

**CONSOLIDATED FINANCIAL STATEMENTS OF
SAMSUNG ELECTRONICS CO., LTD. AND ITS SUBSIDIARIES
INDEX TO FINANCIAL STATEMENTS**

	Page
Independent Auditors' Report	1-5
Consolidated Financial Statements	
Consolidated Statements of Financial Position	6-8
Consolidated Statements of Profit or Loss	9
Consolidated Statements of Comprehensive Income	10
Consolidated Statements of Changes in Equity	11-14
Consolidated Statements of Cash Flows	15-16
Notes to the Consolidated Financial Statements	17

Independent Auditors' Report

[English Translation of Independent Auditors' Report Originally Issued in Korean on February 17, 2021]

To the Shareholders and the Board of Directors of Samsung Electronics Co., Ltd.

Audit Opinion

We have audited the consolidated financial statements of Samsung Electronics Co., Ltd. and its subsidiaries (the "Company"), which comprise the consolidated statement of financial position as of December 31, 2020, and the consolidated statement of profit or loss, the consolidated statement of comprehensive income, the consolidated statement of changes in equity and the consolidated statement of cash flows, for the year then ended, and notes to the consolidated financial statements, including a summary of significant accounting policies.

In our opinion, the accompanying consolidated financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2020, and its financial performance and its cash flows for the year then ended in accordance with Korean International Financial Reporting Standards ("K-IFRS").

Basis for Audit Opinion

We conducted our audit in accordance with the Korean Standards on Auditing ("KSAs"). Our responsibilities under those standards are further described in the *Auditor's Responsibilities for the Audit of the Consolidated Financial Statements* section of our report. We are independent of the Company in accordance with the ethical requirements that are relevant to our audit of the consolidated financial statements in the Republic of Korea, and we have fulfilled our other ethical responsibilities in accordance with these requirements. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

Key Audit Matters

The key audit matters are those matters that, in our professional judgment, were of most significance in our audit of the consolidated financial statements of the current period. These matters were addressed in the context of our audit of the consolidated financial statements as a whole, and in forming our opinion thereon, and we do not provide a separate opinion on these matters.

(A) Sales deduction related to sales promotion activities

Reasons why the matter was determined to be a key audit matter:

The Information technology & Mobile communications (IM) and Consumer Electronics (CE) business divisions perform sales promotion activities, such as price discounts and incentives, based on explicit or implicit agreements with customers, including retail and telecommunication companies. As disclosed in Notes 2.24 (Revenue Recognition) and 3 (Critical Accounting Estimates and Assumptions), these activities are recognized as deductions from revenue at the expected payment amount.

As for the appropriateness of the revenue deduction amounts, such amounts may involve significant management estimates and judgments. In addition, we believe that those amounts could be material to the consolidated financial statements. As such, we determined the sales deduction related to sales promotion activities as a key audit matter.

How the Key Audit Matter was addressed in the Audit

Our audit procedures with respect to the Company's sales promotion activities related to the sales of products are as follows:

- Obtained an understanding of management's accounting policies, processes and internal controls related to the sales deduction.
- Obtained an understanding and evaluated the Company's system related to the sales deduction.
- Evaluated the Company's internal controls relating to the approval process of the sales deduction policy.
- Evaluated the Company's internal controls relating to the approval process of the sales deduction estimation and post-settled amounts.
- Verified the estimates by inspecting supporting documentation relating to the sales deduction transactions.
- Examined the sales deduction amount by comparing the sales deduction estimates to post-settled amounts and inspecting supporting documentation.

Deloitte.

(B) Impairment of goodwill and intangible assets with indefinite useful lives

Reasons why the matter was determined to be a key audit matter:

As of December 31, 2020, the Company has goodwill and intangible assets with indefinite useful lives of the Harman business division (refer to Note 11). As disclosed in Notes 2.12 (Impairment of Non-Financial Assets) and 3 (Critical Accounting Estimates and Assumptions), the Company assesses goodwill for the impairment by comparing the carrying amounts of cash-generating units (or groups of cash-generating units) to the recoverable amounts. The recoverable amounts of cash-generating units or groups have been determined based on value-in-use calculations, and these calculations are based on the estimated future cash flows. The key assumptions and estimates used in the recoverable amount calculations may involve significant management estimates and judgments, such as discount rates, growth rates, and projected future cash flows, and the recoverable amounts could be material to the consolidated financial statements. For these reasons, we determined the impairment of goodwill and intangible assets with indefinite useful lives as a key audit matter.

How the Key Audit Matter was addressed in the Audit

Our audit procedures performed on the impairment of goodwill and intangible assets with indefinite useful lives of the Harman business division are as follows:

- Examined the objectivity and competency of the external experts used by management.
- Obtained an understanding of management’s accounting policies, processes and internal controls related to the impairment of goodwill and intangible assets with indefinite useful lives.
- Verified management’s determination of cash generating unit and the appropriateness of net assets allocated to each cash-generating unit.
- Examined external data and performed a retrospective review to verify the estimates used in the business plans (such as sales estimates and growth rates).
- Verified the validity of discount rates, perpetual growth rates, and Guideline Public Companies (“GPCs”) applied to the valuation using the work performed by the internal valuation specialists.
- Verified recoverable amounts by examining the accuracy of calculation of valuation amount and using a sensitivity analysis.

Other Matters

The consolidated financial statements of the Company as of and for the year ended December 31, 2019, were audited by Samil PwC, in accordance with the KSAs, whose audit report dated February 21, 2020, expressed an unmodified opinion on those consolidated financial statements.



Responsibilities of Management and Those Charged with Governance for the Consolidated Financial Statements

Management is responsible for the preparation of the accompanying consolidated financial statements in accordance with K-IFRS, and for such internal control as they determine is necessary to enable the preparation of consolidated financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the consolidated financial statements, management of the Company is responsible for assessing the Company's ability to continue as a going concern, disclosing, as applicable, matters related to going concern and using the going concern basis of accounting unless management either intends to liquidate the Company or to cease operations, or has no realistic alternative but to do so.

Those charged with governance are responsible for overseeing the Company's financial reporting process.

Auditor's Responsibilities for the Audit of the Consolidated Financial Statements

Our objectives are to obtain reasonable assurance about whether the consolidated financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinion. Reasonable assurance is a high level of assurance, but is not a guarantee that an audit conducted in accordance with KSAs will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of these consolidated financial statements.

As part of an audit in accordance with KSAs, we exercise professional judgment and maintain professional skepticism throughout the audit. We also:

- Identify and assess the risks of material misstatement of the consolidated financial statements, whether due to fraud or error, design and perform audit procedures responsive to those risks, and obtain audit evidence that is sufficient and appropriate to provide a basis for our audit opinion. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control.
- Evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by management.
- Conclude on the appropriateness of the management's use of the going concern basis of accounting and, based on the audit evidence obtained, whether a material uncertainty exists related to events or conditions that may cast significant doubt on the Company's ability to continue as a going concern. If we conclude that a material uncertainty exists, we are required to draw attention in our auditor's report to the related disclosures in the consolidated financial statements or, if such disclosures are inadequate, to modify our opinion. Our conclusions are based on the audit evidence obtained up to the date of our auditor's report. However, future events or conditions may cause the Company to cease to continue as a going concern.

Deloitte.

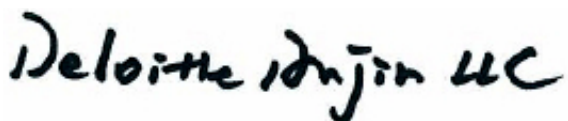
- Evaluate the overall presentation, structure and content of the consolidated financial statements, including the disclosures, and whether the consolidated financial statements represent the underlying transactions and events in a manner that achieves fair presentation.
- Obtain sufficient appropriate audit evidence regarding the financial information of the entities or business activities within the Company to express an opinion on the consolidated financial statements. We are responsible for the direction, supervision and performance of the group audit. We are solely responsible for our audit opinion.

We communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit and significant audit findings, including any significant deficiencies in internal control that we identify during our audit.

We also provide those charged with governance with a statement that we have complied with relevant ethical requirements regarding independence, and to communicate with them all relationships and other matters that may reasonably be thought to bear on our independence, and where applicable, related safeguards.

From the matters communicated with those charged with governance, we determine those matters that were of most significance in the audit of the consolidated financial statements of the current period and are therefore the key audit matters. We describe these matters in our auditor's report unless law or regulation precludes public disclosure about the matter or when, in extremely rare circumstances, we determine that a matter should not be communicated in our report because the adverse consequences of doing so would reasonably be expected to outweigh the public interest benefits of such communication.

The engagement partner on the audit resulting in this independent auditor's report is Byung Moon Yoo.



Seoul, Korea

February 17, 2021

Notice to Readers

This report is effective as of February 17, 2021, the auditors' report date. Certain subsequent events or circumstances may have occurred between the auditors' report date and the time the auditors' report is read. Such events or circumstances could significantly affect the financial statements and may result in modifications to the auditors' report.

Samsung Electronics Co., Ltd. and its subsidiaries

CONSOLIDATED STATEMENTS OF FINANCIAL POSITION

(In millions of Korean won, in thousands of US dollars (Note 2.29))

	Notes	December 31, 2020 KRW	December 31, 2019 KRW	December 31, 2020 USD	December 31, 2019 USD
Assets					
Current assets					
Cash and cash equivalents	4, 28	29,382,578	26,885,999	24,890,848	22,775,922
Short-term financial instruments	4, 28	92,441,703	76,252,052	78,310,091	64,595,361
Short-term financial assets at amortized cost	4, 28	2,757,111	3,914,216	2,335,630	3,315,848
Short-term financial assets at fair value through profit or loss	4, 6, 28	71,451	1,727,436	60,528	1,463,362
Trade receivables	4, 5, 7, 28	30,965,058	35,131,343	26,231,413	29,760,796
Non-trade receivables	4, 7, 28	3,604,539	4,179,120	3,053,511	3,540,256
Prepaid expenses		2,266,100	2,406,220	1,919,680	2,038,380
Inventories	8	32,043,145	26,766,464	27,144,693	22,674,661
Other current assets	4, 28	3,754,462	4,122,410	3,180,515	3,492,215
Assets held-for-sale	32	929,432	-	787,350	-
		198,215,579	181,385,260	167,914,259	153,656,801
Non-current assets					
Financial assets at fair value through other comprehensive income	4, 6, 28	12,575,216	8,920,712	10,652,836	7,556,998
Financial assets at fair value through profit or loss	4, 6, 28	1,202,969	1,049,004	1,019,070	888,642
Investment in associates and joint ventures	9	8,076,779	7,591,612	6,842,078	6,431,078
Property, plant and equipment	10	128,952,892	119,825,474	109,239,795	101,507,691
Intangible assets	11	18,468,502	20,703,504	15,645,212	17,538,548
Net defined benefit assets	14	1,355,502	589,832	1,148,286	499,664
Deferred income tax assets	25	4,275,000	4,505,049	3,621,478	3,816,360
Other non-current assets	4, 7, 28	5,113,279	7,994,050	4,331,610	6,771,995
		180,020,139	171,179,237	152,500,365	145,010,976
Total assets		378,235,718	352,564,497	320,414,624	298,667,777

The above consolidated statements of financial position should be read in conjunction with the accompanying notes.

Samsung Electronics Co., Ltd. and its subsidiaries

CONSOLIDATED STATEMENTS OF FINANCIAL POSITION

(In millions of Korean won, in thousands of US dollars (Note 2.29))

	Notes	December 31, 2020 KRW	December 31, 2019 KRW	December 31, 2020 USD	December 31, 2019 USD
Liabilities and Equity					
Current liabilities					
Trade payables	4, 28	9,739,222	8,718,222	8,250,382	7,385,463
Short-term borrowings	4, 5, 12, 28	16,553,429	14,393,468	14,022,898	12,193,131
Other payables	4, 28	11,899,022	12,002,513	10,080,012	10,167,683
Advances received	17	1,145,423	1,072,062	970,322	908,175
Withholdings	4, 28	974,521	897,355	825,545	760,176
Accrued expenses	4, 17, 28	24,330,339	19,359,624	20,610,947	16,400,108
Current income tax liabilities		4,430,272	1,387,773	3,753,014	1,175,623
Current portion of long-term liabilities	4, 12, 13, 28	716,099	846,090	606,629	716,748
Provisions	15	4,349,563	4,068,627	3,684,643	3,446,654
Other current liabilities	4, 17, 28	1,127,719	1,037,030	955,324	878,499
Liabilities held-for-sale	32	338,742	-	286,958	-
		75,604,351	63,782,764	64,046,674	54,032,260
Non-current liabilities					
Debentures	4, 13, 28	948,137	975,298	803,195	826,204
Long-term borrowings	4, 12, 28	1,999,716	2,197,181	1,694,018	1,861,297
Long-term other payables	4, 28	1,682,910	2,184,249	1,425,643	1,850,342
Net defined benefit liabilities	14	464,458	470,780	393,456	398,812
Deferred income tax liabilities	25	18,810,845	17,053,808	15,935,221	14,446,783
Long-term provisions	15	1,051,428	611,100	890,696	517,681
Other non-current liabilities	4, 17, 28	1,725,857	2,408,896	1,462,023	2,040,645
		26,683,351	25,901,312	22,604,252	21,941,764
Total liabilities		102,287,702	89,684,076	86,650,926	75,974,024

The above consolidated statements of financial position should be read in conjunction with the accompanying notes.

Samsung Electronics Co., Ltd. and its subsidiaries

CONSOLIDATED STATEMENTS OF FINANCIAL POSITION

(In millions of Korean won, in thousands of US dollars (Note 2.29))

	Notes	December 31, 2020 KRW	December 31, 2019 KRW	December 31, 2020 USD	December 31, 2019 USD
Equity attributable to owners of the Company					
Preference shares	18	119,467	119,467	101,204	101,204
Ordinary shares	18	778,047	778,047	659,107	659,107
Share premium		4,403,893	4,403,893	3,730,668	3,730,668
Retained earnings	19	271,068,211	254,582,894	229,629,870	215,664,672
Other components of equity	20	(8,687,155)	(4,968,829)	(7,359,145)	(4,209,241)
Accumulated other comprehensive income attributable to assets held-for-sale	32	(12,132)	-	(10,277)	-
		267,670,331	254,915,472	226,751,427	215,946,410
Non-controlling interests	31	8,277,685	7,964,949	7,012,271	6,747,343
Total equity		275,948,016	262,880,421	233,763,698	222,693,753
Total liabilities and equity		378,235,718	352,564,497	320,414,624	298,667,777

The above consolidated statements of financial position should be read in conjunction with the accompanying notes.

Samsung Electronics Co., Ltd. and its subsidiaries

CONSOLIDATED STATEMENTS OF PROFIT OR LOSS

(In millions of Korean won, in thousands of US dollars (Note 2.29))

	Notes	For the years ended December 31,			
		2020	2019	2020	2019
		KRW	KRW	USD	USD
Revenue	29	236,806,988	230,400,881	200,606,179	195,179,376
Cost of sales	21	144,488,296	147,239,549	122,400,294	124,730,961
Gross profit		92,318,692	83,161,332	78,205,885	70,448,415
Selling and administrative expenses	21, 22	56,324,816	55,392,823	47,714,412	46,924,893
Operating profit	29	35,993,876	27,768,509	30,491,473	23,523,522
Other non-operating income	23	1,384,068	1,778,666	1,172,485	1,506,760
Other non-operating expense	23	2,488,902	1,414,707	2,108,422	1,198,440
Share of net profit of associates and joint ventures	9	506,530	412,960	429,096	349,831
Financial income	24	12,267,600	10,161,632	10,392,246	8,608,218
Financial expense	24	11,318,055	8,274,871	9,587,858	7,009,887
Profit before income tax		36,345,117	30,432,189	30,789,020	25,780,004
Income tax expense	25	9,937,285	8,693,324	8,418,167	7,364,371
Profit for the year		26,407,832	21,738,865	22,370,853	18,415,633
Profit attributable to					
Owners of the Company		26,090,846	21,505,054	22,102,325	18,217,565
Non-controlling interests		316,986	233,811	268,528	198,068
Earnings per share (in Korean won, in US dollars)	26				
- Basic		3,841	3,166	3.25	2.68
- Diluted		3,841	3,166	3.25	2.68

The above consolidated statements of profit or loss should be read in conjunction with the accompanying notes.

Samsung Electronics Co., Ltd. and its subsidiaries

CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME

(In millions of Korean won, in thousands of US dollars (Note 2.29))

	Notes	For the years ended December 31,			
		2020	2019	2020	2019
		KRW	KRW	USD	USD
Profit for the year		26,407,832	21,738,865	22,370,853	18,415,633
Other comprehensive income (loss)					
Items that will not be reclassified subsequently to profit or loss:					
Gain on valuation of financial assets at fair value through other comprehensive income, net of tax	6, 20	2,502,733	1,146,599	2,120,139	971,318
Share of other comprehensive income (loss) of associates and joint ventures, net of tax	9, 20	5,591	(16,896)	4,736	(14,313)
Remeasurement of net defined benefit assets, net of tax	14, 20	(719,560)	(1,180,468)	(609,560)	(1,000,009)
Items that may be reclassified subsequently to profit or loss:					
Share of other comprehensive income (loss) of associates and joint ventures, net of tax	9, 20	(48,888)	48,649	(41,414)	41,212
Gain (loss) on overseas business translation, net of tax	20	(5,380,375)	3,016,499	(4,557,874)	2,555,365
Gain (loss) on valuation of cash flow hedge derivatives	20	(33,406)	1,811	(28,300)	1,534
Other comprehensive income (loss) for the year, net of tax		(3,673,905)	3,016,194	(3,112,273)	2,555,107
Total comprehensive income for the year		22,733,927	24,755,059	19,258,580	20,970,740
Comprehensive income attributable to:					
Owners of the Company		22,374,398	24,466,985	18,954,012	20,726,704
Non-controlling interests		359,529	288,074	304,568	244,036

The above consolidated statements of comprehensive income should be read in conjunction with the accompanying notes.

Samsung Electronics Co., Ltd. and its subsidiaries

CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY

(In millions of Korean won)

2019 KRW	Notes	Preference shares	Ordinary shares	Share premium	Retained earnings	Other components of equity	Equity attributable to owners of the parent company	Non-controlling interests	Total
Balance as of January 1, 2019		119,467	778,047	4,403,893	242,698,956	(7,931,370)	240,068,993	7,684,184	247,753,177
Profit for the year		-	-	-	21,505,054	-	21,505,054	233,811	21,738,865
Gain (loss) on valuation of financial assets at fair value through other comprehensive income, net of tax	6, 20	-	-	-	(1,265)	1,111,264	1,109,999	36,600	1,146,599
Share of other comprehensive income (loss) of associates and joint ventures, net of tax	9, 20	-	-	-	(608)	31,477	30,869	884	31,753
Gain on overseas business translation, net of tax	20	-	-	-	-	2,966,973	2,966,973	49,526	3,016,499
Remeasurement of net defined benefit assets, net of tax	14, 20	-	-	-	-	(1,147,721)	(1,147,721)	(32,747)	(1,180,468)
Gain on valuation of cash flow hedge derivatives	20	-	-	-	-	1,811	1,811	-	1,811
Total comprehensive income for the year		-	-	-	21,503,181	2,963,804	24,466,985	288,074	24,755,059
Dividends	19	-	-	-	(9,619,243)	-	(9,619,243)	(21,359)	(9,640,602)
Capital transactions under common control		-	-	-	-	(85)	(85)	7,356	7,271
Changes in consolidated entities		-	-	-	-	-	-	5,730	5,730
Others		-	-	-	-	(1,178)	(1,178)	964	(214)
Total transactions with owners		-	-	-	(9,619,243)	(1,263)	(9,620,506)	(7,309)	(9,627,815)
Balance as of December 31, 2019		119,467	778,047	4,403,893	254,582,894	(4,968,829)	254,915,472	7,964,949	262,880,421

The above consolidated statements of changes in equity should be read in conjunction with the accompanying notes.

