Investment not related to telecommunications may not exceed 20% of the total paid-in capital of the Company.
- Article 4 The head office of the Company is located in Taipei City and the Company may establish branch office(s) and liaison office(s) at appropriate locations within or outside the territory of the Republic of China.
- Article 5 (Deleted)

Chapter II - Shares

Article 6 - The registered capital of the Company shall be One Hundred Twenty Billion New Taiwan Dollars (NT\$120,000,000,000), divided into Twelve Billion (12,000,000,000) common shares with a par value of Ten New Taiwan Dollars (NT\$10) per share. All the shares shall be issued in increments.

Two Hundred Million shares shall be set aside from the aforementioned common shares for the use as Stock Warrants, Preferred Shares with Warrants, and Bonds with Warrants.

For issuance of Stock Warrants where the price is less than the closing price of the Company shares on the date of issuance, or where the price of the treasury stocks to be transferred to the employees is less than the average price of the repurchased shares, shareholders representing the majority of the issued shares shall be present and approval by at least 2/3 of the presenting shareholders shall be required.

Article 6-1 - (Deleted)

Article 7 - The share certificates of the Company shall bear the shareholders' names, be signed or sealed by the Chairman and at least two other directors, be serially numbered, affixed with the corporate seal of the Company, and legalized by the Ministry of Economic Affairs ("MOEA") (hereinafter referred to as the "Competent Authority") or its certified issuance registration agency before they are issued in accordance with the relevant laws.

When issuing new shares, the Company may print a share certificate in respect of the full number of shares to be issued at that time, and shall arrange for the certificate to be kept by a centralized securities custodian institution, in which case the preceding requirement for serial numbering of share certificates shall not apply.

Shares issued by the Company may also be exempt from printing of share certificates, and the Company shall arrange for such shares to be recorded by a centralized securities custodian institution, in which case the preceding 2 paragraphs shall not apply.

Any affair with regard to the shares of the Company shall be handled in accordance with the Guidelines for Handling Stock Affairs by a Public Issuing Company.

Article 7-1 - The stocks issued by the Company, upon the request of the centralized securities custodian institution, may be merged in exchange for the security with large par value.

Chapter III - Shareholders' Meeting

Article 8 - Shareholders' meetings shall be of two types: annual general meeting and extraordinary general meeting. Except as otherwise provided in the Company Law, shareholders' meetings shall be convened by the Board of Directors.

The annual general meeting shall be convened at least once every year and shall be convened within six (6) months after the close of each fiscal year except as otherwise approved by the Competent Authority for good cause shown.

The extraordinary general meeting shall be convened at such time as may be deemed necessary pursuant to relevant laws and regulations.

The shareholders' meetings may be held by means of visual communication network or other methods promulgated by the central competent authority.

Article 9 - Where a shareholders' meeting is convened by the Board of Directors, the chairman of the Company shall act as the chairman of the shareholders' meeting. In the event that the chairman is to be on leave of absence or cannot attend the meeting for any cause whatsoever, the vice-chairman, or where the chairman and the vice-chairman are both to be on leave of absence or cannot attend the meeting for any cause whatsoever, one of the directors appointed by the

chairman, or, where there is no appointment, a director elected among all the directors, may act on behalf of the chairman.

Where a shareholders' meeting is convened by a person with authority other than the Board of Directors, such convener shall act as the chairman of the shareholders' meeting. Where there are two (2) or more conveners, the chairman of the meeting shall be elected amongst such conveners.

Article 10 - Unless otherwise specified by the law, each shareholder of the Company shall be entitled to one vote for each share held.

Article 11 - (Deleted)

Chapter IV - Directors and Audit Committee

Article 12 - The Company shall have seven (7) to fifteen (15) directors to form the Board of Directors, one-fifth (1/5) of whom shall be expert representatives.

The Board of Directors shall have one (1) chairman elected by and from among the directors with the concurrence of a general majority of the directors present at a meeting attended by at least two-thirds (2/3) of the directors and shall have one (1) vice-chairman elected in the same way.

The Board of Directors may establish various functional committees according to the laws and regulations or business needs.

The Company shall establish an audit committee starting from the 7th Board of Directors. The provisions related to supervisors under the Company Act, Securities and Exchange Act and other laws shall apply mutatis mutandis to the audit committee.

Article 12-1 In accordance with Articles 181-2 and 183 of the Securities and Exchange Act, the Company shall, beginning in the fifth commencement, establish at least three (3) independent directors to be included in the number of directors designated in the preceding Article.

The elections for directors of the Company shall proceed with the candidate nomination system; the shareholders shall elect the directors from among the nominees listed in the roster of candidates.

Elections for independent and non-independent directors shall proceed concurrently, and the number of elected directors shall be calculated separately.

The professional qualifications, restrictions on shareholding and concurrent post, affirmation of independence, nomination and election processes, exercise of authority and other requirements of independent directors shall be determined and executed in accordance with the Securities and Exchange Law and related regulations.

Article 13- The tenure of office of the directors will be three (3) years and they will be eligible for re-election.

In the event that the representative of a government or corporate body is elected as the director, the government or corporate body may reappoint such representative at anytime to supplement the original tenure.

- Article 13-1- The remuneration and compensation of the directors shall be determined by the Board of Directors based on the participation and the contribution of each director in the business operation of the Company and referencing the regular standards of other corporations in the similar industry.
- Article 14 The following items shall be decided by the Board of Directors:
 - 1) Increase or reduction of capital of the Company.
 - 2) Regulations with regard to the organization of the Company.
 - 3) Establishment, amendment, and abolishment of the branch offices within or outside the territory of the Republic of China.
 - 4) Examination of annual business budgets and final closing report.
 - 5) Distribution of earnings or off-set of deficit.
 - 6) The amount and term of domestic and foreign loan.

- 7) The amount of Investment.
- 8) Issuance of corporate bonds.
- 9) Policies regarding personnel matters, material purchase, accounting, and internal control.
- 10) Amendment and modifications of regulations of organization of the Board of Directors and the functional committee.
- 11) Amendment and modification of regulations with regard to the scope of duties of independent directors
- 12) Appointment and removal of the president, executive vice presidents, presidents of branch offices, president of Telecommunication Laboratories, and president of Telecommunication Training Institute.
- 13) Appointment and removal of the chiefs of finance, accounting and internal audit.
- 14) Policies regarding recommendation of chairman and president to subsidiaries.
- 15) Other duties and powers granted by the law or by shareholders' meeting.
- Article 15 The Board of Directors' meeting shall be convened at least one time a quarter. The special Board of Directors' meeting shall be convened at such time as may be deemed necessary. Both meetings shall be convened by the chairman of the Company and such chairman shall act as the chairman of the meeting. In the event that the chairman cannot attend the meeting for any cause whatsoever, the vice-chairman, or where the chairman and the vice-chairman are both to be on leave of absence or cannot attend the meeting for any cause whatsoever, one of the directors appointed by the chairman, or, where there is no appointment, a director elected among all the directors, may act on behalf of the chairman.
- Article 16 All directors shall attend every Board of Directors' meeting; in case any of the directors cannot attend the meeting for any cause whatsoever, he/she may designate the other directors to act on his/her behalf and such agent shall present the proxy setting forth the vested power of the purpose of the meeting each time. However, each agent shall only accept one appointment from the directors.

Except as otherwise provided in the relevant laws or this Articles of Incorporation, any resolution of a Board of Directors' meeting shall be adopted at a meeting which at least general majority of the directors attend and at which meeting a general majority of the directors present vote in favor of such resolution.

Minutes of meetings shall be prepared for all resolutions adopted at a Board of Directors' meeting.

- Article 17 (deleted).
- Article 18 (deleted).
- Article 18-1 (deleted).
- Article 18-2 The Company may purchase liability insurance policies for directors during the term of their offices and within the scope of damages results from the performances of their official duties in order to reduce and disperse the risks for the Company and shareholders due to the fault, mistake, violation of duty, and inaccurate or misleading statements on part of the directors during the performance of their duties.

Chapter V - Managerial Officers

Article 19 - The Company shall have one (1) chief executive officer, to be served as a concurrent post by the chairman or by the president, to lead the managers in proposing and making significant policy decisions regarding to the Company and all affiliates of the Company.

The Company shall have one (1) president, several executive vice presidents and presidents of branch offices, and one (1) president for each of Telecommunication Laboratories and Telecommunication Training Institute.

The president shall be a director with professional knowledge in business of telecommunication or technology.

Article 20 - The president shall, in accordance with the decision made by the Board of Directors and with instruction from the chief executive officer, take charge of the affairs of the Company, and shall have the authority to sign on behalf of the Company; the executive vice presidents, presidents of branch offices, president of Telecommunication Laboratories, and president of Telecommunication Training Institute shall assist the president in all affairs, and shall have the power to sign on behalf of the Company within the scope set by rules decided by the president or authorized in writing by the president.

The division of powers and duties between the Board of Directors and the managers shall be determined in accordance with the Powers and Duties Chart.

Chapter VI - Accounting

Article 21 - The fiscal year of the Company shall be from January 1 to December 31 of each year.

At the end of each fiscal year, the Board of Directors shall prepare the following statements and reports, and shall submit the same to the annual general meeting for adoption according to the relevant legal procedures.

- 1) Report of Operations;
- 2) Financial statements;
- 3) Resolution governing the distribution of earnings or the making-up of losses.
- Article 22 In annual profit-making year, the Company should distribute 1.7% 4.3% of profit as employees' compensation, and not more than 0.17% of profit should be distributed as Directors' compensation, however, that if the Company has any accumulated losses, an amount to offset should be reserved in advance.

The Company should by a resolution adopted by a majority vote at a meeting of the Board of Directors attended by two-thirds of the total number of directors, have the profit distributable as employees' compensation in the preceding paragraph distributed in the form of share or in cash; and report at the General Meeting of shareholders.

The provisions in the two preceding Paragraphs have retrospective effect and should apply to the determination of compensation to employees and Directors for the fiscal year of 2015.

Article 22-1- After the Company has paid all taxes due at the end of each fiscal year, the Company shall make up its accumulated losses and set aside ten percent (10 %) earning as a statutory revenue reserve before distribution of earnings, except when the accumulated amount of such legal reserve equals to the Company's total authorized capital. The Company may also set aside or reverse special reserve(s) according to the business needs or laws and regulations. A minimum of fifty percent (50%) of the total amount of the remaining amount, along with the accumulated retained earnings from the previous year, shall be distributed to shareholders. Cash dividends shall not be less than fifty percent (50%) of the total dividends, but when the cash dividends fall below NT\$0.1 per share, dividends may be distributed in the form of shares.

The percentage of distribution stipulated in the preceding paragraph shall take actual profitability of the year, capital budgeting, and status of finance into consideration, and shall be executed following a resolution of shareholders' meeting.

Dividends and bonuses shall not be distributed where the Company has no earning.

Where the Company has no loss, it may distribute the capital reserve derived from the income of issuance of new shares at a premium, in whole or in part, by issuing new shares or by cash to shareholders in proportion to the number of their existing shares being held by each of them.

Article 23 - In the event that the Company issues new shares, excluding ad hoc ratification by the central competent authority, the Company shall reserve ten percent (10%) to fifteen percent (15%) of the total newly issued shares for preemptive subscription by employees of the Company.

Chapter VII - Supplementary Provisions

- Article 24 The regulations with regard to the organization of the Board of Directors and the Company shall be separately adopted.
- Article 25 Matters not specified herein shall be resolved in accordance with the Company Law.
- Article 26 This Articles of Incorporation was adopted on June 11, 1996.

DESCRIPTION OF THE REGISTRANT'S SECURITIES REGISTERED PURSUANT TO SECTION 12 OF THE SECURITIES EXCHANGE ACT OF 1934

As of December 31, 2023, Chunghwa Telecom Co., Ltd. (the "company", "we", "us" and "our") had the following series of securities registered pursuant to Section 12(b) of the Exchange Act:

Title of each class	Trade symbol	Name of each exchange on which
		<u>registered</u>
American depositary shares, each representing ten common shares	CHT	New York Stock Exchange
Common shares, par value NT\$10 per share*	N/A	New York Stock Exchange

^{*} Not for trading, but only in connection with the listing on the New York Stock Exchange of American depositary shares.

American Depositary Shares ("ADSs"), each representing ten Chunghwa Telecom Co., Ltd. common shares ("CHT Shares") are listed on the New York Stock Exchange and are registered under Section 12(b) of the Exchange Act. The following contains a description of the rights of (i) the holders of common shares and (ii) ADS holders. Shares underlying the ADSs are held by JPMorgan Chase Bank, N.A., as depositary.

Description of Ordinary Shares

The following is a summary of the rights of common shares of Chunghwa Telecom Co., Ltd. as specified in Chunghwa Telecom Co., Ltd.'s Articles of Incorporation (the "CHT Articles"), which were amended by Annual General Meeting on May 26, 2023. You are encouraged to read the CHT Articles, which are attached as an exhibit to the 2023 Form 20-F.