Samsung Electronics Co., Ltd. and its subsidiaries

CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY

(In thousands of US dollars (Note 2.29))

2019 USD	Notes	Preference shares	Ordinary shares	Share premium	Retained earnings	Other components of equity	Equity attributable to owners of the parent company	Non-controlling interests	Total
Balance as of January 1, 2019		101,204	659,107	3,730,668	205,597,438	(6,718,897)	203,369,520	6,509,499	209,879,019
Profit for the year		-	-	-	18,217,565	-	18,217,565	198,068	18,415,633
Gain (loss) on valuation of financial assets at fair value through other comprehensive income, net of tax	6, 20	-	-	-	(1,072)	941,385	940,313	31,005	971,318
Share of other comprehensive income of associates and joint ventures, net of tax	9, 20	-	-	-	(515)	26,665	26,150	749	26,899
Gain on overseas business translation, net of tax	20	-	-	-	-	2,513,410	2,513,410	41,955	2,555,365
Remeasurement of net defined benefit assets, net of tax	14, 20	-	-	-	-	(972,268)	(972,268)	(27,741)	(1,000,009)
Gain on valuation of cash flow hedge derivatives	20	-	-	-	-	1,534	1,534	-	1,534
Total comprehensive income for the year		-	-	-	18,215,978	2,510,726	20,726,704	244,036	20,970,740
Dividends	19	-	-	-	(8,148,744)	-	(8,148,744)	(18,094)	(8,166,838)
Capital transactions under common control		-	-	-	-	(72)	(72)	6,231	6,159
Changes in consolidated entities		-	-	-	-	-	-	4,854	4,854
Others		-	-	-	-	(998)	(998)	817	(181)
Total transactions with owners		-	-	-	(8,148,744)	(1,070)	(8,149,814)	(6,192)	(8,156,006)
Balance as of December 31, 2019		101,204	659,107	3,730,668	215,664,672	(4,209,241)	215,946,410	6,747,343	222,693,753

The above consolidated statements of changes in equity should be read in conjunction with the accompanying notes.

Samsung Electronics Co., Ltd. and its subsidiaries

CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY

(In millions of Korean won)

2020 KRW	Notes	Preference shares	Ordinary shares	Share premium	Retained earnings	Other components of equity	Accumulated other comprehensive income attributable to assets held-for-sale	Equity attributable to owners of the parent company	Non-controlling interests	Total
Balance as of January 1, 2020		119,467	778,047	4,403,893	254,582,894	(4,968,829)	-	254,915,472	7,964,949	262,880,421
Profit for the year		-	-	-	26,090,846	-	-	26,090,846	316,986	26,407,832
Gain on valuation of financial assets at fair value through other comprehensive income, net of tax	6, 20	-	-	-	13,713	2,402,226	-	2,415,939	86,794	2,502,733
Share of other comprehensive income (loss) of associates and joint ventures, net of tax	9, 20	-	-	-	-	(45,894)	-	(45,894)	2,597	(43,297)
Loss on overseas business translation, net of tax	20	-	-	-	-	(5,343,946)	-	(5,343,946)	(36,429)	(5,380,375)
Remeasurement of net defined benefit assets, net of tax	14, 20	-	-	-	-	(709,141)	-	(709,141)	(10,419)	(719,560)
Loss on valuation of cash flow hedge derivatives	20	-	-	-	-	(33,406)	-	(33,406)	-	(33,406)
Reclassification to assets held-for-sale	32	-	-	-	-	12,132	(12,132)	-	-	-
Total comprehensive income for the year		-	-	-	26,104,559	(3,718,029)	(12,132)	22,374,398	359,529	22,733,927
Dividends	19	-	-	-	(9,619,242)	-	-	(9,619,242)	(59,028)	(9,678,270)
Capital transactions under common control		-	-	-	-	(830)	-	(830)	(701)	(1,531)
Changes in consolidated entities		-	-	-	-	-	-	-	17,838	17,838
Others		-	-	-	-	533	-	533	(4,902)	(4,369)
Total transactions with owners		-	-	-	(9,619,242)	(297)	-	(9,619,539)	(46,793)	(9,666,332)
Balance as of December 31, 2020		119,467	778,047	4,403,893	271,068,211	(8,687,155)	(12,132)	267,670,331	8,277,685	275,948,016

The above consolidated statements of changes in equity should be read in conjunction with the accompanying notes.

Samsung Electronics Co., Ltd. and its subsidiaries

CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY

(In thousands of US dollars (Note 2.29))

2020 USD	Notes	Preference shares	Ordinary shares	Share premium	Retained earnings	Other components of equity	Accumulated other comprehensive income attributable to assets held-for-sale	Equity attributable to owners of the parent company	Non-controlling interests	Total
Balance as of January 1, 2020		101,204	659,107	3,730,668	215,664,672	(4,209,241)	-	215,946,410	6,747,343	222,693,753
Profit for the year		-	-	-	22,102,325	-	-	22,102,325	268,528	22,370,853
Gain on valuation of financial assets at fair value through other comprehensive income, net of tax	6, 20	-	-	-	11,617	2,034,996	-	2,046,613	73,526	2,120,139
Share of other comprehensive income (loss) of associates and joint ventures, net of tax	9, 20	-	-	-	-	(38,878)	-	(38,878)	2,200	(36,678)
Loss on overseas business translation, net of tax	20	-	-	-	-	(4,527,014)	-	(4,527,014)	(30,860)	(4,557,874)
Remeasurement of net defined benefit assets, net of tax	14, 20	-	-	-	-	(600,734)	-	(600,734)	(8,826)	(609,560)
Loss on valuation of cash flow hedge derivatives	20	-	-	-	-	(28,300)	-	(28,300)	-	(28,300)
Reclassification to assets held-for-sale	32	-	-	-	-	10,277	(10,277)	-	-	-
Total comprehensive income for the year		-	-	-	22,113,942	(3,149,653)	(10,277)	18,954,012	304,568	19,258,580
Dividends	19	-	-	-	(8,148,744)	-	-	(8,148,744)	(50,004)	(8,198,748)
Capital transactions under common control		-	-	-	-	(703)	-	(703)	(594)	(1,297)
Changes in consolidated entities		-	-	-	-	-	-	-	15,111	15,111
Others		-	-	-	-	452	-	452	(4,153)	(3,701)
Total transactions with owners		-	-	-	(8,148,744)	(251)	-	(8,148,995)	(39,640)	(8,188,635)
Balance as of December 31, 2020		101,204	659,107	3,730,668	229,629,870	(7,359,145)	(10,277)	226,751,427	7,012,271	233,763,698

The above consolidated statements of changes in equity should be read in conjunction with the accompanying notes.

Samsung Electronics Co., Ltd. and its subsidiaries

CONSOLIDATED STATEMENTS OF CASH FLOWS

(In millions of Korean won, in thousands of US dollars (Note 2.29))

	Notes	For the years ended December 31,			
		2020	2019	2020	2019
		KRW	KRW	USD	USD
Operating activities					
Profit for the year		26,407,832	21,738,865	22,370,853	18,415,633
Adjustments	27	41,618,554	37,442,682	35,256,304	31,718,800
Changes in assets and liabilities arising from operating activities	27	122,424	(2,545,756)	103,708	(2,156,585)
Cash generated from operations		68,148,810	56,635,791	57,730,865	47,977,848
Interest received		2,220,209	2,306,401	1,880,804	1,953,820
Interest paid		(555,321)	(579,979)	(470,429)	(491,317)
Dividends received		243,666	241,801	206,417	204,837
Income tax paid		(4,770,355)	(13,221,099)	(4,041,108)	(11,199,983)
Net cash from operating activities		65,287,009	45,382,915	55,306,549	38,445,205
Investing activities					
Net increase in short-term financial instruments		(20,369,616)	(2,030,913)	(17,255,702)	(1,720,446)
Net decrease (increase) in short-term financial assets at amortized cost		184,104	(818,089)	155,960	(693,027)
Net decrease in short-term financial assets at fair value through profit or loss		1,704,512	374,982	1,443,942	317,658
Disposal of long-term financial instruments		12,184,301	4,586,610	10,321,680	3,885,453
Acquisition of long-term financial instruments		(8,019,263)	(12,725,465)	(6,793,354)	(10,780,116)
Disposal of financial assets at amortized cost		1,023,117	694,584	866,713	588,403
Acquisition of financial assets at amortized cost		-	(825,027)	-	(698,905)
Disposal of financial assets at fair value through other comprehensive income		32,128	1,575	27,217	1,334
Acquisition of financial assets at fair value through other comprehensive income		(245,497)	(63,773)	(207,968)	(54,024)
Disposal of financial assets at fair value through profit or loss		39,746	64,321	33,670	54,488
Acquisition of financial assets at fair value through profit or loss		(84,184)	(135,826)	(71,315)	(115,062)
Disposal of investment in associates and joint ventures		-	12,149	-	10,292
Acquisition of investment in associates and joint ventures		(83,280)	(12,778)	(70,549)	(10,825)
Disposal of property, plant and equipment		376,744	513,265	319,151	434,802
Acquisition of property, plant and equipment		(37,592,034)	(25,367,756)	(31,845,320)	(21,489,774)
Disposal of intangible assets		7,027	7,241	5,953	6,134
Acquisition of intangible assets		(2,679,779)	(3,249,914)	(2,270,120)	(2,753,098)
Cash outflow from business combinations		(49,420)	(1,019,405)	(41,865)	(863,568)
Cash inflow (outflow) from other investing activities		(57,197)	46,048	(48,453)	39,008
Net cash used in investing activities		(53,628,591)	(39,948,171)	(45,430,360)	(33,841,273)

The above consolidated statements of cash flows should be read in conjunction with the accompanying notes.

Samsung Electronics Co., Ltd. and its subsidiaries

CONSOLIDATED STATEMENTS OF CASH FLOWS

(In millions of Korean won, in thousands of US dollars (Note 2.29))

	Notes	For the years ended December 31,			
		2020	2019	2020	2019
		KRW	KRW	USD	USD
Financing activities					
Net increase in short-term borrowings	27	2,191,186	865,792	1,856,218	733,438
Increase in long-term borrowings	27	14,495	-	12,279	-
Repayment of debentures and long-term borrowings	27	(864,947)	(709,400)	(732,722)	(600,954)
Dividends paid		(9,676,760)	(9,639,202)	(8,197,469)	(8,165,652)
Net decrease (increase) in non-controlling interests		8,187	(1,700)	6,935	(1,440)
Net cash used in financing activities		(8,327,839)	(9,484,510)	(7,054,759)	(8,034,608)
Reclassification to assets held-for-sale	32	(139)	-	(118)	-
Effect of foreign exchange rate changes		(833,861)	595,260	(706,386)	504,262
Net increase (decrease) in cash and cash equivalents		2,496,579	(3,454,506)	2,114,926	(2,926,414)
Cash and cash equivalents					
Beginning of the year		26,885,999	30,340,505	22,775,922	25,702,336
End of the year		29,382,578	26,885,999	24,890,848	22,775,922

The above consolidated statements of cash flows should be read in conjunction with the accompanying notes.

Samsung Electronics Co., Ltd. and its subsidiaries

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

As of December 31, 2020 and 2019, and
For the years ended December 31, 2020 and 2019

1. General Information

1.1 Company Overview

Samsung Electronics Co., Ltd. (“SEC”) was incorporated under the laws of the Republic of Korea in 1969 and listed its shares on the Korea Stock Exchange in 1975. SEC and its subsidiaries (collectively referred to as the “Company”) operate four business divisions: Consumer Electronics (“CE”), Information technology & Mobile communications (“IM”), Device Solutions (“DS”) and Harman. CE division includes digital TVs, monitors, air conditioners and refrigerators and IM division includes mobile phones, communication systems, and computers. DS division includes semiconductor products such as memory, foundry, and system LSI (“Semiconductor”), and display products such as LCD and OLED panels (“DP”). Harman division includes connected car systems, audio and visual products, enterprise automation solutions and connected services. The Company is domiciled in the Republic of Korea and is located in Suwon, the Republic of Korea.

These consolidated financial statements have been prepared in accordance with Korean International Financial Reporting Standards (“*Korean IFRS*”) 1110, *Consolidated Financial Statements*. SEC, as the controlling Company, consolidates its 241 subsidiaries, including Samsung Display and Samsung Electronics America. The Company also applies the equity method of accounting for its 43 associates and joint ventures, including Samsung Electro-Mechanics Co., Ltd.

1.2 Consolidated Subsidiaries

The consolidated subsidiaries as of December 31, 2020 are as follows:

Area	Subsidiaries	Industry	Percentage of ownership (%) ¹
	Samsung Electronics America, Inc. (SEA)	Sale of electronic devices	100.0
	Samsung International, Inc. (SII)	Manufacture of electronic devices	100.0
	Samsung Mexicana S.A. de C.V (SAMEX)	Manufacture of electronic devices	100.0
	Samsung Electronics Home Appliances America, LLC (SEHA)	Manufacture of home appliances	100.0
	Samsung Research America, Inc. (SRA)	R&D	100.0
	Samsung Next LLC (SNX)	Management of overseas subsidiaries	100.0
	Samsung Next Fund LLC (SNXF)	Technology business, venture capital investments	100.0
	NeuroLogica Corp.	Manufacture and sale of medical equipment	100.0
	Samsung HVAC America, LLC	Sale of air conditioning products	100.0
	Prismview, LLC	Manufacture and sale of LED displays	100.0
America	Joyent, Inc.	Cloud services	100.0
	Viv Labs, Inc.	AI technology services	100.0
	Dacor Holdings, Inc.	Management of overseas subsidiaries	100.0
	Dacor, Inc.	Manufacture and sale of home appliances	100.0
	Dacor Canada Co.	Sale of home appliances	100.0
	SmartThings, Inc.	Sale of smart home electronics	100.0
	TeleWorld Solutions, Inc. (TWS)	Installation of network devices	100.0
	TWS LATAM B, LLC	Management of overseas subsidiaries	100.0
	TWS LATAM S, LLC	Management of overseas subsidiaries	100.0
	SNB Technologies, Inc. Mexico, S.A. de C.V.	Installation of network devices	100.0
	Zhilabs Inc.	Sale of network solutions	100.0

¹ Ownership represents the Company’s ownership of the voting rights in each entity, including subsidiaries’ ownerships.

Samsung Electronics Co., Ltd. and its subsidiaries

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

Area	Subsidiaries	Industry	Percentage of ownership (%) ¹
	Samsung Semiconductor, Inc. (SSI)	Sale of semiconductor and display panels	100.0
	Samsung Austin Semiconductor LLC. (SAS)	Manufacture of semiconductors	100.0
	Samsung Oak Holdings, Inc. (SHI)	Management of overseas subsidiaries	100.0
	Stellus Technologies, Inc.	Manufacture and sale of semiconductor system	100.0
	SEMES America, Inc.	Semiconductor equipment	100.0
	Samsung Electronics Canada, Inc. (SECA)	Sale of electronic devices	100.0
	AdGear Technologies Inc.	Digital advertising platforms	100.0
	SigMast Communications Inc.	Development of mobile communications software	100.0
	Samsung Eletronica da Amazonia Ltda. (SEDA)	Manufacture and sale of electronic devices	100.0
	Samsung Electronics Mexico S.A. De C.V. (SEM)	Sale of electronic devices	100.0
	Samsung Electronics Digital Appliance Mexico, S.A. de C.V. (SEDAM)	Manufacture of home appliances	100.0
	Samsung Electronics Latinoamerica (Zona Libre), S. A. (SELA)	Sale of electronic devices	100.0
	Samsung Electronics Latinoamerica Miami, Inc. (SEMI)	Sale of electronic devices	100.0
	Samsung Electronica Colombia S.A. (SAMCOL)	Sale of electronic devices	100.0
	Samsung Electronics Argentina S.A. (SEASA)	Marketing and services	100.0
	Samsung Electronics Chile Limitada (SECH)	Sale of electronic devices	100.0
America	Samsung Electronics Peru S.A.C. (SEPR)	Sale of electronic devices	100.0
	Samsung Electronics Venezuela, C.A. (SEVEN)	Marketing and services	100.0
	Samsung Electronics Panama. S.A. (SEPA)	Consulting	100.0
	Harman International Industries, Inc.	Management of overseas subsidiaries	100.0
	Harman Becker Automotive Systems, Inc.	Manufacture and sale of audio products, R&D	100.0
	Harman Connected Services, Inc.	Connected service provider	100.0
	Harman Connected Services Engineering Corp.	Connected service provider	100.0
	Harman da Amazonia Industria Eletronica e Participacoes Ltda.	Manufacture and sale of audio products	100.0
	Harman de Mexico, S. de R.L. de C.V.	Manufacture of audio products	100.0
	Harman do Brasil Industria Eletronica e Participacoes Ltda.	Sale of audio products, R&D	100.0
	Harman Financial Group LLC	Management company	100.0
	Harman International Industries Canada Ltd.	Sale of audio products	100.0
	Harman International Mexico, S. de R.L. de C.V.	Sale of audio products	100.0
	Harman KG Holding, LLC	Management of overseas subsidiaries	100.0
	Harman Professional, Inc.	Sale of audio products, R&D	100.0
	RT SV CO-INVEST, LP	Venture capital investments	99.9
	Beijing Integrated Circuit Industry International Fund, L.P	Venture capital investments	61.4
	China Materialia New Materials 2016 Limited Partnership	Venture capital investments	99.0

¹ Ownership represents the Company's ownership of the voting rights in each entity, including subsidiaries' ownerships.