Type and Class of Securities

Each common share has a par value of NT\$10 per share. The number of common Shares that have been issued as of December 31, 2023 is provided on the cover of the 2023 Form 20-F. Common shares may be held in either certified or uncertified form. All of the outstanding CHT Shares are currently issued and transferred in book-entry form instead of issuing physical share certificates. See also "Item 19. Exhibits—Articles of Incorporation of Chunghwa Telecom Co., Ltd. (English translation), as last amended by Annual General Meeting on May 26, 2023" in the 2023 Form 20-F.

Preemptive Rights

Under the ROC Company Act and CHT Articles, when we issue new shares for cash, unless otherwise approved by the central competent authority, our employees have rights to subscribe for between 10% and 15% of the new issue. Except for the shares reserved in accordance with the ROC Company Act, we are required to inform its existing shareholders of their rights to subscribe for additional shares pro rata to their respective shareholding and to note that the shareholders will lose their pre-emptive right if they fail to subscribe for the new shares within the prescribed period. In the event that there is any new share that has not been subscribed by the existing shareholders or our employees pursuant to their respective pre-emptive rights, we may offer such shares to other investors through public offering or private negotiation with any person designated by us.

In addition, in accordance with the ROC Securities and Exchange Act, a public company that intends to offer new shares for cash must offer to the public at least 10% of the shares to be sold except in certain limited circumstances. This percentage can be increased by a resolution passed at a stockholders' meeting, held in accordance with the ROC Company Act and CHT Articles which would diminish the number of new shares subject to the preemptive rights of existing stockholders.

Not applicable. Other Rights Not applicable.
-
Not applicable.
Rights of the Common Shares
See "Item 19. Exhibits—Articles of Incorporation of Chunghwa Telecom Co., Ltd. (English translation), as last amended by Annual General Meeting on May 26, 2023" in the 2023 Form 20-F.
Requirements for Amendments
Not applicable.
Limitations on the Rights to Own Shares
See "Item 10. Additional Information—D. Exchange Controls" in the 2023 Form 20-F.
Provisions Affecting Any Change of Control
Not applicable.
Ownership Threshold
Not applicable.
Differences Between the Law of Different Jurisdictions
Not applicable.
Changes in Capital
Not applicable.
Debt Securities
Not applicable.
Warrants and Rights
Not applicable.
Other Securities
Not applicable.
Description of American Depositary Shares

International Commercial Bank. Each ADS also represents securities, cash or other property deposited with

ADSs are evidenced by certificates that are commonly known as American depositary receipts, or ADRs. The MOTC sold our common shares in the form of ADSs evidenced by ADRs. Our previous depositary, The Bank of New York, executed and delivered the ADRs. Each ADS represents ten common shares (or the right to receive ten common shares) which the MOTC deposited with previous custodian, Mega

the depositary but not distributed to ADS holders. Since November 2007, our depositary and custodian have changed to JPMorgan Chase Bank, N.A. On December 27, 2023, we and JPMorgan Chase Bank, N.A. further amended the deposit agreement. The current depositary's Depositary Office is located at 383 Madison Avenue, Floor 11, New York, NY 10179. The current custodian's office is located at Floor 8, No.108, Hsinyi Road, Section 5, Taipei, Taiwan, ROC.

You may hold ADSs either directly or indirectly through your broker or other financial institution. If you hold ADSs directly, you are an ADS holder. This description assumes you hold your ADSs directly. If you hold the ADRs indirectly, you must rely on the procedures of your broker or other financial institution to assert the rights of ADS holders described in this section. You should consult with your broker or financial institution to find out what those procedures are.

Because the depositary will actually hold the common shares, you must rely on it to exercise the rights of a shareholder. The obligations of the depositary are set out in a deposit agreement among us, the depositary and you, as an ADS holder.

The deposit agreement and the ADSs are generally governed by New York law. However, our obligations to our shareholders will continue to be governed by the laws of the ROC, which are different from the laws of the United States. In addition, we note that laws and regulations of the ROC may restrict the deposit and withdrawal of our common shares in or from the ADS facility.

The following is a summary of the deposit agreement. Because it is a summary, it does not contain all the information that may be important to you.

Dividends and Other Distributions

How will you receive dividends and other distributions on the shares?

The depositary has agreed to pay to you the cash dividends or other distributions it or the custodian receives on common shares or other deposited securities, after deducting taxes, fees and expenses. You will receive these distributions in proportion to the number of common shares your ADSs represent.

Cash. The depositary will convert any cash dividend or other cash distribution we pay on the common shares into U.S. dollars, if it can do so on a reasonable basis and can transfer the U.S. dollars to the United States. If that is not possible or if any approval from the government is needed and cannot be obtained, the agreement allows the depositary to distribute the NT dollars only to those ADS holders to whom it is possible to do so or, in its discretion, it will hold the NT dollars for and on your behalf if it cannot convert for the account of the ADS holders who have not been paid. It will not invest the NT dollars and it will not be liable for any interest.

Before making a distribution the depositary will deduct any withholding taxes that must be paid under ROC law. See "Item 10. Additional Information—E. Taxation—ROC Taxation—Dividends" in the 2023 Form 20-F. The depositary will distribute only whole U.S. dollars and cents and will round fractional cents to the nearest whole cent. If the exchange rates fluctuate during a time when the depositary cannot convert the NT dollars, you may lose some or all of the value of the distribution.

Common shares. The depositary may distribute new ADSs representing any common shares we distribute as a dividend or free distribution, if we furnish it promptly with satisfactory evidence that it is legal to do so. The depositary will only distribute whole ADSs. It will sell common shares which would require it to issue a fractional ADS and distribute the net proceeds in the same way as it does with cash. If the depositary does not distribute additional ADSs, subject to applicable laws and regulations, each ADS will also represent the new common shares.

Rights to receive additional common shares. If we offer holders of our securities any rights to subscribe for additional common shares or any other rights, the depositary may make these rights available to you. We must first instruct the depositary to do so and furnish it with satisfactory evidence that it is legal to do so. If

we do not furnish this evidence and/or give these instructions, and the depositary decides it is practical to sell, the depositary will sell the rights that are not exercised or distributed. The proceeds of the sale will be distributed to holders as a cash distribution. The depositary may allow rights that are not distributed or sold to lapse. In that case, you will receive no value for them.

If the depositary makes rights available to you, it will exercise the rights and purchase the common shares on your behalf. The depositary will then deposit the common shares and issue ADSs to you. It will only exercise rights if you pay it the exercise price and any other charges the rights require you to pay.