Samsung Electronics Co., Ltd. and its subsidiaries

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

Area	Subsidiaries	Industry	Percentage of ownership (%) ¹
	Samsung Electronics (UK) Ltd. (SEUK)	Sale of electronic devices	100.0
	Samsung Electronics Ltd. (SEL)	Management of overseas subsidiaries	100.0
	Samsung Semiconductor Europe Limited (SSEL)	Sale of semiconductor and display panels	100.0
	Samsung Electronics GmbH (SEG)	Sale of electronic devices	100.0
	Samsung Electronics Holding GmbH (SEHG)	Management of overseas subsidiaries	100.0
	Samsung Semiconductor Europe GmbH (SSEG)	Sale of semiconductor and display panels	100.0
	Samsung Electronics France S.A.S. (SEF)	Sale of electronic devices	100.0
	Samsung Electronics Italia S.P.A. (SEI)	Sale of electronic devices	100.0
	Samsung Electronics Iberia, S.A. (SESA)	Sale of electronic devices	100.0
	Samsung Electronics Portuguesa S.A. (SEP)	Sale of electronic devices	100.0
	Samsung Electronics Hungarian Private Co., Ltd. (SEH)	Manufacture and sale of electronic devices	100.0
	Samsung Electronics Europe Logistics B.V. (SELS)	Logistics	100.0
	Samsung Electronics Benelux B.V. (SEBN)	Sale of electronic devices	100.0
	Samsung Electronics Europe Holding Cooperatief U.A. (SEEH)	Management of overseas subsidiaries	100.0
	Samsung Electronics Nordic Aktiebolag (SENA)	Sale of electronic devices	100.0
	Samsung Electronics Slovakia s.r.o. (SESK)	Manufacture of TV and monitors	100.0
	Samsung Display Slovakia s.r.o. (SDSK)	Toll processing of display panels	100.0
	Samsung Electronics Polska, SP.Zo.o (SEPOL)	Sale of electronic devices	100.0
	Samsung Electronics Poland Manufacturing SP.Zo.o (SEPM)	Manufacture of home appliances	100.0
Europe/CIS	Samsung Electronics Romania LLC (SEROM)	Sale of electronic devices	100.0
	Samsung Electronics Austria GmbH (SEAG)	Sale of electronic devices	100.0
	Samsung Electronics Switzerland GmbH (SESG)	Sale of electronic devices	100.0
	Samsung Electronics Czech and Slovak s.r.o. (SECZ)	Sale of electronic devices	100.0
	Samsung Electronics Baltics SIA (SEB)	Sale of electronic devices	100.0
	Samsung Electronics Greece S.M.S.A (SEGR)	Sale of electronic devices	100.0
	Samsung Electronics Air Conditioner Europe B.V. (SEACE)	Sale of air conditioning products	100.0
	Samsung Nanoradio Design Center (SNDC)	R&D	100.0
	Samsung Denmark Research Center ApS (SDRC)	R&D	100.0
	Samsung Cambridge Solution Centre Limited (SCSC)	R&D	100.0
	Zhilabs, S.L.	Development and sale of network solutions	100.0
	Foodient Ltd.	R&D	100.0
	Samsung Electronics Rus Company LLC (SERC)	Sale of electronic devices	100.0
	Samsung Electronics Rus Kaluga LLC (SERK)	Manufacture of TV	100.0
	Samsung Electronics Ukraine Company LLC (SEUC)	Sale of electronic devices	100.0
	Samsung Electronics Central Eurasia LLP (SECE)	Sale of electronic devices	100.0
	Samsung Electronics Overseas B.V. (SEO)	Sale of electronic devices	100.0
	Samsung R&D Institute Rus LLC (SRR)	R&D	100.0
	Samsung Electronics Caucasus Co., Ltd. (SECC)	Marketing	100.0

¹ Ownership represents the Company's ownership of the voting rights in each entity, including subsidiaries' ownerships.

Samsung Electronics Co., Ltd. and its subsidiaries

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

Area	Subsidiaries	Industry	Percentage of ownership (%) ¹
	AKG Acoustics GmbH	Manufacture and sale of audio products	100.0
	AMX UK Limited	Sale of audio products	100.0
	Arcam Limited	Management of overseas subsidiaries	100.0
	A&R Cambridge Limited	Sale of audio products	100.0
	Harman Audio Iberia Espana Sociedad Limitada	Sale of audio products	100.0
	Harman Automotive UK Limited	Manufacture of audio products	100.0
	Harman Becker Automotive Systems GmbH	Manufacture and sale of audio products, R&D	100.0
	Harman Becker Automotive Systems Italy S.R.L.	Sale of audio products	100.0
	Harman Becker Automotive Systems Manufacturing Kft	Manufacture of audio products, R&D	100.0
	Harman Belgium SA	Sale of audio products	100.0
	Harman Connected Services AB.	Connected service provider	100.0
	Harman Finland Oy	Connected service provider	100.0
	Harman Connected Services GmbH	Connected service provider	100.0
	Harman Connected Services Limited	Connected service provider	100.0
	Harman Connected Services Poland Sp.zoo	Connected service provider	100.0
	Harman Connected Services UK Ltd.	Connected service provider	100.0
	Harman Consumer Nederland B.V.	Sale of audio products	100.0
	Harman Deutschland GmbH	Sale of audio products	100.0
Europe/CIS	Harman Finance International GP S.a.r.l	Management of overseas subsidiaries	100.0
	Harman France SNC	Sale of audio products	100.0
	Harman Holding GmbH & Co. KG	Management company	100.0
	Harman Hungary Financing Ltd.	Financing company	100.0
	Harman Inc. & Co. KG	Management of overseas subsidiaries	100.0
	Harman International Estonia OU	R&D	100.0
	Harman International Industries Limited	Sale of audio products, R&D	100.0
	Harman International Romania SRL	R&D	100.0
	Harman Finance International, SCA	Financing company	100.0
	Harman International s.r.o	Manufacture of audio products	100.0
	Harman Management GmbH	Management of overseas subsidiaries	100.0
	Harman Professional Kft	Manufacture of audio products, R&D	100.0
	Martin Manufacturing (UK) Ltd.	Manufacture of audio products	100.0
	Harman Professional Denmark ApS	Sale of audio products, R&D	100.0
	Red Bend Software Ltd.	Software design	100.0
	Red Bend Software SAS	Software design	100.0
	Studer Professional Audio GmbH	Sale of audio products, R&D	100.0
	Harman Connected Services OOO	Connected service provider	100.0
	Harman RUS CIS LLC	Sale of audio products	100.0

¹ Ownership represents the Company's ownership of the voting rights in each entity, including subsidiaries' ownerships.

Samsung Electronics Co., Ltd. and its subsidiaries

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

Area	Subsidiaries	Industry	Percentage of ownership (%)¹
Middle East & Africa	Samsung Gulf Electronics Co., Ltd. (SGE)	Sale of electronic devices	100.0
	Samsung Electronics Turkey (SETK)	Sale of electronic devices	100.0
	Samsung Electronics Levant Co.,Ltd. (SELV)	Sale of electronic devices	100.0
	Samsung Electronics Maghreb Arab (SEMAG)	Sale of electronic devices	100.0
	Samsung Electronics Egypt S.A.E (SEEG)	Manufacture and sale of electronic devices	100.0
	Samsung Electronics Israel Ltd. (SEIL)	Marketing	100.0
	Samsung Electronics Tunisia S.A.R.L (SETN)	Marketing	100.0
	Samsung Electronics Pakistan (Private) Ltd. (SEPAK)	Marketing	100.0
	Samsung Electronics Saudi Arabia Ltd. (SESAR)	Sale of electronic devices	100.0
	Samsung Semiconductor Israel R&D Center, Ltd. (SIRC)	R&D	100.0
	Corephotonics Ltd.	R&D	100.0
	Samsung Electronics South Africa (Pty) Ltd. (SSA)	Sale of electronic devices	100.0
	Samsung Electronics South Africa Production (pty) Ltd. (SSAP)	Manufacture of TV and monitors	100.0
	Samsung Electronics West Africa Ltd. (SEWA)	Marketing	100.0
	Samsung Electronics East Africa Ltd. (SEEA)	Marketing	100.0
	Global Symphony Technology Group Private Ltd.	Management of overseas subsidiaries	100.0
	Harman Connected Services Morocco	Connected service provider	100.0
	Harman Industries Holdings Mauritius Ltd.	Management of overseas subsidiaries	100.0
	Red Bend Ltd.	Manufacture of audio products	100.0
	Asia (Excluding China)	Samsung Asia Pte. Ltd. (SAPL)	Sale of electronic devices
Samsung Electronics Singapore Pte. Ltd.(SESP)		Sale of electronic devices	100.0
Samsung Malaysia Electronics (SME) Sdn. Bhd. (SME)		Sale of electronic devices	100.0
Samsung Electronics Display (M) Sdn. Bhd. (SDMA)		Manufacture of electronic devices	100.0
Samsung Electronics (M) Sdn. Bhd. (SEMA)		Manufacture of home appliances	100.0
Samsung Vina Electronics Co., Ltd. (SAVINA)		Sale of electronic devices	100.0
Samsung Electronics Vietnam Co., Ltd. (SEV)		Manufacture of electronic devices	100.0
Samsung Electronics Vietnam THAINGUYEN Co., Ltd. (SEVT)		Manufacture of communication equipment	100.0
Samsung Electronics HCMC CE Complex Co., Ltd. (SEHC)		Manufacture and sale of electronic devices	100.0
Samsung Display Vietnam Co., Ltd. (SDV)		Manufacture of display panels	100.0
PT Samsung Electronics Indonesia (SEIN)		Manufacture and sale of electronic devices	100.0
PT Samsung Telecommunications Indonesia (STIN)		Sale of electronic devices and services	100.0
Thai Samsung Electronics Co., Ltd. (TSE)		Manufacture and sale of electronic devices	91.8
Laos Samsung Electronics Sole Co., Ltd. (LSE)		Marketing	100.0
Samsung Electronics Philippines Corporation (SEPCO)		Sale of electronic devices	100.0
Samsung Electronics Australia Pty. Ltd. (SEAU)		Sale of electronic devices	100.0
Samsung Electronics New Zealand Limited (SENZ)		Sale of electronic devices	100.0
Samsung India Electronics Private Ltd. (SIEL)		Manufacture and sale of electronic devices	100.0
Samsung Display Noida Private Limited (SDN)		Manufacture of display panels	100.0
Samsung R&D Institute India-Bangalore Private Limited (SRI-B)		R&D	100.0
Samsung R&D Institute BanglaDesh Limited (SRBD)		R&D	100.0
Samsung Nepal Services Pvt, Ltd. (SNSL)		Service	100.0
Samsung Japan Corporation (SJC)		Sale of semiconductor and display panels	100.0
Samsung R&D Institute Japan Co., Ltd. (SRJ)		R&D	100.0
Samsung Electronics Japan Co., Ltd. (SEJ)	Sale of electronic devices	100.0	

¹ Ownership represents the Company's ownership of the voting rights in each entity, including subsidiaries' ownerships.

Samsung Electronics Co., Ltd. and its subsidiaries

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

Area	Subsidiaries	Industry	Percentage of ownership (%)¹
Asia (Excluding China)	Harman Connected Services Corp. India Pvt. Ltd.	Connected service provider	100.0
	Harman International (India) Private Limited	Sale of audio products, R&D	100.0
	Harman International Industries PTY Ltd.	Management of overseas subsidiaries	100.0
	Harman International Japan Co., Ltd.	Sale of audio products, R&D	100.0
	Harman Singapore Pte. Ltd.	Sale of audio products	100.0
China	Samsung (CHINA) Investment Co., Ltd. (SCIC)	Sale of electronic devices	100.0
	Samsung Electronics Hong Kong Co., Ltd. (SEHK)	Sale of electronic devices	100.0
	Samsung Electronics Taiwan Co., Ltd. (SET)	Sale of electronic devices	100.0
	Samsung Electronics Huizhou Co., Ltd. (SEHZ)	Manufacture of electronic devices	100.0
	Tianjin Samsung Electronics Co., Ltd. (TSEC)	Manufacture of TV and monitors	91.2
	Suzhou Samsung Electronics Co., Ltd. (SSEC)	Manufacture of home appliances	88.3
	Samsung Suzhou Electronics Export Co., Ltd. (SSEC-E)	Manufacture of home appliances	100.0
	Samsung Electronics Suzhou Computer Co., Ltd. (SESC)	Manufacture of electronic devices, R&D	100.0
	Tianjin Samsung Telecom Technology Co., Ltd. (TSTC)	Manufacture of communication equipment	90.0
	Shenzhen Samsung Electronics Telecommunication Co., Ltd. (SSET)	Manufacture of communication equipment	100.0
	Beijing Samsung Telecom R&D Center (SRC-Beijing)	R&D	100.0
	Samsung Electronics China R&D Center (SRC-Nanjing)	R&D	100.0
	Samsung Mobile R&D Center China-Guangzhou (SRC-Guangzhou)	R&D	100.0
	Samsung R&D Institute China-Shenzhen (SRC-Shenzhen)	R&D	100.0
	Shanghai Samsung Semiconductor Co., Ltd. (SSS)	Sale of semiconductor and display panels	100.0
	Samsung (China) Semiconductor Co., Ltd. (SCS)	Manufacture of semiconductors	100.0
	Samsung SemiConductor Xian Co., Ltd. (SSCX)	Sale of semiconductor and display panels	100.0
	Samsung Electronics Suzhou Semiconductor Co., Ltd. (SESS)	Toll processing of semiconductors	100.0
	Tianjin Samsung LED Co., Ltd. (TSLED)	Manufacture of LED	100.0
	Samsung Semiconductor (China) R&D Co., Ltd. (SSCR)	R&D	100.0
	Samsung Display Dongguan Co., Ltd. (SDD)	Manufacture of display panels	100.0
	Samsung Display Tianjin Co., Ltd. (SDT)	Manufacture of display panels	95.0
	Samsung Suzhou Module Co., Ltd. (SSM)	Manufacture of display panels	100.0
	Samsung Suzhou LCD Co., Ltd. (SSL)	Manufacture of display panels	60.0
	SEMES (XIAN) Co., Ltd.	Semiconductor equipment services	100.0
	Harman (China) Technologies Co., Ltd.	Manufacture of audio products	100.0
	Harman (Suzhou) Audio and Infotainment Systems Co., Ltd.	Sale of audio products	100.0
	Harman Automotive Electronic Systems (Suzhou) Co., Ltd.	Manufacture of audio products, R&D	100.0
	Harman Commercial (Shanghai) Co., Ltd.	Sale of audio products	100.0
	Harman Connected Services Solutions (Chengdu) Co., Ltd.	Connected service provider	100.0
	Harman Holding Limited	Sale of audio products	100.0
	Harman International (China) Holdings Co., Ltd.	Sale of audio products, R&D	100.0
Harman Technology (Shenzhen) Co., Ltd.	Sale of audio products, R&D	100.0	

¹ Ownership represents the Company's ownership of the voting rights in each entity, including subsidiaries' ownerships.

Samsung Electronics Co., Ltd. and its subsidiaries

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

Area	Subsidiaries	Industry	Percentage of ownership (%) ¹	
	Samsung Display Co., Ltd.	Manufacture and sale of display panels	84.8	
	SU Materials	Manufacture of display components	50.0	
	STECO Co., Ltd.	Manufacture of semiconductor components	70.0	
	SEMES Co., Ltd.	Manufacture and sale of semiconductor/FPD	91.5	
	Samsung Electronics Service Co., Ltd.	Repair services for electronic devices	99.3	
	Samsung Electronics Service Customer Satisfaction	Call center for repair services for electronic devices	100.0	
	Samsung Electronics Sales Co., Ltd.	Sale of electronic devices	100.0	
	Samsung Electronics Logitech Co., Ltd.	General logistics agency	100.0	
	Samsung Medison Co., Ltd.	Manufacture and sale of medical equipment	68.5	
	Mirero System Co., Ltd.	Development and supply of semiconductor process defect and quality control software	99.9	
	Dowooinsys Co., Ltd.	Manufacture of display components	52.5	
	Gf-System Co., Ltd.	Manufacture of display components	100.0	
	Harman International Korea	Software development and supply, etc.	100.0	
Domestic	Samsung Venture Capital Union #21	Technology business, Venture capital investments	99.0	
	Samsung Venture Capital Union #22	Technology business, Venture capital investments	99.0	
	Samsung Venture Capital Union #26	Technology business, Venture capital investments	99.0	
	Samsung Venture Capital Union #27	Technology business, Venture capital investments	99.0	
	Samsung Venture Capital Union #28	Technology business, Venture capital investments	99.0	
	Samsung Venture Capital Union #29	Technology business, Venture capital investments	99.0	
	Samsung Venture Capital Union #32	Technology business, Venture capital investments	99.0	
	Samsung Venture Capital Union #33	Technology business, Venture capital investments	99.0	
	Samsung Venture Capital Union #37	Technology business, Venture capital investments	99.0	
	Samsung Venture Capital Union #40	Technology business, Venture capital investments	99.0	
	Samsung Venture Capital Union #42	Technology business, Venture capital investments	99.0	
	Samsung Venture Capital Union #43	Technology business, Venture capital investments	99.0	
	Samsung Venture Capital Union #45	Technology business, Venture capital investments	99.0	
	Samsung Venture Capital Union #48	Technology business, Venture capital investments	99.0	
		Growth type private equity trust specialized in semiconductors	Investment on semiconductor industry	66.7
		System LSI Mutual benefit private equity trust	Investment on semiconductor industry	62.5

¹ Ownership represents the Company's ownership of the voting rights in each entity, including subsidiaries' ownerships.

Samsung Electronics Co., Ltd. and its subsidiaries

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

1.3 Summary of Financial Data of Major Consolidated Subsidiaries

Summary of financial data of major consolidated subsidiaries is as follows:

(1) 2020

(In millions of Korean won)

Major subsidiaries¹	As of December 31, 2020		For the year ended December 31, 2020	
	Assets	Liabilities	Sales	Profit (loss) for the year
Samsung Display	50,039,755	7,612,332	27,149,102	1,798,100
Samsung Electronics America, Inc. (SEA)	36,765,070	15,828,083	35,237,365	1,623,555
Samsung Electronics Vietnam THAINGUYEN Co., Ltd. (SEVT)	15,500,024	2,574,442	28,284,397	2,066,842
Samsung (CHINA) Investment Co., Ltd. (SCIC)	15,438,819	12,358,881	2,475,454	127,051
Harman and its subsidiaries ²	14,702,005	5,776,884	9,161,142	(735,426)
Samsung (China) Semiconductor Co., Ltd. (SCS)	14,348,735	3,511,003	5,321,312	1,100,619
Samsung Electronics Vietnam Co., Ltd. (SEV)	12,623,956	1,805,326	19,952,957	1,408,088
Samsung Electronics Europe Holding Cooperatief U.A. (SEEH)	11,495,430	7,641,709	-	16,150
Samsung Semiconductor, Inc. (SSI)	9,669,349	4,427,701	23,562,962	182,290
Samsung Asia Pte. Ltd. (SAPL)	9,552,755	523,402	1,634,692	968,504
Shanghai Samsung Semiconductor Co., Ltd. (SSS)	7,678,989	5,010,041	25,829,119	271,691
Samsung Display Vietnam Co., Ltd. (SDV)	7,400,563	4,354,887	19,209,100	559,006
Samsung Austin Semiconductor LLC. (SAS)	6,912,610	538,288	3,913,100	922,007
Samsung Eletronica da Amazonia Ltda. (SEDA)	6,280,131	1,556,057	6,390,696	819,561
Samsung India Electronics Private Ltd. (SIEL)	6,250,492	2,523,027	10,943,343	611,571
Thai Samsung Electronics Co., Ltd. (TSE)	2,920,299	451,055	3,744,080	160,264
Samsung Electronics (UK) Ltd. (SEUK)	2,767,563	1,886,447	4,987,522	133,016
Samsung Electronics GmbH (SEG)	2,687,535	2,626,979	6,306,675	605
Samsung Electronics HCMC CE Complex Co., Ltd. (SEHC)	2,609,150	1,026,901	6,273,162	419,313
Samsung Electronics Hungarian Private Co. Ltd. (SEH)	2,230,457	504,952	3,665,360	148,056
Samsung Electronics Benelux B.V. (SEBN)	2,145,488	736,480	2,324,308	58,579
Samsung Display Dongguan Co., Ltd. (SDD)	1,767,663	300,080	2,947,506	110,194
Samsung Electronics Europe Logistics B.V. (SELS)	1,700,033	1,550,350	13,444,960	20,623
Samsung Electronics France S.A.S (SEF)	1,688,580	1,207,359	3,464,937	61,596
Samsung Japan Corporation (SJC)	1,668,902	1,381,443	3,317,644	7,684

¹ Summary of condensed financial information is based on separate financial statements of each subsidiary.

² Consolidated financial data of an intermediate company that includes Harman International Industries, Inc. and its subsidiaries.