U.S. securities laws may restrict the sale, deposit, cancellation and transfer of the ADSs issued after exercise of rights. For example, you may not be able to trade the ADSs freely in the United States. In this case, the depositary may issue the ADSs under a separate restricted deposit agreement which will contain the same provisions as the agreement, except for changes needed to put the restrictions in place.

Other Distributions. The depositary will send to you anything else we distribute on deposited securities by any means it thinks is legal, fair and practical. If it cannot make the distribution in that way, the depositary has a choice. It may decide to sell what we distributed and distribute the net proceeds, in the same way as it does with cash. Or, it may decide to hold what we distributed for and on your behalf, in which case ADSs will also represent the newly distributed property.

The depositary is not responsible if it decides that it is unlawful or impractical to make a distribution available to any ADS holders. We have no obligation to register ADSs, common shares, rights or other securities under the Securities Act. We also have no obligation to take any other action to permit the distribution of ADSs, common shares, rights or anything else to ADS holders. This means that you may not receive the distributions we make on our common shares or any value for them if it is illegal or impractical for us to make them available to you.

Deposit, Withdrawal and Cancellation

How does the depositary issue ADSs?

Subject to the procedures required by ROC law described below, the depositary will issue ADSs if you or your broker deposit common shares or evidence of rights to receive common shares with the custodian. Upon payment of its fees and expenses and of any taxes or charges, such as stamp taxes or stock transfer taxes or fees, the depositary will register the appropriate number of ADSs in the names you request and will deliver the ADSs at its office to the persons you request.

Purchase by you or through us of our shares on the Taiwan Stock Exchange or delivery by you of our common shares to the custodian for deposit in our ADS facility for issuances of additional ADSs against such deposits will be permitted only to the extent that the total number of ADSs outstanding after an issuance may not exceed the number of issued ADSs previously approved by the ROC Securities and Futures Bureau (plus any ADSs created by dividends or free distributions and exercise of pre-emptive rights) and that previous issued ADSs have been cancelled.

How do ADR holders cancel an ADS and obtain common shares?

In order to withdraw our common shares represented by your ADSs, you will be required to pay to the depositary the fees for cancellation of ADSs and any charges and taxes, including stamp taxes or stock transfer taxes or fees, payable upon the transfer of our common shares. You assume the risk for delivery of all funds and securities upon withdrawal. Once canceled, the ADSs will not have any rights under the deposit agreement.

Upon surrender of ADSs and upon payment of the fees and expenses of the depositary and any taxes or other governmental charges, you may generally request the depositary to sell the common shares underlying your ADSs on your behalf. The depositary may require you to enter into a separate agreement to

arrange the sale. These sales will be conducted through a securities company in the ROC on the Taiwan Stock Exchange. You assume the risk and expense of any sale.

You will have the right to withdraw the common shares represented by your ADSs except:

- for temporary delays that may arise because (1) the transfer books for our common shares or ADSs are closed or (2) our common shares are temporarily transfer restricted due to shareholders' meeting or a payment of dividends;
- when you or other ADS holders seeking to withdraw shares owe money to pay fees, taxes and similar charges; and
- for restrictions imposed by any U.S. or foreign law or governmental regulations relating to ADSs or the withdrawal of the common shares represented by your ADSs.

The deposit agreement may not be amended to impair your right to withdraw our common shares represented by your ADSs, except in order to comply with mandatory provisions of applicable law.

If you wish to withdraw common shares from the ADS facility, you will be required to register with Taiwan Stock Exchange as a foreign investor and you will be required to appoint a local agent in the ROC and to open a securities trading account with a local brokerage firm and a bank account to remit funds, exercise stockholders' rights and perform other function as holder of ADSs may designate. Without obtaining the governmental approval, appointing the agents and opening a securities trading account and bank account, you would not be able to hold or to subsequently sell or otherwise transfer our common shares on the Taiwan Stock Exchange. In addition, you are required to appoint a local bank to act as custodian and for handling confirmation and settlement of trades, safekeeping of securities or cash proceeds and declaration of information. You also would be required to appoint a tax guarantor who will act as guarantor for your tax payment obligations.

Taiwan Disclosure Obligations

We may have various disclosure and reporting obligations to the ROC government upon the withdrawal of ADSs if:

- (a) the person to be registered as our shareholder is our "related party" under laws and regulations of the ROC and beneficially owns common shares withdrawn from the ADS facility; or
- (b) the person to be registered as the holder of the underlying common shares withdrawn against the surrender of the ADSs will then own a number of common shares withdrawn from the ADS facility exceeding 10% of the common shares represented by ADSs.

Because of these obligations, we may ask the depositary to ask you to disclose certain information to us in accordance with the deposit agreement, including the name of the beneficial owner of the ADSs delivered for cancellation, and ask you to provide proof of identity and genuineness of any signature and other documents before it will cancel your ADSs. The withdrawal of shares represented by your ADSs may be delayed until the depositary receives the information and proof so requested and satisfactory evidence of your compliance with all laws and regulations. The information you are required to provide may include the name and nationality of the beneficial owner and the number of shares the beneficial owner is withdrawing or has withdrawn in the past.

Voting Rights

You may direct the exercise of voting rights with respect to the common shares represented by ADSs only in accordance with the provisions of the deposit agreement as described below and applicable ROC law. See "Item 3. Key Information—D. Risk Factors—Risks Relating to Ownership of Our ADSs and Common Shares—You will be more restricted in your ability to exercise voting rights than the holders of our common shares, which may diminish your influence over our corporate affairs and may reduce the value of

your ADSs" in the 2023 Form 20-F. You will not have the same voting rights as the holders of our common shares, which may affect the value of your ADSs. If you wish to withdraw the common shares, you must register with the Taiwan Stock Exchange as a foreign investor, appoint a local agent and open a securities trading account with a local brokerage firm and a bank account as discussed above. Even if you do all this, however, you might not have enough time to register your common shares for voting purposes before the shareholder register is closed. See "Item 10. Additional Information—Meetings of Stockholders" and "—Register of Stockholders and Record Dates" in the 2023 Form 20-F.

Except as described below, you will not be able to exercise voting rights attaching to the common shares represented by the ADSs on an individual basis. Under the deposit agreement, a shareholder's voting rights attaching to shareholdings in a ROC company must, as to all matters subject to a vote of shareholders (other than the election of directors and supervisors), be exercised as to all shares held by the shareholder in the same manner. Accordingly, the voting rights attaching to the common shares represented by ADSs must be exercised as to all matters subject to a vote of shareholders by the depositary or its nominee, who represents all holders of ADSs, collectively in the same manner, except in the case of an election of directors and supervisors. Directors and supervisors are elected by cumulative voting.

In the deposit agreement, you will appoint the depositary as your representative to exercise the voting rights with respect to the common shares represented by your ADSs.

We will provide the depositary with copies (including English translations) of notices of meetings of our shareholders and the agenda of these meetings. These materials will contain an indication of the number of directors or supervisors to be elected if an election of directors or supervisors is to be held at the meeting. The depositary will also mail to holders a voting instruction form. In order to be valid, the holder of ADSs must complete, sign and return to the depositary the voting instruction form by a date specified by the depositary. The number of directors or supervisors to be elected may change after the depositary has mailed the voting instruction form to you. If a change were to occur, the depositary would be unable to follow your exact voting instructions and may calculate your votes according to procedures not inconsistent with the provisions of the deposit agreement.

We cannot assure you that you will receive the materials in time to ensure that you can instruct the depositary to vote the common shares represented by your ADSs. In addition, the depositary and its agents are not responsible for failing to carry out voting instructions or for the manner of carrying out voting instructions. This means that you may not be able to exercise your right to vote and there may be nothing you can do if the common shares represented by your ADSs are not voted as you requested.

Subject to the provisions described in the second succeeding paragraph, which will apply to the election of directors and supervisors, if persons together holding at least 51% of the ADSs outstanding at the relevant record date instruct the depositary to vote in the same manner in respect of one or more resolutions to be proposed at the meeting (other than the election of directors or supervisors), the depositary will notify our chairman or such person as he may designate of such instructions. The depositary will appoint the chairman or his designated person to serve as your designated representative and that of the depositary's or its nominee. The designated representative will attend the meeting and vote all the common shares represented by ADSs in the manner so instructed by you.

If, for any reason, the depositary has not by the date specified by it received instructions from persons together holding at least 51% of all the ADSs outstanding at the relevant record date to vote in the same manner in respect of any resolution specified in the agenda for a meeting (other than for the election of directors or supervisors), then you will be deemed to have instructed the depositary or its nominee to authorize and appoint the designated representative as your representative and that of the depositary's or its nominee to attend the meeting and vote all the common shares represented by all ADSs as the designated representative deems appropriate in his sole discretion with respect to the resolution or resolutions, which may not be in your interests. However, no authorization will be given with respect to any matter as to which the designated representative informs the depositary that he does not wish to be so authorized, in which event the depositary will not vote at the relevant meeting. The depositary will, however, take such

action as is necessary to cause all the common shares represented by ADSs to be counted for the purpose of satisfying applicable quorum requirements.

The depositary will notify the designated representative of the instructions for the election of directors and supervisors received from you and appoint the designated representative as your representative and that of the depositary's or its nominee to attend any meeting and vote the common shares represented by ADSs as to which the depositary has received instructions from you for the election of directors and supervisors, subject to any restrictions imposed by the law of the ROC and our articles of incorporation. If, by the date specified by the depositary, you have not delivered instructions to the depositary, you will be deemed to have instructed the depositary to authorize and appoint the designated representative as your representative and that of the depositary's or its nominee to attend the meeting and vote, at his sole discretion, all the common shares represented by ADSs as to which the depositary has not received instructions from you for the election of directors and supervisors as the designated representative deems appropriate, which may not be in your best interests. However, no authorization will be given with respect to any election of directors or supervisors as to which the designated representative informs the depositary that he does not wish to be so authorized, in which event the depositary will attend such meeting and will vote those common shares represented by the ADSs as to which it has received instructions from you for the election of directors and supervisors in the manner so instructed. The depositary will not vote at the relevant meeting any common shares evidenced by ADSs if the depositary has not received instructions from you for the election of directors and supervisors. However, the depositary will take all necessary actions to cause all common shares evidenced by the ADSs to be counted for the purpose of satisfying quorum requirements.

By continuing to hold ADSs or any interest in the ADSs, you will be deemed to have agreed to the voting provisions set forth in the deposit agreement, as these provisions may be amended from time to time.

The depositary will not, and the depositary will endeavor to ensure that the custodian and their respective nominees (including the designated representative) do not (except as described above), exercise any discretion as to voting, nor vote or attempt to exercise the right to vote that attaches to deposited securities, other than in accordance with instructions received as herein provided.

Beneficial owners of ADSs are entitled to exercise their voting rights only through the procedures applicable to the representative holder of the ADSs in which they have a beneficial interest.

When exercising voting rights on a cumulative basis for the election of directors and supervisors, the aggregate votes to be cast for each candidate will be reduced by the applicable amount. You may vote the common shares that you have withdrawn and transferred on our register of shareholders. However, you may not receive sufficient advance notice of our shareholder meetings to enable you to withdraw your shares and vote at such meetings.

Proposal Rights

Holders that individually or together with other Holders hold at least 51% of the ADSs outstanding at the relevant record date are entitled to submit each year one written proposal, or the ADS holder proposal, for voting at the general meeting of shareholders of the Company in accordance with the manner specified in the deposit agreement.

Any ADS holder proposal received by the depositary which the depositary reasonably believes to be in full compliance with the preceding paragraph shall be submitted by the depositary to us prior to the expiration of the submission period announced by us. The depositary shall withdraw any ADS holder proposal so submitted as to which the depositary has not received within three (3) Business Days after the relevant record date a certificate from the submitting ADS holder required under the deposit agreement. In determining whether any ADS holder proposal meets the requirements set forth above, the depositary may rely upon a statement set forth in a certificate from the submitting ADS holder required under the deposit agreement stating that the ADS holder proposal is in full compliance with the requirements set forth in the

preceding paragraph. The depositary has no obligation to perform any investigation in connection with any ADS holder proposal.

Notwithstanding anything contained in the deposit agreement or any ADR, the depositary shall not be obligated to provide to the holders or beneficial owners of ADSs any notices relating to the proposal rights, including, without limitation, notice of the proposal submission period, or the receipt of any ADS holder proposal from holders or beneficial owners, or of the holdings of any ADSs by any persons, except that the depositary shall, upon a holder's written request, inform such holder of the total number of ADSs then issued and outstanding.

Payment of Taxes

The depositary may deduct the amount of any taxes owed from any payment to you. It may also sell deposited securities, by public or private sale, subject to applicable laws and regulations, to pay any taxes owed. You will remain liable if the proceeds of the sale are not enough to pay the taxes. If the depositary sells deposited securities, it will, if appropriate, reduce the number of ADSs to reflect the sale and pay to you any proceeds, or send to you any property, remaining after it has paid the taxes.