Samsung Electronics Co., Ltd. and its subsidiaries

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

(2) 2019

<i>(In millions of Korean won)</i>	As of December 31, 2019		For the year ended December 31, 2019	
Major subsidiaries¹	Assets	Liabilities	Sales	Profit (loss) for the year
Samsung Display	46,543,974	6,421,516	27,088,475	407,791
Samsung Electronics America, Inc. (SEA)	34,704,039	13,992,397	33,859,423	1,127,719
Harman and its subsidiaries ²	15,609,084	5,791,272	10,075,626	104,459
Samsung (CHINA) Investment Co., Ltd. (SCIC)	14,637,222	11,701,871	3,098,948	581,115
Samsung Electronics Vietnam THAINGUYEN Co., Ltd. (SEVT)	13,847,934	2,075,180	32,831,993	2,305,089
Samsung (China) Semiconductor Co., Ltd. (SCS)	12,370,070	2,678,742	5,445,396	537,037
Samsung Electronics Vietnam Co., Ltd. (SEV)	12,367,857	1,418,876	22,350,791	1,757,684
Samsung Electronics Europe Holding Cooperatief U.A. (SEEH)	10,682,847	7,662,042	-	21,915
Samsung Semiconductor, Inc. (SSI)	9,194,190	3,795,273	16,473,214	211,312
Samsung Asia Pte. Ltd. (SAPL)	9,137,262	579,618	1,572,146	1,265,359
Samsung Display Vietnam Co., Ltd. (SDV)	7,267,124	4,587,477	16,613,123	601,469
Samsung Eletronica da Amazonia Ltda. (SEDA)	7,058,719	1,594,907	7,252,673	887,298
Samsung India Electronics Private Ltd. (SIEL)	7,042,872	3,588,241	12,902,906	448,678
Samsung Austin Semiconductor LLC. (SAS)	6,437,865	556,765	3,897,162	571,391
Shanghai Samsung Semiconductor Co., Ltd. (SSS)	5,880,616	4,446,885	26,067,175	265,801
Thai Samsung Electronics Co., Ltd. (TSE)	2,912,731	450,833	3,921,248	144,087
Samsung Electronics (UK) Ltd. (SEUK)	2,644,358	1,877,903	4,730,414	104,741
Samsung Electronics HCMC CE Complex Co., Ltd. (SEHC)	2,305,587	1,035,533	4,934,278	373,325
Samsung Electronics GmbH (SEG)	2,258,269	2,199,561	5,597,323	4,729
Samsung Electronics Hungarian Private Co. Ltd. (SEH)	2,109,654	416,160	2,915,812	106,704
Samsung SemiConductor Xian Co., Ltd. (SSCX)	2,091,092	1,954,875	4,283,163	53,160
Samsung Electronics Europe Logistics B.V. (SELS)	2,027,213	1,891,221	12,540,817	6,531
Samsung Electronics Benelux B.V. (SEBN)	1,914,864	673,887	2,246,357	39,175
Samsung Suzhou LCD Co., Ltd. (SSL)	1,808,262	625,541	1,415,505	(4,414)
Samsung Display Dongguan Co., Ltd. (SDD)	1,795,077	444,552	3,995,696	158,122

¹ Summary of condensed financial information is based on separate financial statements of each subsidiary.

² Consolidated financial data of an intermediate company that includes Harman International Industries, Inc. and its subsidiaries.

Samsung Electronics Co., Ltd. and its subsidiaries

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

1.4 Changes in Consolidation Scope

Changes in consolidation scope during the year ended December 31, 2020 are as follows:

Change	Area	Subsidiary	Description
Included	America	TeleWorld Solutions. Inc. (TWS)	Acquisition
		TWS LATAM B, LLC	
		TWS LATAM S, LLC	
		SNB Technologies, Inc. Mexico, S.A. de C.V	
Excluded	Asia (Excluding China)	Samsung Electronics Singapore Pte. Ltd.(SESP)	Liquidation
	Domestic	System LSI mutual benefit private equity trust	
	America	Harman Connected Services South America S.R.L.	
		EverythingDacor.com, Inc.	
Excluded	Asia (Excluding China)	Distinctive Appliances of California, Inc.	Establishment
		Martin Professional Pte. Ltd.	
	China	Samsung Tianjin Mobile Development Center (SRC-Tianjin)	

2. Significant Accounting Policies

2.1 Basis of Presentation

The principal accounting policies used to prepare the consolidated financial statements are set out below. Except for the effect of the amendments to the Korean IFRS and new interpretations set out below, the principal accounting policies used to prepare the consolidated financial statements as of and for the year ended December 31, 2020 are consistent with those used to prepare the consolidated financial statements as of and for the year ended December 31, 2019.

The Company maintains its accounting records in Korean won and prepares statutory financial statements in the Korean language (Hangul) in accordance with International Financial Reporting Standards as adopted by the Republic of Korea ("Korean IFRS"). The accompanying consolidated financial statements have been condensed, restructured, and translated into English from the Korean language financial statements.

Certain information attached to the Korean language financial statements, but not required for a fair presentation of the Company's financial position, financial performance or cash flows, is not presented in the accompanying consolidated financial statements.

The consolidated financial statements of the Company presented have been prepared in accordance with Korean IFRS. These are the standards, subsequent amendments and related interpretations issued by the International Accounting Standards Board (IASB) that have been adopted by the Republic of Korea.

Korean IFRS permits the use of critical accounting estimates in the preparation of the consolidated financial statements and requires management judgments in applying accounting policies. The areas involving a higher degree of judgment or complexity, or areas where assumptions and estimates are significant to the consolidated financial statements, are disclosed in Note 3.

Samsung Electronics Co., Ltd. and its subsidiaries

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

2.2 Changes in Accounting Policies and Disclosures

(A) New and amended standards adopted by the Company

The Company applied the following amended and enacted standards for the first time for their annual reporting period commencing January 1, 2020:

Amendments to Korean IFRS 1103, Business Combination

To consider the integration of the required activities and assets as a business, the amended definition of a business requires an acquisition to include an input and a substantive process that together significantly contribute to the ability to create outputs and excludes economic benefits from the lower costs. An entity can apply an optional concentration test, where substantially all of the fair value of gross assets acquired is concentrated in a single asset (or group of similar assets), the assets acquired would not represent a business. This amendment does not have a significant impact on the consolidated financial statements.

(B) New and amended standards not yet adopted by the Company

The amended accounting standard issued that is not mandatory for the annual reporting period commencing January 1, 2020 and has not been early adopted by the Company is as follows:

Amendments to Korean IFRS 1116, Lease

The amendments introduce a practical expedient that simplifies how a lessee accounts for COVID-19 related rent concessions, and a lessee may elect not to assess whether rent concessions occurring as a direct consequence of the COVID-19 pandemic are lease modifications. A lease that makes this election shall account for any change in lease payments resulting from the rent concession the same way it would account for the change applying this standard if the change were not a lease modification. The amendment is effective for annual reporting periods beginning on or after June 1, 2020, with early adoption permitted.

Amendments to Korean IFRS 1016 Property, Plant and Equipment

The amendments prohibit deducting from the cost of an item of property, plant and equipment any proceeds from selling items produced while bringing that asset to the location and condition necessary for it to be capable of operating in the manner intended by management. Instead, an entity recognizes the proceeds from selling such items, and the cost of producing those items, in profit or loss. The amendments are effective for annual reporting periods beginning on or after January 1, 2022, with early adoption permitted.

Samsung Electronics Co., Ltd. and its subsidiaries

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

2.3 Consolidation

The Company prepares the consolidated financial statements in accordance with Korean IFRS 1110 *Consolidated Financial Statements*.

(A) Subsidiaries

Subsidiaries are all entities (including special purpose entities) over which the Company has control. The Company controls the corresponding investee when it is exposed, or has rights, to variable returns from its involvement with the investee and has the ability to affect those returns through its power over the investee. Consolidation of a subsidiary begins from the date the Company obtains control of a subsidiary and ceases when the Company loses control of the subsidiary.

The Company applies the acquisition method to account for business combinations. The consideration transferred is measured at the fair values of the assets transferred, and identifiable assets acquired and liabilities and contingent liabilities assumed in a business combination are initially measured at their fair values at the acquisition date. The Company recognizes any non-controlling interest in the acquiree on an acquisition-by-acquisition basis in the event of liquidation at the non-controlling interest's proportionate share of the recognized amounts of acquiree's identifiable net assets. Acquisition-related costs are expensed as incurred.

The excess of consideration transferred, amount of any non-controlling interest in the acquired entity and acquisition-date fair value of any previous equity interest in the acquired entity over the fair value of the net identifiable assets acquired is recorded as goodwill. If those amounts are less than the fair value of the net identifiable assets of the business acquired, the difference is recognized directly in the profit or loss as a bargain purchase.

Balances of receivables and payables, income and expenses and unrealized gains or losses on transactions between the entities within the Company are eliminated. Accounting policies of subsidiaries are changed where necessary to ensure consistency with the policies adopted by the Company.

(B) Changes in ownership interests in subsidiaries without change of control

Transactions with non-controlling interests that do not result in loss of control are accounted for as equity transactions – that is, as transactions with the owners in their capacity as owners. The difference between fair value of any consideration paid and the relevant share acquired of the carrying value of net assets of the subsidiary is recorded in equity. Gains or losses on disposals of non-controlling interests are also recorded in equity.

(C) Disposal of subsidiaries

If the Company loses control of a subsidiary, any investment continuously retained in the subsidiary is re-measured at its fair value at the date when control is lost and any resulting differences are recognized in profit or loss. Such fair value becomes the initial carrying amount for the subsequent measurement of the retained interest accounted for as an associate, joint venture, or financial asset. In addition, any amounts previously recognized in other comprehensive income in respect of such entity are accounted for as if the Company had directly disposed of the related assets or liabilities. As a result, the previously recognized other comprehensive income are reclassified into profit or loss or equity.

(D) Non-controlling interests

Each component of profit or loss and other comprehensive income is attributed to owners of the parent and to non-controlling interests. Total comprehensive income is attributed to owners of the parent and to non-controlling interests even if this results in a negative balance of non-controlling interests.

Samsung Electronics Co., Ltd. and its subsidiaries

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

(E) Associates

Associates are all entities over which the Company has significant influence but does not have control, generally investees of which from 20% to 50% voting shares are owned by the Company. Investments in associates are accounted for using the equity method of accounting, after initially being recognized at cost. Unrealized gains on transactions between the Company and its associates are eliminated to the extent of the Company's interest in the associates. If the Company's share of losses of an associate equals or exceeds its interest in the associate (including long-term interests that, in substance, form part of the Company's net investment in the associate), the Company discontinues recognizing its share of further losses. After the Company's interest is reduced to zero, additional losses are provided for, and a liability is recognized, only to the extent that the Company has incurred legal or constructive obligations or made payments on behalf of the associate. If there is objective evidence of impairment for the investment in the associate, the Company recognizes the difference between the recoverable amount of the associate and its carrying amount as an impairment loss. If an associate uses accounting policies other than those of the Company for like transactions and events in similar circumstances, if necessary, adjustments shall be made to make the associate's accounting policies conform to those of the Company when the associate's financial statements are used by the entity in applying the equity method.

(F) Joint arrangements

A joint arrangement of which two or more parties have joint control is classified as either a joint operation or a joint venture. A joint operator has rights to the assets, and obligations for the liabilities, relating to the joint operation and recognizes the assets, liabilities, revenues and expenses relating to its interest in a joint operation. A joint venturer has rights to the net assets relating to the joint venture and accounts for that investment using the equity method.

2.4 Foreign Currency Translation

(A) Functional and presentation currency

Items included in the consolidated financial statements of each of the Company's entities are measured using the currency of the primary economic environment in which each entity operates (the "functional currency"). The consolidated financial statements are presented in Korean won, which is the parent company's functional and presentation currency.

(B) Transactions and balances

Foreign currency transactions are translated into the functional currency using the exchange rates prevailing at the dates of the transactions or valuation where items are re-measured. Foreign exchange gains and losses resulting from the settlement of such transactions and from the translation at year-end exchange rates of monetary assets and liabilities denominated in foreign currencies are recognized in profit or loss. Exchange differences arising on non-monetary financial assets and liabilities such as equity instruments at fair value through profit or loss and equity instruments at fair value through other comprehensive income are recognized in profit or loss and other comprehensive income, respectively, as part of the fair value gain or loss.

(C) Translation into the presentation currency

The results and financial position of all the foreign entities that have a functional currency different from the presentation currency of the Company are translated into the presentation currency as follows:

- Assets and liabilities for each consolidated statement of financial position presented are translated at the closing rate at the end of the reporting date.
- Income and expenses for each consolidated statement of profit or loss are translated at average exchange rates, unless this average is not a reasonable approximation of the cumulative effect of the rates prevailing on the transaction dates, in which case income and expenses are translated at the rate on the dates of the transactions.
- All resulting exchange differences are recognized in other comprehensive income.

Samsung Electronics Co., Ltd. and its subsidiaries

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

2.5 Cash and Cash Equivalents

Cash and cash equivalents include cash on hand, deposits held at call with banks, and other short-term investment assets with high liquidity that are readily convertible to a known amount of cash and are subject to an insignificant risk of change in value.

2.6 Financial Assets

(A) Classification

From January 1, 2018, the initial application date for Korean IFRS 1109 *Financial Instruments*, the Company classifies its financial assets in the following measurement categories:

- Financial assets measured at fair value (changes in fair value recognized in either other comprehensive income, or profit or loss)
- Financial assets measured at amortized cost.

The classification depends on the Company's business model for managing the financial assets and the contractual terms of the cash flows.

For financial assets measured at fair value, gains and losses will either be recorded in profit or loss or other comprehensive income. For investments in debt instruments, this will depend on the business model in which the investment is held. The Company reclassifies debt investments only when its business model for managing those assets changes.

For investments in equity instruments that are not held for trading, classification will depend on whether the Company has made an irrevocable election at the time of initial recognition to account for the equity investment at fair value through other comprehensive income. Changes in fair value of the investments in equity instruments that are not elected to be accounted for as other comprehensive income are recognized in profit or loss.

(B) Measurement

At initial recognition, the Company measures a financial asset at its fair value. In the case of financial asset not measured at fair value through profit or loss, transaction costs that are directly attributable to the acquisition of the financial asset or the issuance of the financial liabilities are added to its fair value. Transaction costs of financial assets carried at fair value through profit or loss are expensed in profit or loss.

Hybrid (combined) contracts with embedded derivatives are considered in their entirety when determining whether their cash flows are solely payment of principal and interest.

a) Debt instruments

Subsequent measurement of debt instruments depends on the Company's business model for managing the asset and the cash flow characteristics of the asset. The Company classifies its debt instruments into one of the following three measurement categories:

① Financial assets measured at amortized cost

Assets that are held for collection of contractual cash flows where those cash flows represent solely payments of principal and interest are measured at amortized cost. A gain or loss on a debt investment that is subsequently measured at amortized cost and is not part of a hedging relationship is recognized in profit or loss when the asset is derecognized or impaired. Interest income from these financial assets is included in 'financial income' using the effective interest rate method.

Samsung Electronics Co., Ltd. and its subsidiaries

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

② Financial assets measured at fair value through other comprehensive income

Assets that are held for collection of contractual cash flows and for selling the financial assets, where the assets' cash flows represent solely payments of principal and interest, are measured at fair value through other comprehensive income. Movements in the carrying amount are taken through other comprehensive income, except for the recognition of impairment loss (reversal of impairment loss), interest income and foreign exchange gains and losses which are recognized in profit or loss. When the financial assets are derecognized, the cumulative gain or loss previously recognized in other comprehensive income is reclassified from equity to profit or loss. Interest income from these financial assets is included in 'financial income' using the effective interest rate method. Foreign exchange gains and losses are presented in 'financial income' or 'financial expenses' and impairment losses are presented in 'other non-operating expenses'.

③ Financial assets measured at fair value through profit or loss

Assets that do not meet the criteria for amortized cost or fair value through other comprehensive income are measured at fair value through profit or loss. A gain or loss on a debt investment that is subsequently measured at fair value through profit or loss and is not part of a hedging relationship is recognized in profit or loss and presented in the consolidated statement of profit or loss within 'other non-operating income' or 'other non-operating expenses' in the year in which it arises.

b) Equity instruments

The Company subsequently measures all equity investments at fair value. Where the Company's management has elected to present fair value gains and losses on equity investments in other comprehensive income, there is no subsequent reclassification of fair value gains and losses to profit or loss following the derecognition of the investment. When the financial asset is derecognized, the cumulative gain or loss on valuation of financial assets at fair value through other comprehensive income recognized in equity is reclassified to retained earnings. Dividend income from such investments continue to be recognized in profit or loss as 'other non-operating income' when the right to receive payments is established.

Changes in the fair value of financial assets at fair value through profit or loss are recognized in 'other non-operating income' or 'other non-operating expenses' in the consolidated statements of profit or loss as applicable.

(C) Impairment

The Company assesses on a forward-looking basis the expected credit losses associated with its debt instruments carried at amortized cost and fair value through other comprehensive income. The impairment methodology applied depends on whether there has been a significant increase in credit risk. For trade receivables, the Company applies the simplified approach, which requires expected lifetime losses to be recognized from initial recognition of the receivables.

(D) Recognition and derecognition

Regular way purchases and sales of financial assets are recognized or derecognized on a trade date basis. Financial assets are derecognized when the rights to receive cash flows from the financial assets have expired or have been transferred and the Company has transferred substantially all the risks and rewards of ownership. If a transfer does not result in derecognition because the Company has retained substantially all the risks and rewards of ownership of the transferred asset, the Company continues to recognize the transferred asset in its entirety and recognizes a financial liability for the consideration received. The Company classified the financial liability as 'borrowings' in the consolidated statement of financial position.

Samsung Electronics Co., Ltd. and its subsidiaries

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

(E) Offsetting of financial instruments

Financial assets and liabilities are offset and the net amount reported in the statements of financial position where there is a legally enforceable right to offset the recognized amounts and there is an intention to settle on a net basis or realize the assets and settle the liability simultaneously. The legally enforceable right must not be contingent on future events and must be enforceable in the normal course of business and in the event of default, insolvency or bankruptcy of the Company or the counterparty.

2.7 Trade Receivables

Trade receivables are amounts due from customers for inventories sold or services performed in the ordinary course of business. If collection is expected in one year or less, they are classified as current assets. If collection is expected beyond one year, they are presented as non-current assets. Trade receivables are recognized initially at fair value and subsequently measured at amortized cost using the effective interest method, less loss allowance, unless trade receivables bear significant financial component.

2.8 Inventories

Inventories are stated at the lower of cost and net realizable value. Cost is determined using the average cost method, except for materials in transit. The cost of finished goods and work in progress comprises raw materials, direct labor, other direct costs and related production overheads (based on normal operating capacity). It excludes costs of idle plant and abnormal waste. Net realizable value is the estimated selling price in the ordinary course of business, less applicable variable selling expenses.

The Company regularly estimates the future customer demand in the products that may cause a significant change in the valuation allowance and recognizes the valuation allowance if there is any case such as excess, obsolescence and decline in market value. Loss on valuation of inventories is recorded as cost of sales.

2.9 Property, Plant and Equipment

Property, plant and equipment are stated at cost less accumulated depreciation and accumulated impairment losses. Historical cost includes expenditures that are directly attributable to the acquisition of the items. Subsequent costs are included in the asset's carrying amount or recognized as a separate asset, as appropriate, only when it is probable that future economic benefits associated with the item will flow to the Company and the cost of the item can be measured reliably. The carrying amount of those parts that are replaced is derecognized and repairs and maintenance expenses are recognized in profit or loss in the period they are incurred.