Reclassifications, Recapitalizations and Mergers

If we:

- Change the nominal or par value of our common shares
- Reclassify, split up or consolidate any of the deposited securities
- Distribute securities on the common shares that are not distributed to you
- Recapitalize, reorganize, merge, liquidate, sell all or substantially all of our assets, or take any similar action

Then:

- The cash, common shares or other securities received by the depositary will become deposited securities. Subject to applicable laws and regulations, each ADS will automatically represent its equal common share of the new deposited securities.
- The depositary may, and will if we ask them to, distribute some or all of the cash, common shares or other securities it received. Subject to applicable laws and regulations, it may also issue new ADSs or ask you to surrender your outstanding ADSs in exchange for new ADSs identifying the new deposited securities.

Amendment and Termination

How may the depositary agreement be amended?

We may agree with the depositary to amend the deposit agreement and the ADSs without your consent for any reason. If the amendment adds or increases fees or charges, except for taxes and other governmental charges or certain expenses of the depositary, or prejudices an important right of ADS holders, it will only become effective 30 days after the depositary notifies you of the amendment. In no event may any amendment impair your right to surrender your ADSs and receive the common shares represented thereby, except in order to comply with mandatory provisions of applicable law. At the time an amendment becomes effective, you are considered, by continuing to hold your ADSs, to agree to the amendment and to be bound by the ADSs and the agreement as amended.

How may the depositary agreement be terminated?

The depositary will terminate the deposit agreement if we ask it to do so. The depositary may also terminate the agreement if the depositary has told us that it would like to resign and we have not appointed a new depositary bank within 180 days. In both cases, the depositary must notify you at least 30 days before termination.

After termination, the depositary and its agents will be required to do only the following under the agreement:

- advise you that the agreement is terminated;
- collect distributions on the deposited securities; and
- deliver common shares and other deposited securities upon cancellation of ADSs.

One year after termination, the depositary will, if practical, sell any remaining deposited securities by public or private sale, subject to applicable laws and regulations. After that, the depositary will hold the money it received on the sale, as well as any other cash it is holding under the agreement, for the pro rata benefit of the ADS holders that have not surrendered their ADSs. It will not invest the money and has no liability for interest. The depositary's only obligations will be to account for the money and other cash and with respect to indemnification. After termination, our only obligations will be with respect to indemnification and to pay certain amounts to the depositary.

Limitations on Obligations and Liability to ADS Holders

Limits on our Obligations and the Obligations of the Depositary; Limits on Liability to Holders of ADSs

The deposit agreement expressly limits our obligations and the obligations of the depositary. It also limits our liability and the liability of the depositary. We and the depositary:

- are only obligated to take the actions specifically set forth in the deposit agreement without negligence or bad faith;
- are not liable if either of us is prevented or delayed by law or circumstances beyond our control from performing our obligations under the deposit agreement;
- are not liable if either of us exercises discretion permitted under the deposit agreement;
- have no obligation to become involved in a lawsuit or other proceeding related to the ADSs or the deposit agreement on your behalf or on behalf of any other party; and
- may rely upon any documents we believe in good faith to be genuine and to have been signed or presented by the proper party.

In the deposit agreement, we and the depositary agree to indemnify each other under certain circumstances.

Requirements for Depositary Actions

Before the depositary will issue or register transfer of an ADS, make a distribution on an ADS, or permit withdrawal of common shares, the depositary may require:

- payment of stock transfer or other taxes or other governmental charges and transfer or registration fees charged by third parties for the transfer of any common shares or other deposited securities;
- production of satisfactory proof of the identity and genuineness of any signature or other information it deems necessary; and
- compliance with regulations it may establish, from time to time, consistent with the deposit agreement, including presentation of transfer documents.

The depositary may refuse to deliver, transfer or register transfers of ADSs generally when the transfer books of the depositary, our company or the registrar in Taiwan are closed or at any time if the depositary or our company thinks it advisable to do so.

Ownership Restrictions

We may restrict deposits of our common shares where such deposit might result in ownership or beneficial ownership of our common shares that exceed the limits under applicable law or our articles of incorporation. We may instruct the depositary to take action with respect to the ownership interest of any holder in excess of any such limitation, including but not limited to refusing to accept common shares for deposit from a holder in excess of the applicable limitation if a deposit of common shares would result in a violation of the applicable limitations, to the extent such action is permitted by applicable law.

LIST OF SUBSIDIARIES

(as of March 31, 2024)

NAME OF ENTITY	JURISDICTION OF INCORPORATION
CHIEF Telecom Inc.	Taiwan, R.O.C.
Unigate Telecom Inc.	Taiwan, R.O.C.
CHYP Multimedia Marketing & Communications Co., Ltd.	Taiwan, R.O.C.
Chunghwa Investment Co., Ltd.	Taiwan, R.O.C.
Chunghwa Precision Test Tech. Co., Ltd.	Taiwan, R.O.C.
Chunghwa System Integration Co., Ltd.	Taiwan, R.O.C.
Light Era Development Co., Ltd.	Taiwan, R.O.C.
Senao International Co., Ltd.	Taiwan, R.O.C.
Youth Co., Ltd.	Taiwan, R.O.C.
ISPOT Co., Ltd.	Taiwan, R.O.C.
Aval Technologies Co., Ltd.	Taiwan, R.O.C.
Wiin Technology Co., Ltd.	Taiwan, R.O.C.
Senyoung Insurance Agent Co., Ltd.	Taiwan, R.O.C.
Spring House Entertainment Tech. Inc.	Taiwan, R.O.C.
Honghwa International Co., Ltd.	Taiwan, R.O.C.
Chunghwa Sochamp Technology Inc.	Taiwan, R.O.C.
Smartfun Digital Co., Ltd.	Taiwan, R.O.C.
Chunghwa Leading Photonics Tech Co., Ltd.	Taiwan, R.O.C.
CHT Security Co., Ltd.	Taiwan, R.O.C.
International Integrated Systems, Inc.	Taiwan, R.O.C.
Unitronics Technology Corp.	Taiwan, R.O.C.
TestPro Investment Co., Ltd.	Taiwan, R.O.C.
NavCore Tech. Co., Ltd.	Taiwan, R.O.C.
Chunghwa Digital Cultural and Creative Capital Co., Ltd	Taiwan, R.O.C.
Prime Asia Investments Group Ltd.	British Virgin Islands
Donghwa Telecom Co., Ltd.	Hong Kong
Chunghwa Hsingta Co., Ltd.	Hong Kong
Chunghwa Telecom Japan Co., Ltd.	Japan
CHPT Japan Co., Ltd.	Japan
Chief International Corp.	Samoa Islands
Chunghwa Precision Test Tech. International, Ltd.	Samoa Islands
Shanghai Taihua Electronic Technology Limited	People's Republic of China
Su Zhou Precision Test Tech. Ltd.	People's Republic of China
Shanghai Chief Telecom Co., Ltd.	People's Republic of China
Chunghwa Telecom Singapore Pte., Ltd.	Singapore
Chunghwa Telecom Global, Inc.	United States of America
Chunghwa Precision Test Tech USA Corporation	United States of America
Chunghwa Telecom Vietnam Co., Ltd.	Vietnam
Chunghwa Telecom (Thailand) Co., Ltd.	Thailand