Depreciation on tangible assets is calculated using the straight-line method to allocate the difference between their cost and their residual values over their estimated useful lives. Land is not depreciated. Costs that are directly attributable to the acquisition, construction or production of a qualifying asset, including capitalized interest costs, form part of the cost of that asset and are amortized over the estimated useful lives.

The Company's policy is that property, plant and equipment should be depreciated over the following estimated useful lives:

	<u>Estimated useful lives</u>
Buildings and structures	15, 30 years
Machinery and equipment	5 years
Other	5 years

The depreciation method, residual values and useful lives of property, plant and equipment are reviewed, and adjusted if appropriate, at the end of each reporting period. An asset's carrying amount is written down immediately to its recoverable

Samsung Electronics Co., Ltd. and its subsidiaries

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

amount if the asset's carrying amount is greater than its estimated recoverable amount. Gains and losses on disposals are determined by comparing the proceeds with the carrying amount and are recognized within the consolidated statement of profit or loss as 'other non-operating income' or 'other non-operating expenses'.

2.10 Borrowing Costs

General and specific borrowing costs that are directly attributable to the acquisition, construction or production of a qualifying asset are capitalized during the period of time that is required to complete and prepare the asset for its intended use. Investment income earned on the temporary investment of specific borrowings pending their expenditure on qualifying assets is deducted from the borrowing costs eligible for capitalization. Other borrowing costs are expensed in the period in which they are incurred.

2.11 Intangible Assets

Goodwill represents the excess of the cost of an acquisition over the fair value of the Company's share of the net identifiable assets of the acquired subsidiaries, associates, joint ventures and businesses at the date of acquisition. Goodwill on an acquisition of subsidiaries' businesses is included in intangible assets and goodwill on an acquisition of associates and joint ventures' shares is included in the investments in associates and joint ventures.

Intangible assets, except for goodwill, are initially recognized at their historical cost and carried at cost less accumulated amortization and accumulated impairment losses.

Internally generated development costs are the aggregate costs recognized after meeting the asset recognition criteria, including technical feasibility, and determined to have future economic benefits. Membership rights and certain trademarks are regarded as intangible assets with an indefinite useful life and not amortized because there is no foreseeable limit to the period over which the assets are expected to be utilized. However, the Company records impairment based on its reasonable estimation of the benefits associated with the membership rights and assessment of impairment indicators, such as a decline in the market value. Intangible assets with definite useful lives such as trademarks, licenses, and other intangible assets, are amortized using the straight-line method over their estimated useful lives.

The Company's policy is that intangible assets should be amortized over the following estimated useful lives:

	<u>Estimated useful lives</u>
Development costs	2 years
Trademarks, licenses and other intangible assets	3 - 25 years

2.12 Impairment of Non-Financial Assets

Goodwill or intangible assets with indefinite useful lives are not subject to amortization and are tested annually for impairment. Assets that are subject to amortization are reviewed for impairment whenever events or changes in circumstances indicate that the carrying amount may not be recoverable. An impairment loss is recognized for the amount by which the asset's carrying amount exceeds its recoverable amount. The recoverable amount is the higher of an asset's fair value less costs to sell and value in use. For the purposes of assessing impairment, assets are grouped at the lowest levels for which there are separately identifiable cash flows (cash-generating units). Non-financial assets other than goodwill that suffered an impairment are reviewed for possible reversal of the impairment at the end of each reporting period.

Samsung Electronics Co., Ltd. and its subsidiaries

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

2.13 Assets Held-for-Sale (Disposal Group)

Non-current assets (or disposal groups) are classified as assets held-for-sale when their carrying amount is to be recovered principally through a sale transaction and the sale is considered highly probable. The assets are measured at the lower of their carrying amount and the fair value less costs to sell. Gain or loss on disposal is determined by comparing the proceeds with the carrying amount of relevant assets, and is recognized in the statements of profit or loss as 'other non-operating income' or 'other non-operating expenses'.

2.14 Financial Liabilities

(A) Classification and measurement

The Company shall classify all financial liabilities as financial liabilities measured subsequently at amortized cost, except for the following:

- Financial liabilities at fair value through profit or loss. Such liabilities, including derivatives that are liabilities, shall be subsequently measured at fair value.
- Financial liabilities that arise when a transfer of a financial asset does not qualify for derecognition or when the continuing involvement approach applies. Such financial liabilities are measured based on the methodology described in Note 2.6 Financial Assets.
- Financial guarantee contracts. After initial recognition, an issuer of such a contract shall subsequently measure it at the higher of:
 - (a) The amount of the loss allowance determined based on expected credit losses.
 - (b) The amount initially recognized less, when appropriate, the cumulative amount of income recognized in accordance with the principles of Korean IFRS 1115 *Revenue from Contracts with Customers*.
- Commitments to provide a loan at a below-market interest rate. An issuer of such a commitment shall subsequently measure it at the higher of:
 - (a) The amount of the loss allowance determined based on expected credit losses.
 - (b) The amount initially recognized less, when appropriate, the cumulative amount of income recognized in accordance with the principles of Korean IFRS 1115 *Revenue from Contracts with Customers*.
- Contingent consideration recognized by an acquirer in a business combination to which Korean IFRS 1103 *Business Combinations* applies. Such contingent consideration shall subsequently be measured at fair value with changes recognized in profit or loss.

(B) Derecognition

Financial liabilities are removed from the consolidated statements of financial position when it is extinguished; for example, when the obligation specified in the contract is discharged or cancelled or expired or when the terms of an existing financial liability are substantially modified. The difference between the carrying amount of a financial liability extinguished or transferred to another party and the consideration paid (including any non-cash assets transferred or liabilities assumed) is recognized in profit or loss.

2.15 Trade Payables

Trade payables are amounts due to suppliers for inventories purchased or services received in the ordinary course of business. If payment is expected to be made within 12 months, they are classified as current liabilities. If not, they are presented as non-current liabilities. Non-current trade payables are recognized initially at fair value and subsequently measured at amortized cost using the effective interest method.

Samsung Electronics Co., Ltd. and its subsidiaries

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

2.16 Borrowings

Borrowings are recognized initially at fair value, net of transaction costs, and are subsequently measured at amortized cost. Any difference between cost and the redemption value is recognized in the consolidated statement of profit or loss over the period of the borrowings using the effective interest method. If the Company has an indefinite right to defer payment for a period longer than 12 months after the end of the reporting date, such liabilities are recorded as non-current liabilities, otherwise, they are recorded as current liabilities.

2.17 Provisions and Contingent Liabilities

A provision is recognized when the Company has a present legal or constructive obligation as a result of a past event, it is probable that an outflow of resources embodying economic benefits will be required to settle the obligation, and a reliable estimate can be made of the amount of the obligation. Provisions are not recognized for future operating losses.

Provisions are measured at the present value of the expenditures expected to be required to settle the obligation using a pre-tax rate that reflects current market assessments of the time value of money and the risks specific to the obligation. The increase in the provision due to passage of time is recognized as interest expense.

The Company discloses a contingent liability if there is a possible obligation from past events whose existence may only be identified by the occurrence of uncertain future events; or there is a present obligations that possibility on outflow of economic resources is uncertain; or amount of economic resources required to settle the present obligation cannot be reasonably estimated.

2.18 Employee Benefits

The Company has a variety of retirement pension plans including defined benefit and defined contribution plans.

A defined contribution plan is a pension plan under which the Company pays fixed contributions into a separate fund. The Company has no legal or constructive obligations to pay further contributions if the fund does not hold sufficient assets to pay all employees the benefits relating to employee service in the current and prior periods. For defined contribution plans, the Company pays contributions to annuity plans that are managed either publicly or privately on a mandatory, contractual or voluntary basis. The Company has no further future payment obligations once the contributions have been paid. The contributions are recognized as employee benefit expense when they are due. Prepaid contributions are recognized as an asset to the extent that a cash refund or a reduction in the future payments is available.

A defined benefit plan is a pension plan that is not a defined contribution plan. Typically defined benefit plans define an amount of pension benefit that an employee will receive on retirement, usually dependent on one or more factors such as age, years of service and compensation. The liability (asset) recognized in the consolidated statement of financial position in respect to defined benefit pension plans is the present value of the defined benefit obligation at the end of the reporting period less the fair value of plan assets. The defined benefit obligation is calculated annually by independent actuaries using the projected unit credit method. The present value of the defined benefit obligation is determined by discounting the estimated future cash outflows using interest rates of high-quality corporate bonds that are denominated in the currency in which the benefits will be paid and that have terms to maturity approximating to the terms of the related pension obligation.

Actuarial gains and losses resulting from the changes in actuarial assumptions, and the differences between the previous actuarial assumptions and what has actually occurred, are recognized in other comprehensive income in the period in which they were incurred. When plan amendments, curtailments and settlements occur, past service costs or gain or loss from settlements are immediately recognized in profit or loss.

Samsung Electronics Co., Ltd. and its subsidiaries

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

2.19 Financial Guarantee Contract

Financial guarantee contracts are contracts that require the issuer to make specified payments to reimburse the holder for a loss it incurs because a specified debtor fails to make payments when due.

The liability is initially measured at fair value and then subsequently at the higher of the following, and is recognized in the consolidated statements of financial position within 'other financial liabilities':

- the amount determined in accordance with the expected credit loss model under Korean IFRS 1109 *Financial Instruments* and
- the amount initially recognized less, where appropriate, the cumulative amount of income recognized in accordance with Korean IFRS 1115 *Revenue from Contracts with Customers*.

2.20 Current and Deferred Tax

The tax expense for the year comprises current and deferred tax. Current and deferred tax is recognized in profit or loss, except to the extent that it relates to items recognized in other comprehensive income or directly in equity. The tax expense is calculated on the basis of the tax laws enacted or substantively enacted at the end of the reporting period.

Deferred tax is recognized for temporary differences arising between the tax bases of assets and liabilities and their carrying amounts as expected tax consequences at the recovery or settlement of the carrying amounts of the assets and liabilities. However, deferred tax assets and liabilities are not recognized if they arise from initial recognition of an asset or liability in a transaction other than a business combination that at the time of the transaction affects neither accounting nor taxable profit or loss. Deferred tax assets are recognized only to the extent that it is probable that future taxable profit will be available against which the temporary differences can be utilized.

A deferred tax liability is recognized for taxable temporary differences associated with investments in subsidiaries, associates, and interests in joint ventures, except to the extent that the Company is able to control the timing of the reversal of the temporary difference and it is probable that the temporary difference will not reverse in the foreseeable future. In addition, a deferred tax asset is recognized for deductible temporary differences arising from such investments to the extent that it is probable the temporary difference will reverse in the foreseeable future and taxable profit will be available against which the temporary difference can be utilized.

Deferred tax assets and liabilities are offset when there is a legally enforceable right to offset current tax assets against current tax liabilities and when the deferred income taxes assets and liabilities relate to income taxes levied by the same taxation authority on either the same taxable entity or different taxable entities where there is an intention to settle the balances on a net basis.

2.21 Derivative Instruments

The Company initially recognizes rights and obligations from derivative contracts as assets and liabilities at fair value. Gain or loss arising from these contracts are recognized in profit or loss. Qualified hedged amount from cash flow hedge and hedge of a net investment in a foreign operation is deferred in equity.

The Company applies cash flow hedge accounting to hedge the price risk associated with inventory purchase and other. The effective portion of changes in fair value of derivatives that are designated and qualify as cash flow hedges is recognized in other comprehensive income, and the ineffective portion is recognized in financial income or expenses.

2.22 Dividend

Dividend is recognized as a liability when approved by the Company's shareholders.

Samsung Electronics Co., Ltd. and its subsidiaries

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

2.23 Share Capital

Ordinary shares and preference shares with no repayment obligations are classified as equity. When the Company or a subsidiary acquires the Company's ordinary shares, the acquisition costs, including direct transaction costs, are deducted from equity until the redemption or reissuance as treasury shares. Consideration received on the reissuance of treasury shares is credited to equity attributable to owners of the parent company.

2.24 Revenue Recognition

Revenue mainly comprises the fair value of the consideration received or receivable for the sale of goods in the ordinary course of the Company's activities. Revenue is shown net of value-added tax, returns, sales incentives and discounts and after eliminating intercompany transactions.

The Company applied Korean IFRS 1115 *Revenue from Contracts with Customers* to the annual period beginning January 1, 2018. The Company shall recognize revenue in accordance with Korean IFRS 1115 *Revenue from Contracts with Customers* by applying the following 5 steps: ① Identify the contracts with the customers, ② Identify the separate performance obligations, ③ Determine the transaction price of the contract, ④ Allocate the transaction price to each of the separate performance obligations, and ⑤ Recognize the revenue as each performance obligation is satisfied.

(A) Identification of performance obligations

The Company exports various products and merchandise in accordance with Incoterms Group C trading conditions (Incoterms CIF and other). According to Korean IFRS 1115 *Revenue from Contracts with Customers* since the seller provides the shipping service after control of the product or merchandise has been transferred to the customer, the shipping service (including insurance) is recognized as a separate performance obligation.

(B) Performance obligations satisfied over time

The Company delivers products to customers and installs them in accordance with the system air conditioner contracts awarded by the Public Procurement Service. According to Korean IFRS 1115 *Revenue from Contracts with Customers* the Company should recognize revenue over time if the Company creates or enhances an asset (for example, work in progress) that the customer controls as the asset is created or enhanced. The Company recognizes the revenue from system air conditioner installation over time as the customer controls the outcome of the service.

(C) Variable consideration

The Company estimates an amount of variable consideration by using the expected value which the Company expects to better predict the amount of consideration. The Company recognizes variable consideration only to the extent that it is highly probable that a significant reversal in the amount of cumulative revenue recognized will not occur when the refund period has lapsed. The refund liability is measured at the amount of consideration received for which the Company does not expect to be entitled. The Company has a right to recover the product from the customer where the customer exercises his right of return and recognizes an asset and a corresponding adjustment to cost of sales. The asset is measured by reference to the former carrying amount of the product less the costs to recover the products.

(D) Allocation of the transaction price

The transaction price in an arrangement must be allocated to each separate performance obligation based on the relative standalone selling prices of the goods or services being provided to a customer. The Company determines the standalone selling price for each separate performance obligation by using methods such as the 'adjusted market assessment approach'.

Samsung Electronics Co., Ltd. and its subsidiaries

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

2.25 Leases

A lease is a contract, whereby the lessor conveys to the lessee, the right to control the use of an identified asset for a period of time in exchange for consideration.

At inception of a contract, the Company assesses whether the contract is, or contains, a lease. However, the Company did not reassess all contracts at initial application of Korean IFRS 1116 *Leases* because the Company applied the practical expedient to contracts entered into before January 1, 2019.

For a contract that is, or contains, a lease, both lessee and lessor account for each lease component within the contract as a lease separately from non-lease components of the contract. In lessee accounting, however, the Company does not account for them separately but instead applies the practical expedient to account for each lease component and any associated non-lease components as a single lease component.

(A) Lessee accounting

The Company recognizes a right-of-use asset representing its right to use the underlying leased asset and a lease liability representing its obligation to make lease payments at the commencement date of the lease.

The right-of-use asset is initially measured at cost and subsequently measured at cost less accumulated depreciation and accumulated impairment losses, adjusted for remeasurement of the lease liability. The right-of-use asset is depreciated over the shorter of the asset's useful life and the lease term from the commencement date of the lease and is classified as 'property, plant and equipment' in the consolidated financial statements.

At the commencement date, the lease liability is measured at present value of the lease payments that are not paid at that date. When measuring the present value, the lease payments are discounted using the interest rate implicit in the lease. If such implicit rate cannot be readily determined, the Company uses the Company's incremental borrowing rate. The lease liability is subsequently increased by the amount of interest expenses recognized on the lease liability and reduced by the lease payments made. Lease liabilities are remeasured when the future lease payments are changed due to the following:

- Changes in an index or a rate
- Changes in amounts expected to be payable by the lessee under residual value guarantees
- Changes in the assessment of whether a purchase option or an option to renew is reasonably certain to be exercised, or
- Changes in the assessment of whether it is reasonably certain that an option to terminate the lease will not be exercised.

Lease liabilities are classified as 'current portion of long-term liabilities' or 'long-term borrowings' in the consolidated financial statements.

The Company elected the practical expedient for short-term leases (leases that have a lease term of 12 months or less at the commencement date) and leases of low-value assets (leases for which the underlying asset is valued at USD 5,000 or less), and the lease payments are recognized as an expense on a straight-line basis over the lease term.

(B) Lessor accounting

The accounting treatment as a lessor did not change significantly from the Korean IFRS 1116 *Leases* initially applied on January 1, 2019.

The Company classifies a lease as a finance lease if it transfers substantially all the risks and rewards incidental to ownership at the inception of the lease. A lease other than a finance lease is classified as an operating lease. Lease income from operating leases is recognized in income on a straight-line basis over the lease term. Initial direct costs incurred by the lessor in negotiating and arranging an operating lease are added to the carrying amount of the leased asset and recognized as an expense over the lease term on the same basis as the lease income.

Samsung Electronics Co., Ltd. and its subsidiaries

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

2.26 Government Grants

Government grants are recognized at their fair values when there is reasonable assurance that the grant will be received and the Company will comply with the conditions attached to it. Government grants relating to costs are deferred and recognized in the consolidated statements of profit or loss over the period necessary to match them with the costs that they are intended to compensate. Government grants relating to assets are recognized in liabilities as deferred income government grants, depreciated over the expected lives of the related assets, and are credited to the consolidated statements of profit or loss.

2.27 Earnings per Share

Basic earnings per share is calculated by dividing net profit for the period available to ordinary shareholders by the weighted-average number of ordinary shares outstanding during the year.

Diluted earnings per share is calculated by dividing the profit for the year attributable to owners of the parent company from the consolidated statements of profit or loss by the weighted-average number of ordinary shares outstanding and potential dilutive shares. Potential dilutive shares are used in the calculation of dilutive earnings per share only when they have dilutive effects.

2.28 Reportable Segments

Reportable segments are disclosed in a manner consistent with the reporting provided to the chief operating decision-maker. The chief operating decision-maker is responsible for making strategic decisions on resource allocation and assessing performance of the reportable segments. The Management Committee, which makes strategic decisions, is regarded as the chief operating decision-maker.

2.29 Convenience Translation into United States Dollar Amounts

The Company operates primarily in Korean won and its official accounting records are maintained in Korean won. The US dollar amounts provided in the consolidated financial statements represent supplementary information solely for the convenience of the reader. All Korean won amounts are expressed in US dollar at the rate of ₩ 1,180.46 to USD 1, the average exchange rate for the year ended December 31, 2020. Such presentation is not in accordance with generally accepted accounting principles, and should not be construed as a representation that the Korean won amounts shown could be readily converted, realized or settled in US dollar at this or at any other rate.

2.30 Approval of the Consolidated Financial Statements

These consolidated financial statements were approved by the Board of Directors on January 28, 2021, may be modified and approved at the Annual General Shareholders' Meetings.

Samsung Electronics Co., Ltd. and its subsidiaries

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

3. Critical Accounting Estimates and Assumptions

The Company makes estimates and assumptions concerning the future. The estimates and assumptions are continuously assessed, considering historical experience and other factors, including expectations of future events that are believed to be reasonable under the circumstances. The resulting accounting estimates will, by definition, seldom equal the related actual results. In particular, the recent spread of COVID-19 during the year ended December 31, 2020 may result in changes to the Company's assumptions and estimates but its potential financial impact cannot be reasonably estimated as of the reporting date.