CERTIFICATION BY THE CHIEF EXECUTIVE OFFICER PURSUANT TO SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002

I, Shui-Yi Kuo, certify that:

- 1. I have reviewed this annual report on Form 20-F of Chunghwa Telecom Co., Ltd.;
- 2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
- 3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the company as of, and for, the periods presented in this report;
- 4. The company's other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the company and have:
 - (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the company, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - (c) Evaluated the effectiveness of the company's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - (d) Disclosed in this report any change in the company's internal control over financial reporting that occurred during the period covered by the annual report that has materially affected, or is reasonably likely to materially affect, the company's internal control over financial reporting; and
- 5. The company's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the company's auditors and the audit committee of the company's board of directors (or persons performing the equivalent functions):
 - (a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the company's ability to record, process, summarize and report financial information; and
 - (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the company's internal control over financial reporting.

Date: April 17, 2024

By: /s/ SHUI-YI KUO

Name: Shui-Yi Kuo

Title: Chairman and Chief Executive Officer

CERTIFICATION BY THE CHIEF FINANCIAL OFFICER PURSUANT TO SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002

I, Yu-Shen Chen, certify that:

- 1. I have reviewed this annual report on Form 20-F of Chunghwa Telecom Co., Ltd.;
- 2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
- 3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the company as of, and for, the periods presented in this report;
- 4. The company's other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the company and have:
 - (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the company, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - (c) Evaluated the effectiveness of the company's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - (d) Disclosed in this report any change in the company's internal control over financial reporting that occurred during the period covered by the annual report that has materially affected, or is reasonably likely to materially affect, the company's internal control over financial reporting; and
- 5. The company's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the company's auditors and the audit committee of the company's board of directors (or persons performing the equivalent functions):
 - (a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the company's ability to record, process, summarize and report financial information; and
 - (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the company's internal control over financial reporting.

Date: April 17, 2024

By: /s/ YU-SHEN CHEN
Name: Yu-Shen Chen

Title: Chief Financial Officer

CERTIFICATION BY THE CHIEF EXECUTIVE OFFICER PURSUANT TO SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002

In connection with the Annual Report on Form 20-F of Chunghwa Telecom Co., Ltd. (the "Company") for the year ended December 31, 2023 as filed with the Securities and Exchange Commission on the date hereof (the "Report"), I, Shui-Yi Kuo, Chairman and Chief Executive Officer of the company, certify, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that to my knowledge:

- (1) The Report fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934; and
- (2) The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the company.

Date: April 17, 2024

By: /s/ SHUI-YI KUO

Name: Shui-Yi Kuo

Title: Chairman and Chief Executive Officer

CERTIFICATION BY THE CHIEF FINANCIAL OFFICER PURSUANT TO SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002

In connection with the Annual Report on Form 20-F of Chunghwa Telecom Co., Ltd. (the "Company") for the year ended December 31, 2023 as filed with the Securities and Exchange Commission on the date hereof (the "Report"), I, Yu-Shen Chen, Chief Financial Officer of the company, certify, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that to my knowledge:

- (1) The Report fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934; and
- (2) The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the company.

Date: April 17, 2024

By: /s/ YU-SHEN CHEN

Name: Yu-Shen Chen

Title: Chief Financial Officer

April 17, 2024 Securities and Exchange Commission 100 F Street, N.E. Washington, D.C. 20549-7561

Dear Sirs/Madams:

We have read Item 16F of Chunghwa Telecom Co., Ltd.'s Annual Report on Form 20-F dated April 17, 2024 (the "Annual Report"), and have the following comments:

- 1. We agree with the statements made in the first sentence of the first paragraph and the second, third, and fourth paragraphs of Item 16F of the Annual Report.
- 2. We have no basis on which to agree or disagree with the statements made in the last sentence of the first paragraph and the fifth paragraph of Item 16F of the Annual Report.

Yours truly,

/s/ DELOITTE & TOUCHE

Deloitte & Touche Taipei, Taiwan Republic of China Exhibit 97

Incentive Compensation Clawback Policy of Chunghwa Telecom Co., Ltd.

All of 11 articles adopted by the 10th Board of Directors at the 8th meeting on November 8, 2023.

1. Overview

Chunghwa Telecom Co., Ltd. (the "Company") has adopted this Incentive Compensation Clawback Policy of Chunghwa Telecom Co., Ltd. (the "Policy") which requires the recoupment of certain incentive-based compensation in accordance with the terms herein and is intended to comply with Section 303A.14 of The New York Stock Exchange Listed Company Manual, as such section may be amended from time to time (the "Listing Rules").

2. Restatement

"Restatement" shall mean an accounting restatement due to the material noncompliance of the Company with any financial reporting requirement under the securities laws, including restatements that correct errors that are material to previously issued financial statements, or correct errors that are not material to previously issued financial statements but would result in a material misstatement if the errors were corrected in the current period or left uncorrected in the current period.

3. Covered Executives

The Policy applies to each current and former Executive Officer of the Company (including the Company's chief executive officer, president, senior executive vice presidents, president of business group and the president for each of Telecommunication Laboratories and Telecommunication Training Institute) who serves or served as an Executive O□cer at any time during a performance period in respect of which Incentive Compensation is Received (the "Covered Executives"), to the extent that any portion of such Incentive Compensation is (a) Received by the Executive Officer during the last three completed Fiscal Years or any applicable Transition Period preceding the date that the Company is required to prepare a Restatement (regardless of whether any such Restatement is actually filed) and (b) determined to have included Erroneously Awarded Compensation.

For purposes of determining the relevant period referenced in the preceding clause (a), the date that the Company is required to prepare a Restatement under the Policy is the earlier to occur of (i) the date that the Audit Committee of the Board of Directors and the Board of Directors (the "Board") approve and determine that the Company is required to prepare a Restatement or (ii) the date a court, regulator, or other legally authorized body directs the Company to prepare a Restatement.

4. Incentive Compensation

"Incentive Compensation" shall mean any compensation (whether cash or equity-based) that is granted, earned, or vested based wholly or in part upon the attainment of a Financial Reporting Measure, and may include, but shall not be limited to, performance bonuses and long-term incentive awards. For the avoidance of doubt, Incentive Compensation does not include (i) awards that are granted, earned and vested exclusively upon completion of a specified employment period, without any performance condition, and (ii) bonus awards that are discretionary or based on subjective goals or goals unrelated to Financial Reporting Measures.

Notwithstanding the foregoing, compensation amounts shall not be considered "Incentive Compensation" for purposes of the Policy unless such compensation is Received (1) while the Company has a class of securities listed on a national securities exchange or a national securities association and (2) on or after October 2, 2023, the effective date of the Listing Rules.

Incentive Compensation shall be deemed "Received" in the Company's fiscal period during which the Financial Reporting Measure specified in the Incentive Compensation award is attained, even if the payment or grant of the Incentive Compensation occurs after the end of that period.

5. Erroneously Awarded Compensation

"Erroneously Awarded Compensation" shall mean the amount of Incentive Compensation actually Received that exceeds the amount of Incentive Compensation that otherwise would have been Received had it been determined based on the restated amounts, and computed without regard to any taxes paid.

For Incentive Compensation based on stock price or total shareholder return, where the amount of erroneously awarded Incentive Compensation is not subject to mathematical recalculation directly from the information in a Restatement, the calculation of Erroneously Awarded Compensation shall be based on a reasonable estimate of the effect of the Restatement on the stock price or total shareholder return upon which the Incentive Compensation was Received.

The Company shall maintain documentation of the determination of the reasonable estimate referred to in Paragraph 2 of this Clause 5 and provide such documentation to the New York Stock Exchange (the "Exchange").

6. Recovery of Erroneously Awarded Compensation

If any Erroneously Awarded Compensation is Received by a Covered Executive, the Company shall reasonably promptly take steps to recover such Erroneously Awarded Compensation in a manner described under this Policy.

To the extent the Covered Executive refuses to pay to the Company an amount equal to the Erroneously Awarded Compensation, the Company shall have the right to sue for repayment and/or enforce the Covered Executive's obligation to make payment through the reduction or cancellation of outstanding and future compensation.

7. Exceptions to the Recovery Requirement

Notwithstanding anything in this Policy to the contrary, Erroneously Awarded Compensation need not be recovered pursuant to this Policy if the Compensation Committee of the Board (the "Compensation Committee") determines that recovery would be impracticable as a result of any of the following:

- (a) the direct expense paid to a third party to assist in enforcing the Policy would exceed the amount to be recovered; provided that, before concluding that it would be impracticable to recover any amount of Erroneously Awarded Compensation based on expense of enforcement, the Company must make a reasonable attempt to recover such Erroneously Awarded Compensation, document such reasonable attempt(s) to recover, and provide that documentation to the Exchange;
- (b) recovery would violate the laws of the Republic of China (the "ROC") where that law was adopted prior to November 28, 2022; provided that, before concluding that it would be impracticable to recover any amount of Erroneously Awarded Compensation based on violation of ROC laws, the Company must obtain an opinion of the counsel of the ROC, acceptable to the Exchange, that recovery would result in such a violation, and must provide such opinion to the Exchange; or
- (c) recovery would likely cause an otherwise tax-qualified retirement plan, under which benefits are broadly available to employees of the Company, to fail to meet the requirements of 26 U.S.C. 401(a)(13) or 26 U.S.C. 411(a) and the regulations thereunder.

8. No Indemnification

The Company shall not indemnify any Covered Executive against the loss of any Erroneously Awarded Compensation for which the Compensation Committee has determined to seek recoupment pursuant to this Policy.

9. Non-Exclusivity

Nothing in the Policy shall be viewed as limiting the right of the Company or the Compensation Committee to pursue additional remedies or recoupment under or as required by any similar policy adopted by the Company or under the Company's compensation plans, award agreements, employment agreements or similar agreements or the applicable provisions of any law, rule or

regulation which may require or permit recoupment to a greater degree or with respect to additional compensation as compared to this Policy (but without duplication as to any recoupment already made with respect to Erroneously Awarded Compensation pursuant to this Policy).

This Policy shall be interpreted in all respects to comply with the Listing Rules.

10. Successors

To the extent permitted by applicable law, the Policy shall be binding and enforceable against all Covered Executives and their beneficiaries, heirs, executors, administrators or other legal representatives.

11. Effectiveness

The Policy shall be effective upon approval of the Board. Any amendment hereof shall require the same process.

Note:

Note 1: Transition Period

"Transition Period" shall mean any period between the last day of the Company's previous fiscal year end and the first day of its new fiscal year that results from a change in the Company's Fiscal Year within or immediately following the three completed Fiscal Years immediately preceding the Company's requirement to prepare a Restatement.

Note 2: Fiscal Year

"Fiscal Year" shall mean the Company's fiscal year; provided that a Transition Period that comprises a period of nine to 12 months will be deemed a completed fiscal year.

Note 3: Financial Reporting Measures

"Financial Reporting Measures" shall mean measures that are determined and presented in accordance with the accounting principles used in preparing the Company's financial statements, and any measures that are derived wholly or in part from such measures, including, without limitation, stock price and total shareholder return (in each case, regardless of whether such measures are presented within the Company's financial statements or included in a filing with the Securities and Exchange Commission).

Acknowledgment of Incentive Compensation Clawback Policy

The Incentive Compensation Clawback Policy of Chunghwa Telecom Co., Ltd. (the "*Company*") was adopted on November 8, 2023 pursuant to Section 303A.14 of the New York Stock Exchange Listed Company Manual (the "*Policy*"). Capitalized terms used herein without definition have the meanings assigned to such terms under the Policy.

By signing below, the undersigned acknowledges, confirms and agrees that;

- the undersigned has received and reviewed a copy of the Policy;
- the undersigned is, and will continue to be, subject to the Policy to the extent provided therein;
- the Policy may apply both during and after termination of the undersigned's engagement with the Company; and
- the undersigned agrees to abide by the terms of the Policy, including, without limitation, by returning any Erroneously Awarded Compensation to the Company pursuant to the Policy.

Signature
Print Name
Date