The estimates and assumptions that have a significant risk of causing a material adjustment to the carrying amounts of assets and liabilities within the next financial year are addressed below.

(A) Revenue recognition

A refund liability and a right to the returned goods are recognized for the products expected to be returned at the time of sale. Accumulated experience is used to estimate such returns at the time of sale at a portfolio level (expected value method), and the Company's revenue is affected by changes in expected return rate.

Sales of goods are recognized based on considerations specified in the contract, net of sales incentives, when control of the products has transferred. The sales deduction, which affects the Company's revenue, is reasonably estimated based on historical experience and past contracts.

(B) Provision for warranty

The Company recognizes provision for warranty on products sold. The Company accrues provision for warranty based on the best estimate of amounts necessary to settle future and existing claims at the end of each reporting period. The amounts are estimated based on past experience.

(C) Fair value of financial instruments

The fair value of financial instruments that are not traded in an active market is determined by using a variety of methods and assumptions that are mainly based on market conditions existing at the end of each reporting period.

(D) Impairment of financial assets

The loss allowance for financial assets are based on assumptions about risk of default and expected loss rates. The Company uses judgement in making these assumptions and selecting the inputs to the impairment calculation based on the Company's past history, existing market conditions as well as forward looking estimates at the end of each reporting period.

(E) Lease

In determining the lease term, the Company considers all facts and circumstances that create an economic incentive to exercise an extension option, or not exercise a termination option. Extension options (or periods after termination options) are only included in the lease term if the lease is reasonably certain to be extended (or not terminated).

The lease term is reassessed if an option is actually exercised (or not exercised) or the Company becomes obliged to exercise (or not exercise) it. The Company reassesses whether it is reasonably certain to exercise an extension option (or not to exercise such option), upon the occurrence of either a significant event or a significant change in circumstances that is within the control of the lessee.

Samsung Electronics Co., Ltd. and its subsidiaries

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

(F) Net defined benefit liabilities (assets)

The net defined benefit liabilities (assets) depend on a number of factors that are determined on an actuarial basis using a number of assumptions including the discount rate. Any changes in these assumptions will impact the carrying amount of the net defined benefit liability. The Company, in consideration of the interest rates of high-quality corporate bonds, determines the appropriate discount rate at the end of each year. This is the interest rate that is used to determine the present value of estimated future cash outflows expected to be required to settle the net defined benefit liabilities (assets). The principal actuarial assumptions associated with the net defined benefit liabilities (assets) are based on the current market expectations.

(G) Impairment of goodwill and intangible assets that have an indefinite useful life

At the end of each reporting period, the Company tests whether goodwill and intangible assets that have an indefinite useful life have become impaired by comparing the carrying amounts of assets or cash-generating units to the recoverable amounts. The recoverable amounts of assets or cash-generating units have been determined based on value-in-use calculations, and these calculations are based on estimates.

(H) Income taxes

Income taxes on the Company's taxable income from operating activities are subject to various tax laws and determinations of each tax authority across various countries throughout the world. There is uncertainty in determining the eventual tax effects on the taxable income from operating activities. The Company has recognized current tax and deferred tax at the end of the fiscal year based on the best estimation of future taxes payable as a result of operating activities. However, the resulting deferred income tax assets and liabilities may not equal the actual future taxes payable and such difference may impact the current tax and deferred income tax assets and liabilities upon the determination of eventual tax effects.

Regarding taxes payable in Korea, if a certain portion of taxable income is not used for investments or for increases in wages or dividends, in accordance with the *Tax System For Recirculation of Corporate Income*, the Company is liable to pay additional income tax calculated based on Korean tax law. The current and deferred tax at the end of the fiscal year are based on the best estimation of future taxes payable, which can differ from actual future taxes payable as a result of changes in investments, wages and dividends, and thus results in additional uncertainty in measuring the final tax effects.

The Company assesses uncertainty over a tax treatment. When the Company concludes it is not probable that the taxation authority will accept an uncertain tax treatment, the Company will reflect the effect of uncertainty for each uncertain tax treatment by using either of the following methods, depending on which method the Company expects to better predict the resolution of the uncertainty:

- The most likely amount: the single most likely amount in a range of possible outcomes.
- The expected value: the sum of the probability-weighted amounts in a range of possible outcomes.

Samsung Electronics Co., Ltd. and its subsidiaries

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

4. Financial Instruments by Category

(A) Categorizations of financial assets and liabilities as of December 31, 2020 and 2019 are as follows:

(1) As of December 31, 2020

<i>(In millions of Korean won)</i>	Financial assets measured at value through other comprehensive income	Financial assets measured at fair value through profit or loss	Other financial assets¹	Total
Financial assets				
Cash and cash equivalents	29,382,578	-	-	29,382,578
Short-term financial instruments	92,441,703	-	-	92,441,703
Trade receivables	30,965,058	-	-	30,965,058
Financial assets at amortized cost	2,757,111	-	-	2,757,111
Financial assets at fair value through other comprehensive income	-	12,575,216	-	12,575,216
Financial assets at fair value through profit or loss	-	1,274,420	-	1,274,420
Other	6,395,766	-	23,310	6,634,873
Total	161,942,216	12,575,216	1,490,217	176,030,959

¹Other financial assets include derivatives designated as hedging instruments which are not subject to categorizations.

<i>(In millions of Korean won)</i>	Financial liabilities measured at amortized cost	Financial liabilities measured at fair value through profit or loss	Other financial liabilities¹	Total
Financial liabilities				
Trade payables	9,739,222	-	-	9,739,222
Short-term borrowings	2,278,386	-	14,275,043	16,553,429
Other payables	10,645,637	-	-	10,645,637
Current portion of long-term liabilities	5,318	-	710,781	716,099
Debentures	948,137	-	-	948,137
Long-term borrowings	-	-	1,999,716	1,999,716
Long-term other payables	1,272,128	2,176	-	1,274,304
Other	9,354,624	242,698	41,930	9,639,252
Total	34,243,452	244,874	17,027,470	51,515,796

¹ Other financial liabilities include collateralized borrowings, lease liabilities and derivatives designated as hedging instruments which are not subject to categorizations.

Samsung Electronics Co., Ltd. and its subsidiaries

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

(2) As of December 31, 2019

<i>(In millions of Korean won)</i>	Financial assets measured at amortized cost	Financial assets measured at fair value through other comprehensive income	Financial assets measured at fair value through profit or loss	Other financial assets¹	Total
Financial assets					
Cash and cash equivalents	26,885,999	-	-	-	26,885,999
Short-term financial instruments	76,252,052	-	-	-	76,252,052
Trade receivables	35,131,343	-	-	-	35,131,343
Financial assets at amortized cost	3,914,216	-	-	-	3,914,216
Financial assets at fair value through other comprehensive income	-	8,920,712	-	-	8,920,712
Financial assets at fair value through profit or loss	-	-	2,776,440	-	2,776,440
Other	9,656,415	-	181,682	26,444	9,864,541
Total	151,840,025	8,920,712	2,958,122	26,444	163,745,303

¹ Other financial assets include derivatives designated as hedging instruments which are not subject to categorizations.

<i>(In millions of Korean won)</i>	Financial liabilities measured at amortized cost	Financial liabilities measured at fair value through profit or loss	Other financial liabilities¹	Total
Financial liabilities				
Trade payables	8,718,222	-	-	8,718,222
Short-term borrowings	2,659,107	-	11,734,361	14,393,468
Other payables	11,034,253	-	-	11,034,253
Current portion of long-term liabilities	41,022	-	805,068	846,090
Debentures	975,298	-	-	975,298
Long-term borrowings	-	-	2,197,181	2,197,181
Long-term other payables	1,820,611	2,316	-	1,822,927
Other	8,158,935	204,671	10,540	8,374,146
Total	33,407,448	206,987	14,747,150	48,361,585

¹ Other financial liabilities include collateralized borrowings, lease liabilities, and derivatives designated as hedging instruments which are not subject to categorizations.

Samsung Electronics Co., Ltd. and its subsidiaries

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

(B) Net gains or losses on each category of financial assets and liabilities for the years ended December 31, 2020 and 2019 are as follows:

(1) 2020

<i>(In millions of Korean won)</i>	Financial assets measured at amortized cost	Financial assets measured at fair value through other comprehensive income	Financial assets measured at fair value through profit or loss	Other financial assets	Total
Financial assets					
Gain (loss) on valuation (other comprehensive income)	-	2,502,733	-	(1,823)	2,500,910
Gain (loss) on valuation/disposal (profit or loss)	(6,725)	-	206,850	126	200,251
Reclassification from other comprehensive income to profit or loss	-	-	-	981	981
Interest income	1,974,141	-	317	-	1,974,458
Foreign exchange differences (profit or loss)	(886,631)	-	-	-	(886,631)
Dividend income	-	149,617	2,823	-	152,440
Impairment/reversal (profit or loss)	(42,824)	-	-	-	(42,824)

<i>(In millions of Korean won)</i>	Financial liabilities measured at amortized cost	Financial liabilities measured at fair value through profit or loss	Other financial liabilities¹	Total
Financial liabilities				
Gain (loss) on valuation (other comprehensive income)	-	-	(22,995)	(22,995)
Gain (loss) on valuation/disposal (profit or loss)	-	86,371	(154)	86,217
Reclassification from other comprehensive income to profit or loss	-	-	12,368	12,368
Interest expense	(302,782)	-	(280,231)	(583,013)
Foreign exchange differences (profit or loss)	180,110	-	9,730	189,840

¹ Other financial liabilities include collateralized borrowings, lease liabilities, and derivatives designated as hedging instruments, which are not subject to categorizations.

Samsung Electronics Co., Ltd. and its subsidiaries

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

(2) 2019

<i>(In millions of Korean won)</i>	Financial assets measured at amortized cost	Financial assets measured at fair value through other comprehensive income	Financial assets measured at fair value through profit or loss	Other financial assets	Total
Financial assets					
Gain on valuation (other comprehensive income)	-	1,146,599	-	4,735	1,151,334
Gain (loss) on valuation/disposal (profit or loss)	(14,874)	-	225,273	(59)	210,340
Reclassification from other comprehensive income to profit or loss	-	-	-	3,830	3,830
Interest income	2,659,740	-	284	-	2,660,024
Foreign exchange differences (profit or loss)	(328,213)	-	-	-	(328,213)
Dividend income	-	152,091	2,588	-	154,679
Impairment/reversal (profit or loss)	188,530	-	(5,398)	-	183,132

<i>(In millions of Korean won)</i>	Financial liabilities measured at amortized cost	Financial liabilities measured at fair value through profit or loss	Other financial liabilities¹	Total
Financial liabilities				
Gain on valuation (other comprehensive loss)	-	-	20,277	20,277
Gain (loss) on valuation/disposal (profit or loss)	-	(3,237)	1,033	(2,204)
Reclassification from other comprehensive income to profit or loss	-	-	16,399	16,399
Interest expense	(248,659)	-	(437,697)	(686,356)
Foreign exchange differences (profit or loss)	167,164	-	90,145	257,309

¹ Other financial liabilities include collateralized borrowings, lease liabilities, and derivatives designated as hedging instruments, which are not subject to categorizations.

Samsung Electronics Co., Ltd. and its subsidiaries

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

5. Transfer of Financial Assets

Trade receivables of the Company have been discounted through factoring agreements with banks during the years ended December 31, 2020 and 2019. Trade receivables provided as collaterals in such factoring transactions do not meet the requirements for asset derecognition as risks and rewards are not substantially transferred in the event the debtor defaults due to a recourse obligation, etc. Financial liabilities recognized in relation to these transactions are included as ‘short-term borrowings’ on the consolidated statements of financial position (refer to Note 12).

The following table presents a breakdown of discounted trade receivables as of December 31, 2020 and 2019:

<i>(In millions of Korean won)</i>	December 31, 2020	December 31, 2019
Carrying amount of the discounted trade receivables ¹	14,275,043	11,734,361
Carrying amount of the related borrowings	14,275,043	11,734,361

¹ The discounted trade receivables include intercompany balances.

6. Financial Assets at Fair Value

(A) Details of financial assets at fair value as of December 31, 2020 and 2019 are as follows:

(1) Financial assets at fair value through other comprehensive income

<i>(In millions of Korean won)</i>	December 31, 2020	December 31, 2019
Non-current portion		
Equity instruments	12,575,216	8,920,712

(2) Financial assets at fair value through profit or loss

<i>(In millions of Korean won)</i>	December 31, 2020	December 31, 2019
Current portion		
Debt instruments	71,451	1,727,436
Non-current portion		
Equity instruments	819,144	704,155
Debt instruments	383,825	344,849
Subtotal	1,202,969	1,049,004
Total	1,274,420	2,776,440

Samsung Electronics Co., Ltd. and its subsidiaries

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

(B) Changes in financial assets at fair value for the years ended December 31, 2020 and 2019 are as follows:

(1) Financial assets at fair value through other comprehensive income

<i>(In millions of Korean won)</i>	2020	2019
Balance as of January 1	8,920,712	7,301,351
Acquisition	245,497	63,447
Disposal	(23,872)	(950)
Fair value valuation gain	3,423,908	1,497,600
Other	8,971	59,264
Balance as of December 31	12,575,216	8,920,712

(2) Financial assets at fair value through profit or loss

<i>(In millions of Korean won)</i>	2020	2019
Balance as of January 1	1,049,004	775,427
Acquisition	84,184	138,125
Disposal	(37,554)	(55,509)
Fair value valuation gain	122,042	200,533
Other	(14,707)	(9,572)
Balance as of December 31	1,202,969	1,049,004

(C) Changes in gain on valuation of financial assets at fair value through other comprehensive income for the years ended December 31, 2020 and 2019 are as follows:

<i>(In millions of Korean won)</i>	2020	2019
Balance as of January 1	3,663,998	2,165,131
Fair value valuation gain	3,423,908	1,497,600
Reclassification to retained earnings due to disposals	(16,491)	1,267
Balance as of December 31	7,071,415	3,663,998
Income tax effects on equity and non-controlling interests	(2,095,659)	(1,090,468)
Total	4,975,756	2,573,530

Samsung Electronics Co., Ltd. and its subsidiaries

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

(D) Details of listed equity securities of financial assets at fair value as of December 31, 2020 and 2019 are as follows:

<i>(In millions of Korean won, number of shares and percentage)</i>	December 31, 2020			December 31, 2019	
	Number of shares owned	Percentage of ownership ¹ (%)	Acquisition cost	Carrying amount (Market value)	Carrying amount (Market value)
Samsung Heavy Industries	100,693,398	16.0	735,488	708,882	732,041
Hotel Shilla	2,004,717	5.1	13,957	164,988	182,028
iMarket Korea	647,320	1.8	324	5,658	6,732
Wonik Holdings	3,518,342	4.6	30,821	22,306	19,210
Wonik IPS	3,701,872	7.5	32,428	163,808	132,712
SFA	3,644,000	10.2	38,262	140,658	168,535
ASML Holding N.V	6,297,787	1.5	363,012	3,350,532	2,154,676
Wacom Co., Ltd	8,398,400	5.0	62,013	76,589	39,765
BYD Company Limited	52,264,808	1.9	528,665	1,695,488	412,935
Other			491,958	1,012,825	419,868
Total			2,296,928	7,341,734	4,268,502

¹ Ownership represents the Company's ownership of the total ordinary shares issued by each entity.

7. Trade and Non-Trade Receivables

(A) Trade and non-trade receivables as of December 31, 2020 and 2019 are as follows:

<i>(In millions of Korean won)</i>	December 31, 2020		December 31, 2019	
	Trade	Non-trade	Trade	Non-trade
Receivables	31,369,364	4,065,404	35,882,903	4,584,259
Less: Loss allowance	(318,731)	(59,487)	(340,410)	(58,666)
Subtotal	31,050,633	4,005,917	35,542,493	4,525,593
Less: Non-current portion	(85,575)	(401,378)	(411,150)	(346,473)
Current portion	30,965,058	3,604,539	35,131,343	4,179,120

(B) Movements in the loss allowance for receivables for the years ended December 31, 2020 and 2019 are as follows:

<i>(In millions of Korean won)</i>	2020		2019	
	Trade	Non-trade	Trade	Non-trade
Balance as of January 1	340,410	58,666	571,564	31,045
Bad debt expense (reversal)	40,006	2,869	(183,380)	(5,115)
Write-off	(40,384)	(103)	(14,571)	(539)
Other	(21,301)	(1,945)	(33,203)	33,275
Balance as of December 31	318,731	59,487	340,410	58,666

Samsung Electronics Co., Ltd. and its subsidiaries

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

(C) The details of trade and non-trade receivables classified by past due date to measure expected credit losses as of December 31, 2020 and 2019 are as follows:

<i>(In millions of Korean won)</i>	December 31, 2020		December 31, 2019	
	Trade	Non-trade	Trade	Non-trade
Receivables not past due	29,395,528	3,585,376	33,215,136	4,365,708
Past due ¹ :				
Less than 31 days overdue	1,269,398	129,054	1,830,749	106,313
31 days to 90 days overdue	137,568	42,603	323,640	20,343
Over 90 days overdue	566,870	308,371	513,378	91,895
Subtotal	1,973,836	480,028	2,667,767	218,551
Total	31,369,364	4,065,404	35,882,903	4,584,259

¹ The Company does not consider trade and non-trade receivables that are overdue for less than or equal to 31 days as impaired.

(D) The maximum exposure to current credit risk is equivalent to the carrying amount of receivables as of December 31, 2020. The Company has in place insurance contracts covering the Company's major receivables.

8. Inventories

Inventories as of December 31, 2020 and 2019 are as follows:

<i>(In millions of Korean won)</i>	December 31, 2020			December 31, 2019		
	Gross amount	Valuation allowance	Carrying amount	Gross amount	Valuation allowance	Carrying amount
Finished goods	9,711,668	(323,782)	9,387,886	8,460,621	(345,505)	8,115,116
Work in process	12,144,887	(326,797)	11,818,090	10,424,880	(538,246)	9,886,634
Raw materials and supplies	10,464,679	(673,913)	9,790,766	8,288,265	(541,155)	7,747,110
Materials in transit	1,046,403	-	1,046,403	1,017,604	-	1,017,604
Total	33,367,637	(1,324,492)	32,043,145	28,191,370	(1,424,906)	26,766,464

The inventories recognized as expense for the year ended December 31, 2020, amount to ₩ 143,172,743 million (2019: ₩ 145,793,517 million). The amount includes loss on valuation of inventories.

Samsung Electronics Co., Ltd. and its subsidiaries

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

9. Investments in Associates and Joint Ventures

(A) Changes in investments in associates and joint ventures for the years ended December 31, 2020 and 2019 are as follows:

<i>(In millions of Korean won)</i>	2020	2019
Balance as of January 1	7,591,612	7,313,206
Acquisition	83,280	12,822
Disposal	-	(1,437)
Share of profit	506,530	412,960
Other ¹	(104,643)	(145,939)
Balance as of December 31	8,076,779	7,591,612

¹ Other consists of dividends, impairment, and reclassification.

(B) Major investments in associates and joint ventures as of December 31, 2020 are as follows:

(1) Investments in associates

Investee	Nature of relationship with associate	Percentage of ownership (%)¹	Principal business location	Fiscal period-end
Samsung Electro-Mechanics Co., Ltd.	Manufacture and supply electronic components including passive components, circuit boards, and modules	23.7	Korea	December
Samsung SDS Co., Ltd.	Provide IT services including computer programming, system integration and management and logistical services	22.6	Korea	December
Samsung Biologics Co., Ltd.	New business investment	31.5	Korea	December
Samsung SDI Co., Ltd. ²	Manufacture and supply electronic components including secondary cell batteries	19.6	Korea	December
Cheil Worldwide, Inc.	Advertising agency	25.2	Korea	December

¹ Ownership represents the Company's ownership of the total ordinary shares issued by each entity.

² The Company's ownership of ordinary shares outstanding is 20.6%.

(2) Investments in joint ventures

Investee	Nature of relationship with joint venture	Percentage of ownership (%)¹	Principal business location	Fiscal period-end
Samsung Corning Advanced Glass Co., Ltd.	Manufacture and supply industrial glass devices	50.0	Korea	December

¹ Ownership represents the Company's ownership of the total ordinary shares issued by each entity.

Samsung Electronics Co., Ltd. and its subsidiaries

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

(C) Details of investments in associates and joint ventures as of December 31, 2020 and 2019 are as follows:

(1) Investments in associates

(In millions of Korean won)

Investee	Acquisition cost	December 31, 2020	
		Net asset value of equity shares ¹	Carrying amount
Samsung Electro-Mechanics	359,237	1,351,864	1,333,819
Samsung SDS	147,963	1,506,421	1,525,857
Samsung Biologics	443,193	1,448,259	1,453,012
Samsung SDI	1,242,605	2,612,629	2,326,037
Cheil Worldwide	506,162	288,877	586,057
Other	620,233	458,182	666,506
Total	3,319,393	7,666,232	7,891,288

¹ The Company's portion of net asset value of associates is based on the Company's percentage of ownership.

(In millions of Korean won)

Investee	Acquisition cost	December 31, 2019	
		Net asset value of equity shares ¹	Carrying amount
Samsung Electro-Mechanics	359,237	1,237,753	1,152,734
Samsung SDS	147,963	1,478,586	1,499,571
Samsung Biologics	443,193	1,371,315	1,377,043
Samsung SDI	1,242,605	2,481,233	2,233,516
Cheil Worldwide	506,162	271,409	570,215
Other	550,404	373,606	523,794
Total	3,249,564	7,213,902	7,356,873

¹ The Company's portion of net asset value of associates is based on the Company's percentage of ownership.

(2) Investments in joint ventures

(In millions of Korean won)

Investee	Acquisition cost	December 31, 2020	
		Net asset value of equity shares ¹	Carrying amount
Samsung Corning Advanced Glass	215,000	123,360	123,356
Other	259,994	68,875	62,135
Total	474,994	192,235	185,491

¹ The Company's portion of net asset value of joint ventures is based on the Company's percentage of ownership.

(In millions of Korean won)

Investee	Acquisition cost	December 31, 2019	
		Net asset value of equity shares ¹	Carrying amount
Samsung Corning Advanced Glass	215,000	173,746	173,742
Other	259,994	66,848	60,997

Samsung Electronics Co., Ltd. and its subsidiaries

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

Total	474,994	240,594	234,739
--------------	---------	---------	---------

¹ The Company's portion of net asset value of joint ventures is based on the Company's percentage of ownership.

(D) Details of the valuation of investments in associates and joint ventures using the equity method are as follows:

(1) For the year ended December 31, 2020

<i>(In millions of Korean won)</i>	Balance as of January 1	Share of profit (loss)	Share of other comprehensive income	Other¹	Balance as of December 31
Samsung Electro-Mechanics	1,152,734	199,249	1,298	(19,462)	1,333,819
Samsung SDS	1,499,571	100,231	(36,057)	(37,888)	1,525,857
Samsung Biologics	1,377,043	73,135	2,834	-	1,453,012
Samsung SDI	2,233,516	62,106	43,878	(13,463)	2,326,037
Cheil Worldwide	570,215	44,433	(4,780)	(23,811)	586,057
Samsung Corning Advanced Glass	173,742	(51,175)	789	-	123,356
Other	584,791	78,551	(51,259)	116,558	728,641
Total	7,591,612	506,530	(43,297)	21,934	8,076,779

¹ Other consists of acquisitions, disposals, dividends, impairment and reclassification.

(2) For the year ended December 31, 2019

<i>(In millions of Korean won)</i>	Balance as of January 1	Share of profit	Share of other comprehensive income	Other¹	Balance as of December 31
Samsung Electro-Mechanics	1,126,043	38,458	5,926	(17,693)	1,152,734
Samsung SDS	1,376,321	166,385	(8,191)	(34,944)	1,499,571
Samsung Biologics	1,308,546	64,571	3,926	-	1,377,043
Samsung SDI	2,197,335	34,279	15,365	(13,463)	2,233,516
Cheil Worldwide	549,165	42,049	1,360	(22,359)	570,215
Samsung Corning Advanced Glass	173,499	34	209	-	173,742
Other	582,297	67,184	13,802	(78,492)	584,791
Total	7,313,206	412,960	32,397	(166,951)	7,591,612

¹ Other consists of acquisitions, disposals, dividends, impairment, and reclassification.

Samsung Electronics Co., Ltd. and its subsidiaries

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

(E) Summary of the condensed financial information of major associates and joint ventures

- (1) Summary of condensed financial information of major associates and dividends received from associates as of December 31, 2020 and 2019, and for the years ended December 31, 2020 and 2019 are as follows:

<i>(In millions of Korean won)</i>	2020				
	Samsung Electro- Mechanics	Samsung SDS	Samsung Biologics	Samsung SDI	Cheil Worldwide
1. Condensed financial information					
Condensed statements of financial position :					
Current assets	4,150,303	6,581,153	1,751,347	5,657,405	1,742,270
Non-current assets	5,075,196	2,573,766	4,672,854	15,876,827	500,194
Current liabilities	1,914,880	1,720,757	589,301	4,983,633	1,046,224
Non-current liabilities	1,400,223	575,054	1,236,117	3,191,672	180,710
Non-controlling interests	138,107	190,081	-	381,311	7,988
Condensed statements of comprehensive income:					
Revenue	8,208,738	11,017,432	1,164,777	11,294,770	2,747,922
Profit from continuing operations, net of tax ¹	595,938	443,455	240,975	574,723	157,400
Profit from discontinued operation, net of tax ¹	8,024	-	-	-	-
Other comprehensive income (loss) ¹	(33,475)	(134,669)	3,354	144,901	(14,795)
Total comprehensive income ¹	570,487	308,786	244,329	719,624	142,605
Details of adjustments from the carrying amount of investments in associates					
Net assets (a)	5,772,289	6,669,027	4,598,783	12,977,616	1,007,541
Ownership percentage (b) ²	23.4%	22.6%	31.5%	20.1%	28.7%
Net assets of equity shares (a x b)	1,351,864	1,506,421	1,448,259	2,612,629	288,877
Goodwill	7,081	26,801	3,645	-	298,779
Intercompany transactions and other ³	(25,126)	(7,365)	1,108	(286,592)	(1,599)
Carrying amount of associates	1,333,819	1,525,857	1,453,012	2,326,037	586,057
2. Dividends from associates					
Dividends	19,462	41,933	-	13,463	23,811

¹ Profit (loss) attributable to owners of the investee

² Ownership percentage includes ordinary and preference shares.

³ Consists of unrealized gains and losses and other differences.

Samsung Electronics Co., Ltd. and its subsidiaries

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

<i>(In millions of Korean won)</i>	2019				
	Samsung Electro- Mechanics	Samsung SDS	Samsung Biologics	Samsung SDI	Cheil Worldwide
1. Condensed financial information					
Condensed statements of financial position:					
Current assets	3,507,525	6,383,847	1,356,262	5,181,415	1,787,299
Non-current assets	5,166,724	2,637,389	4,555,365	14,670,682	504,347
Current liabilities	1,850,405	1,698,187	690,505	3,741,523	1,115,652
Non-current liabilities	1,393,746	597,891	866,668	3,450,229	219,178
Non-controlling interests	145,050	179,362	-	335,408	10,197
Condensed statements of comprehensive income:					
Revenue	8,040,818	10,719,632	701,592	10,097,426	3,421,673
Profit from continuing operations, net of tax ¹	605,725	736,458	202,904	356,549	138,055
Profit from discontinued operation, net of tax ¹	(91,428)	-	-	-	-
Other comprehensive income (loss) ¹	26,270	(17,665)	(3,919)	137,272	2,172
Total comprehensive income ¹	540,567	718,793	198,985	493,821	140,227
Details of adjustments from the carrying amount of investments in associates					
Net assets (a)	5,285,048	6,545,796	4,354,454	12,324,937	946,619
Ownership percentage (b) ²	23.4%	22.6%	31.5%	20.1%	28.7%
Net assets of equity shares (a x b)	1,237,753	1,478,586	1,371,315	2,481,233	271,409
Goodwill	7,081	26,801	3,645	-	298,779
Intercompany transactions and other ³	(92,100)	(5,816)	2,083	(247,717)	27
Carrying amount of associates	1,152,734	1,499,571	1,377,043	2,233,516	570,215
2. Dividends from associates					
Dividends	17,693	34,944	-	13,463	22,359

¹ Profit (loss) attributable to owners of the investee.

² Ownership percentage includes ordinary and preference shares.

³ Consists of unrealized gains and losses and other differences.

Samsung Electronics Co., Ltd. and its subsidiaries

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

- (2) Summary of condensed financial information of major joint ventures and dividends received from joint ventures as of December 31, 2020 and 2019, and for the years ended December 31, 2020 and 2019 are as follows:

<i>(In millions of Korean won)</i>	Samsung Corning Advanced Glass	
	2020	2019
Condensed financial information		
Condensed statements of financial position:		
Current assets	133,896	164,870
Non-current assets	153,792	225,335
Current liabilities	39,151	40,567
Non-current liabilities	1,817	2,146
Condensed statements of comprehensive income:		
Revenue	144,016	156,448
Profit (loss) from continuing operations, net of tax ¹	(12,668)	6,127
Profit (loss) from discontinued operations, net of tax ¹	(89,681)	(6,059)
Other comprehensive income ¹	1,578	418
Total comprehensive income ¹	(100,771)	486
Details of adjustments from the carrying amount of investments in joint ventures		
Net assets (a)	246,720	347,492
Ownership percentage (b)	50.00%	50.00%
Net assets of equity shares (a x b)	123,360	173,746
Intercompany transactions and other ²	(4)	(4)
Carrying amount of joint ventures	123,356	173,742
Dividends from joint ventures		
Dividends	-	-

¹ Profit (loss) attributable to owners of the parent company.

² Consists of unrealized gains and losses and other differences.

- (3) Profit (loss) attributable to owners of the parent company from associates and joint ventures which are not individually material for the years ended December 31, 2020 and 2019 are as follows:

<i>(In millions of Korean won)</i>	2020		2019	
	Associates	Joint ventures	Associates	Joint ventures
Profit from continuing operations	77,296	1,255	65,635	1,549
Other comprehensive income (loss)	(49,185)	(2,074)	10,714	3,088
Total comprehensive income (loss)	28,111	(819)	76,349	4,637

Samsung Electronics Co., Ltd. and its subsidiaries

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

(F) Details of marketable investments in associates as of December 31, 2020 and 2019 are as follows:

<i>(In millions of Korean won and number of shares)</i>	December 31, 2020		December 31, 2019
	Number of shares held	Market value	Market value
Samsung Electro-Mechanics	17,693,084	3,149,369	2,211,636
Samsung SDS	17,472,110	3,118,772	3,398,325
Samsung Biologics	20,836,832	17,211,223	9,022,348
Samsung SDI	13,462,673	8,454,559	3,177,191
Cheil Worldwide	29,038,075	598,184	698,366

(G) Other matters

On July 12, 2018, the Korea Securities and Futures Commission determined an initial measure following an investigation relating to Samsung Biologics Co., Ltd., an associate of the Company, and its accounting for its investment in Samsung Bioepis Co., Ltd, a joint venture between Biogen Therapeutics Inc. and Samsung Biologics Co., Ltd. This measure included a recommendation to dismiss the director in charge, prosecution charges, and external auditor designation by the regulator, on the basis that the Joint Venture Agreement was not disclosed in the notes to the financial statements. On November 14, 2018, the Korea Securities and Futures Commission determined a second measure which included a penalty of ₩ 8,000 million, a recommendation to dismiss the CEO, a requirement to restate its financial statements, and further prosecution charges.

To prove justification of its accounting treatment, Samsung Biologics Co., Ltd. filed a suit for cancellation of the aforementioned measures to the Seoul Administrative Court, which is currently in progress. On September 24, 2020, the Seoul Administrative Court announced a decision to cancel the first measure charged by the Korea Securities and Futures Commission, and suspended its execution until the final rulings of the appeal. On October 16, 2020, the Korea Securities and Futures Commission appealed and the litigation is in progress at Seoul High Court. Samsung Biologics Co., Ltd. also filed for suspending the execution of the initial and second measures. On January 22, 2019 and February 19, 2019, the Seoul Administrative Court pronounced decisions to suspend the second and initial measure, respectively, until the final rulings. The Korea Securities and Futures Commission immediately appealed against the decisions but the appeals were dismissed by the Seoul High Court on May 13, 2019 and May 24, 2019, in relation to the second and first measures, respectively. On May 23, 2019 and June 10, 2019, The Korea Securities and Futures Commission re-appealed against the dismissals relating to the second and first measures, respectively. On September 6, 2019 and October 11, 2019, the Supreme Court of Korea dismissed the Korea Securities and Futures Commission's re-appeal relating to the second and first measures, respectively, and confirmed the decision to suspend execution of these measures.

Although the future outcome of the administrative litigation cannot be estimated, should Samsung Biologics Co., Ltd. be required to restate its financial statements to amend its historical accounting treatment relating to its investment in Samsung Bioepis Co., Ltd., the Company's share of profit or loss relating to its equity method investment, the amount of investment in associates, and retained earnings, for the years ended December 31, 2015 and onwards, and the profit on disposal of investment for the year ended December 31, 2016, may be impacted. Given the timing of completion and the final result of the administrative litigation between Samsung Biologics Co., Ltd. and the Korea Securities and Futures Commission is uncertain and cannot currently be estimated, it is not possible for the Company to recognize the effects of these proceedings in the current period consolidated financial statements.

Samsung Electronics Co., Ltd. and its subsidiaries

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

10. Property, Plant and Equipment

(A) Changes in property, plant and equipment for the years ended December 31, 2020 and 2019 are as follows:

<i>(In millions of Korean won)</i>	2020					Total
	Land	Buildings and structures	Machinery and equipment	Construction in progress	Other	
Balance as of January 1	9,774,554	30,469,620	52,149,936	23,930,019	3,501,345	119,825,474
Acquisition cost	9,828,309	48,839,439	211,416,021	23,930,019	10,061,981	304,075,769
Accumulated depreciation and impairment	(53,755)	(18,369,819)	(159,266,085)	-	(6,560,636)	(184,250,295)
Acquisitions and capital expenditures ¹	141,197	8,524,794	32,907,696	(3,443,884)	1,281,811	39,411,614
Depreciation	(45,707)	(2,978,741)	(22,780,113)	-	(1,311,174)	(27,115,735)
Disposals/scrap	(20,308)	(276,235)	(108,935)	(618)	(104,829)	(510,925)
Impairment(reversal)	-	(3,627)	(316,723)	-	(4,806)	(325,156)
Reclassification to assets held-for-sale	(29,275)	(540,258)	(181,744)	(8,947)	(6,390)	(766,614)
Other ²	(48,305)	(643,549)	(675,987)	(300,653)	102,728	(1,565,766)
Balance as of December 31	9,772,156	34,552,004	60,994,130	20,175,917	3,458,685	128,952,892
Acquisition cost	9,850,942	55,026,369	233,056,501	20,175,917	10,496,584	328,606,313
Accumulated depreciation and impairment	(78,786)	(20,474,365)	(172,062,371)	-	(7,037,899)	(199,653,421)

¹ The capitalized borrowing costs are ₩ 3,897 million and the interest rate used to calculate the borrowing costs eligible for capitalization is 0.6%.

² Other includes effects of changes in foreign currency exchange rates and effects of the offset related to government grants.

<i>(In millions of Korean won)</i>	2019					Total
	Land	Buildings and structures	Machinery and equipment	Construction in progress	Other	
Balance as of January 1	9,346,285	29,345,910	63,816,231	9,705,056	3,203,242	115,416,724
Acquisition cost	9,346,285	45,033,843	206,407,913	9,705,056	8,665,069	279,158,166
Accumulated depreciation and impairment	-	(15,687,933)	(142,591,682)	-	(5,461,827)	(163,741,442)
Acquisitions and capital expenditures ¹	144,291	1,760,347	10,488,174	14,490,901	1,136,367	28,020,080
Acquisitions through business combinations	2,310	21,481	381,117	7,488	5,262	417,658
Depreciation	(31,118)	(2,658,371)	(22,664,896)	-	(1,219,431)	(26,573,816)
Disposals, scrap	(97,930)	(287,546)	(180,627)	(577)	(75,218)	(641,898)
Impairment (reversal)	-	-	(85,215)	-	(8,344)	(93,559)
Other ²	410,716	2,287,799	395,152	(272,849)	459,467	3,280,285
Balance as of December 31	9,774,554	30,469,620	52,149,936	23,930,019	3,501,345	119,825,474
Acquisition cost	9,828,309	48,839,439	211,416,021	23,930,019	10,061,981	304,075,769
Accumulated depreciation and impairment	(53,755)	(18,369,819)	(159,266,085)	-	(6,560,636)	(184,250,295)

¹ The capitalized borrowing costs are ₩ 6,331 million and the interest rate used to calculate the borrowing costs eligible for capitalization is 2.1%.

² Other includes the cumulative effect of changes in accounting policies, effects of changes in foreign currency exchange rates and effects of the offset related to government grants.

Samsung Electronics Co., Ltd. and its subsidiaries

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

(B) Changes in right-of-use assets included in the property, plant and equipment for the years ended December 31, 2020 and 2019 are as follows:

<i>(In millions of Korean won)</i>	2020				
	Land	Buildings and structures	Machinery and equipment	Other	Total
Balance as of January 1	438,095	2,361,717	130,965	381,142	3,311,919
Acquisition	116,683	593,157	42,447	58,536	810,823
Depreciation	(64,078)	(715,950)	(56,618)	(97,886)	(934,532)
Disposals/scrap	(8,968)	(160,267)	(6,526)	(24,720)	(200,481)
Reclassification to assets held-for-sale	(29,275)	-	(9)	(131)	(29,415)
Other ¹	(10,854)	26,703	(887)	(3,403)	11,559
Balance as of December 31	441,603	2,105,360	109,372	313,538	2,969,873

¹ Other includes effects of changes in foreign currency exchange rates.

<i>(In millions of Korean won)</i>	2019				
	Land	Buildings and structures	Machinery and equipment	Other	Total
Balance as of January 1 ¹	-	37,185	444	6,984	44,613
Acquisition	80,675	906,417	9,456	128,680	1,125,228
Depreciation	(31,118)	(593,725)	(59,756)	(101,182)	(785,781)
Disposals/scrap	(11,137)	(67,468)	(459)	(10,593)	(89,657)
Other ²	399,675	2,079,308	181,280	357,253	3,017,516
Balance as of December 31	438,095	2,361,717	130,965	381,142	3,311,919

¹ The beginning balance is the financial lease assets recognized in accordance with previous accounting standard, Korean IFRS 1017 *Lease*

² Other includes the cumulative effect of changes in accounting policies and effects of changes in foreign currency exchange rates.

(C) Details of depreciation of property, plant and equipment for the years ended December 31, 2020 and 2019 are as follows:

<i>(In millions of Korean won)</i>	2020	2019
Cost of sales	23,824,208	23,606,255
Selling and administrative expenses, and etc.	3,291,527	2,967,561
Total	27,115,735	26,573,816

Samsung Electronics Co., Ltd. and its subsidiaries

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

11. Intangible Assets

(A) Changes in intangible assets for the years ended December 31, 2020 and 2019 are as follows:

<i>(In millions of Korean won)</i>	2020					
	Intellectual property rights	Development cost	Membership	Goodwill	Other	Total
Balance as of January 1	4,365,510	740,774	222,499	6,250,439	9,124,282	20,703,504
External acquisitions	300,399	-	1,785	-	1,356,267	1,658,451
Internally generated/developed	-	109,482	-	-	-	109,482
Amortization	(297,465)	(455,990)	-	-	(2,466,426)	(3,219,881)
Disposals/scrap	(30,055)	-	(343)	-	(912)	(31,310)
Impairment (reversal)	(189,155)	(3,474)	7,091	(570,817)	(161,739)	(918,094)
Reclassification to assets held-for-sale	-	-	(313)	-	(1,108)	(1,421)
Other ¹	(115,330)	(19,401)	(732)	(5,980)	309,214	167,771
Balance as of December 31	4,033,904	371,391	229,987	5,673,642	8,159,578	18,468,502

¹ Other includes the cumulative effect of changes in foreign currency exchange rates and others.

<i>(In millions of Korean won)</i>	2019					
	Intellectual property rights	Development cost	Membership	Goodwill	Other	Total
Balance as of January 1	4,187,756	704,734	221,628	5,833,678	3,943,802	14,891,598
External acquisitions	289,905	-	1,936	-	1,275,458	1,567,299
Internally generated/developed	-	285,699	-	-	-	285,699
Acquisition through business combinations	130,308	51,872	-	337,926	107,384	627,490
Amortization	(305,056)	(279,709)	-	-	(2,439,057)	(3,023,822)
Disposals/scrap	(58,480)	-	(1,240)	-	(5,682)	(65,402)
Impairment (reversal)	-	-	(972)	(46,834)	(895)	(48,701)
Other ¹	121,077	(21,822)	1,147	125,669	6,243,272	6,469,343
Balance as of December 31	4,365,510	740,774	222,499	6,250,439	9,124,282	20,703,504

¹ Other includes effects of reclassification of licenses and changes in foreign currency exchange rates.

Samsung Electronics Co., Ltd. and its subsidiaries

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

(B) Goodwill

Goodwill is allocated to each cash-generating unit. Details of goodwill as of December 31, 2020 and 2019 are as follows:

<i>(In millions of Korean won)</i>	December 31, 2020	December 31, 2019
CE segment	524,383	520,814
IM segment	657,146	674,327
DS segment		
Semiconductor	153,520	366,963
DP	138,754	133,540
Harman segment	4,199,334	4,545,802
Other	505	8,993
Total	5,673,642	6,250,439

Goodwill impairment reviews are performed annually, and the recoverable amounts of cash-generating units have been determined based on value-in-use calculations, etc. These calculations generally use pre-tax cash flow projections based on financial budgets approved by management covering a five-year period, unless it is reasonable to use long-term financial budgets longer than five years in new technology business. Perpetual cash flows beyond the five-year period are extrapolated using a constant growth rate assumption. The growth rate applied was capped at the long-term average growth rate for the industry.

As a result of an annual impairment test on goodwill allocated to cash-generating-units, the Company recognized an impairment loss of ₩ 206,741 million for the goodwill of PLP business, a cash-generating unit of DS segment's semiconductor business. The Company also recognized impairment loss of ₩ 364,076 million and ₩ 321,559 million for goodwill and other intangible assets allocated to Connected Car and Professional solution cash-generating-units of Harman segment, respectively. Principal assumptions used in the value-in-use calculations are as follows:

<i>(In percent)</i>	DS(Semiconductor)	Harman International
Permanent growth rate	0.0	3.0
Pre-tax discount rate ¹	11.5	10.0

¹ Pre-tax discount rate is applied in estimated cash flows.

(C) Details of amortization of intangible assets for the years ended December 31, 2020 and 2019 are as follows:

<i>(In millions of Korean won)</i>	2020	2019
Cost of sales	2,387,508	2,213,091
Selling and administrative expenses and other	832,373	810,731
Total	3,219,881	3,023,822

Samsung Electronics Co., Ltd. and its subsidiaries

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

12. Borrowings

Details of the carrying amounts of borrowings as of December 31, 2020 and 2019 are as follows:

<i>(In millions of Korean won)</i>	Financial institutions	Interest rates (%) as of Dec 31, 2020	December 31, 2020	December 31, 2019
Short-term borrowings				
Collateralized borrowings ¹	Woori Bank and others	0.0~18.3	14,275,043	11,734,361
Non-collateralized borrowings	Citibank and others	0.0~16.3	2,278,386	2,659,107
Total			16,553,429	14,393,468
Current portion of long-term borrowings				
Bank borrowings	-	-	-	35,376
Lease liabilities ²	CSSD and others	3.8	710,781	805,068
Total			710,781	840,444
Long-term borrowings				
Lease liabilities ²	CSSD and others	3.8	1,999,716	2,197,181

¹ Collateralized borrowings are secured by trade receivables.

² Interest expenses arising from the lease liabilities for the years ended December 31, 2020 and 2019 amounted to ₩ 109,040 million and ₩ 103,240 million, respectively, which were determined using the weighted average incremental borrowing rate. The right-of-use assets are pledged as collateral to the lessor in the event of default. Short-term lease payments and low-valued asset lease payments that are not included in measurement of lease liabilities during the years ended December 31, 2020 and 2019 amount to ₩ 120,151 million and ₩ 233,467 million, respectively.

(A) Maturities of lease liabilities outstanding as of December 31, 2020 are as follows:

<i>(In millions of Korean won)</i>	Lease liabilities
Repayment terms	
2021	784,692
2022	558,170
2023	451,203
2024	354,367
2025 and thereafter	795,281
Total	2,943,713

Samsung Electronics Co., Ltd. and its subsidiaries

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

13. Debentures

(A) Details of the carrying amounts of debentures as of December 31, 2020 and 2019 are as follows:

<i>(In millions of Korean won)</i>	Issue date	Due date	Interest rates (%) as of Dec 31, 2020	December 31, 2020	December 31, 2019
US dollar denominated straight bonds ¹	1997.10.2	2027.10.1	7.7	38,080 (USD 35 million)	46,312 (USD 40 million)
US dollar denominated debenture bonds ²	2015.5.11	2025.5.15	4.2	435,200 (USD 400 million)	463,120 (USD 400 million)
EURO denominated debenture bonds ³	2015.5.27	2022.5.27	2.0	468,383 (EUR 350 million)	454,100 (EUR 350 million)
Less: Discounts				(853)	(1,146)
Add: Premium				12,645	18,558
Less: Current portion				(5,318)	(5,646)
Total				948,137	975,298

¹ US dollar denominated straight bonds are repaid annually for twenty years after a ten-year grace period from the date of issuance. Interest is paid semi-annually.

² Harman International Industries, Inc. issued US dollar denominated debenture bonds. These debentures are repaid on the date of 10 years maturity and interest is paid semi-annually.

³ Harman Finance International, SCA issued Euro denominated debenture bonds. These debentures are repaid on the date of 7 years maturity and interest is paid annually.

(B) Maturities of debentures outstanding as of December 31, 2020 are as follows:

<i>(In millions of Korean won)</i>	Debentures
Repayment terms	
2021	5,440
2022	473,823
2023	5,440
2024	5,440
2025 and thereafter	451,520
Total	941,663

Samsung Electronics Co., Ltd. and its subsidiaries

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

14. Net Defined Benefit Liabilities (Assets)

- (A) Details of net defined benefit liabilities (assets) recognized in the statements of financial position as of December 31, 2020 and 2019 are as follows:

<i>(In millions of Korean won)</i>	December 31, 2020	December 31, 2019
Present value of funded defined benefit obligations	12,400,964	10,864,675
Present value of unfunded defined benefit obligations	548,035	283,394
Subtotal	12,948,999	11,148,069
Fair value of plan assets	(13,840,043)	(11,267,121)
Total	(891,044)	(119,052)

- (B) The components of defined benefit costs recognized in profit or loss for the years ended December 31, 2020 and 2019 relating to defined benefit plans are as follows:

<i>(In millions of Korean won)</i>	2020	2019
Current service cost	1,131,355	930,471
Net interest income	(9,801)	(3,755)
Past service cost	2,377	2,275
Other	2,193	7,629
Total	1,126,124	936,620

The amount recognized as expense of defined contribution plans for the years ended December 31, 2020 and 2019 are ₩ 164,055 million and ₩ 198,387 million, respectively.

- (C) The expenses related to defined benefit plans recognized in the statements of profit or loss for the years ended December 31, 2020 and 2019 are as follows:

<i>(In millions of Korean won)</i>	2020	2019
Cost of sales	498,006	417,393
Selling and administrative expenses and other	628,118	519,227
Total	1,126,124	936,620

Samsung Electronics Co., Ltd. and its subsidiaries

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

(D) Changes in the defined benefit obligations for the years ended December 31, 2020 and 2019 are as follows:

<i>(In millions of Korean won)</i>	2020	2019
Balance as of January 1	11,148,069	8,694,042
Current service cost	1,131,355	930,471
Interest cost	328,919	283,065
Past service cost	2,377	2,275
Remeasurement:		
Actuarial gains or losses arising from changes in demographic assumptions	(19,030)	(7,041)
Actuarial gains or losses arising from changes in financial assumptions	622,647	1,190,499
Other	285,440	326,369
Benefits paid	(514,853)	(308,182)
Other ¹	(35,925)	36,571
Balance as of December 31	12,948,999	11,148,069

¹ Other includes effects of changes in foreign currency exchange rates and business combinations.

(E) Changes in the fair value of plan assets for the years ended December 31, 2020 and 2019 are as follows:

<i>(In millions of Korean won)</i>	2020	2019
Balance as of January 1	11,267,121	8,752,334
Interest income on plan assets	338,720	286,820
Remeasurement of plan assets	(108,066)	(118,110)
Contributions by employer	2,623,122	2,600,576
Benefits paid	(295,520)	(283,778)
Other ¹	14,666	29,279
Balance as of December 31	13,840,043	11,267,121

¹ Other includes effects of changes in foreign currency exchange rates and business combinations.

Expected contributions to post-employment benefit plans for the year ended December 31, 2021 are ₩ 1,399,843 million.

(F) Plan assets as of December 31, 2020 and 2019 consist of the following:

<i>(In millions of Korean won)</i>	December 31, 2020	December 31, 2019
Principal guaranteed fixed income financial instruments and other	13,799,119	11,230,391
Other	40,924	36,730
Total	13,840,043	11,267,121

Plan assets are mostly invested in instruments which have a quoted price in active markets.

Samsung Electronics Co., Ltd. and its subsidiaries

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

(G) The principal actuarial assumptions as of December 31, 2020 and 2019 are as follows:

<i>(In percentage)</i>	December 31, 2020	December 31, 2019
Discount rate	0.2~7.2	0.2 ~ 7.2
Salary growth rate (including the effects of inflation)	1.5~10.0	1.5 ~ 10.0

(H) The sensitivity analysis of the defined benefit obligations as of December 31, 2020 and 2019 to changes in the weighted principal assumptions is as follows:

<i>(In percentage)</i>	December 31, 2020	December 31, 2019
Discount rate		
1%p increase	91	92
1%p decrease	111	110
Salary growth rate		
1%p increase	111	110
1%p decrease	91	92

(I) The weighted average maturity of the defined benefit obligations is 9.82 years as of December 31, 2020.

Samsung Electronics Co., Ltd. and its subsidiaries

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

15. Provisions

Changes in the provisions for the year ended December 31, 2020 are as follows:

<i>(In millions of Korean won)</i>	Warranty (A)	Royalty expenses (B)	Long-term incentives (C)	Other (D, E)	Total
Balance as of January 1	1,791,007	1,053,448	793,270	1,042,002	4,679,727
Charged to profit or loss	1,466,541	697,449	443,380	1,656,202	4,263,572
Payment	(1,452,453)	(357,148)	(588,119)	(921,435)	(3,319,155)
Other ¹	(39,213)	(89,658)	2,767	(97,049)	(223,153)
Balance as of December 31	1,765,882	1,304,091	651,298	1,679,720	5,400,991

¹ Other includes effects of changes in foreign currency exchange rates.

- (A) The Company accrues warranty reserves for estimated costs of quality assurance, exchanges, repairs, recalls, and future services based on historical experience and terms of warranty programs.
- (B) The Company recognizes provisions for the estimated royalty expenses that are under negotiation with counterparties. The timing and amount of payment depend on the settlement of the negotiation.
- (C) The Company has a long-term incentive plan for its executives based on a three-year management performance criteria and recognizes a provision for the estimated incentive cost for the accrued period.
- (D) The Company records provisions for future expenses expected to be incurred for products that have been discontinued from manufacturing and sales.
- (E) The Company makes provisions for the carrying amounts of emission rights held by the Company and the emission in excess of the emission rights for the applicable years. Details of emission rights and liabilities as of December 31, 2020 are as follows:

- (1) Allocated amount of emission permits and the estimated amount of emission as of December 31, 2020 are as follows:

<i>(In ten thousand metric tons)</i>	December 31, 2020
Allocated emission permits	1,733
Estimated volume of emission	1,789

- (2) Changes in the emission permits rights for the year ended December 31, 2020 are as follows:

<i>(In millions of Korean won)</i>	2020
Balance as of January 1	38,787
Increase	6,236
Decrease	(158)
Balance as of December 31	44,865

- (3) Changes in emissions liabilities for the year ended December 31, 2020 are as follows:

<i>(In millions of Korean won)</i>	2020
Balance as of January 1	18,414
Charged to profit or loss	13,640
Submission	(178)
Balance as of December 31	31,876

Samsung Electronics Co., Ltd. and its subsidiaries

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

16. Commitments and Contingencies

(A) Litigation

The Company is involved in various claims, disputes, and investigations conducted by regulatory bodies, which arose during the normal course of business with numerous entities. Although the outflow of resources and timing of these matters are uncertain, as of the reporting date, the Company believes the outcome will not have a material impact on the financial position of the Company.

(B) Other commitments

- (1) As of December 31, 2020, the Company has trade financing agreements, trade notes receivable discounting facilities, and loan facilities with accounts receivable pledged as collateral with 25 financial institutions including Woori Bank, with a combined limit of up to ₩ 19,807,809 million. In addition, the Company has a trade financing agreement (up to ₩ 13,748,448 million) with 19 financial institutions including Shinhan Bank and loan facilities with accounts receivable pledged as collateral and other financial agreements (up to ₩ 2,079,508 million).
- (2) As of December 31, 2020, unfulfilled agreements relating to the acquisition of property, plant and equipment and intangible assets amount to ₩ 7,439,344 million.

17. Contract Liabilities

The Company has recognized contract liabilities related to contracts with customers as follows:

<i>(In millions of Korean won)</i>	December 31, 2020	December 31, 2019
Contract liabilities ¹	11,902,130	9,240,401

¹ Contract liabilities include advances received, accrued expenses, other current liabilities and others.

The revenue recognized during the year ended December 31, 2020 in relation to carried-forward contract liabilities as of January 1, 2020 amounts to ₩ 590,174 million.

18. Share Capital

As of December 31, 2020, the Company's total number of authorized shares is 25,000,000,000 shares (₩ 100 per share). The Company has issued 5,969,782,550 shares of ordinary shares and 822,886,700 shares of preference shares as of December 31, 2020, excluding retired shares. As of the December 31, 2020, the number of shares outstanding is the same as the number of shares issued above, and no changes were made to the number of shares outstanding during the years ended December 31, 2020 and 2019. Due to the retirement of shares, the total par value of the shares issued is ₩ 679,267 million (ordinary shares of ₩ 596,978 million and preference shares of ₩ 82,289 million), which does not agree with paid-in capital of ₩ 897,514 million.

Samsung Electronics Co., Ltd. and its subsidiaries

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

19. Retained Earnings

(A) Retained earnings as of December 31, 2020 and 2019 consist of the following:

<i>(In millions of Korean won)</i>	December 31, 2020	December 31, 2019
Discretionary reserve, etc.	174,739,565	168,322,868
Unappropriated retained earnings	96,328,646	86,260,026
Total	271,068,211	254,582,894

(B) Details of interim and year-end dividends are as follows:

(1) Interim dividends (Record date: March 31, 2020 and 2019, June 30, 2020 and 2019 and September 30, 2020 and 2019)

<i>(In millions of Korean won and number of shares)</i>		2020	2019
1 st Quarter	Number of shares eligible for dividends	Ordinary shares	5,969,782,550
		Preference shares	822,886,700
	Dividend rate (based on par value)		354%
	Dividend amount	Ordinary shares	2,113,303
Preference shares		291,302	
		Total	2,404,605
2 nd Quarter	Number of shares eligible for dividends	Ordinary shares	5,969,782,550
		Preference shares	822,886,700
	Dividend rate (based on par value)		354%
	Dividend amount	Ordinary shares	2,113,303
Preference shares		291,302	
		Total	2,404,605
3 rd Quarter	Number of shares eligible for dividends	Ordinary shares	5,969,782,550
		Preference shares	822,886,700
	Dividend rate (based on par value)		354%
	Dividend amount	Ordinary shares	2,113,303
Preference shares		291,302	
		Total	2,404,605

(2) Year-end dividends (Record date: December 31, 2020 and 2019)

<i>(In millions of Korean won and number of shares)</i>		2020	2019
Number of shares eligible for dividends	Ordinary shares	5,969,782,550	
	Preference shares	822,886,700	
Dividend rate (based on par value)	Ordinary shares	1932%	
	Preference shares	1933%	
Dividend amount	Ordinary shares	11,533,620	
	Preference shares	1,590,640	
		Total	13,124,260

Samsung Electronics Co., Ltd. and its subsidiaries

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

20. Other Components of Equity

Other components of equity as of December 31, 2020 and 2019 are as follows:

<i>(In millions of Korean won)</i>	December 31, 2020	December 31, 2019
Gain on valuation of financial assets at fair value through other comprehensive income	4,975,756	2,573,530
Share of other comprehensive loss of associates and joint ventures	(58,629)	(12,735)
Loss on overseas business translation	(10,977,583)	(5,645,769)
Remeasurement of net defined benefit assets	(2,653,425)	(1,944,284)
Other	26,726	60,429
Total	(8,687,155)	(4,968,829)

21. Expenses by Nature

Expenses by nature for the years ended December 31, 2020 and 2019 consist of the following:

<i>(In millions of Korean won)</i>	2020	2019
Changes in finished goods, work in process, and other	(3,234,887)	1,900,859
Raw materials used, merchandise purchased, and other	81,792,130	83,443,554
Wages and salaries	25,054,684	22,453,030
Post-employment benefit	1,290,179	1,171,606
Depreciation	27,115,735	26,573,816
Amortization	3,219,881	3,023,822
Welfare	4,655,347	4,489,617
Utilities	4,717,553	4,451,765
Outsourcing	5,409,889	5,181,792
Advertising	4,269,043	4,614,525
Sales promotion expenses	5,861,954	6,678,078
Other	40,661,604	38,649,908
Total¹	200,813,112	202,632,372

¹ Equal to the sum of cost of sales and selling and administrative expenses in the consolidated statements of profit or loss.

Samsung Electronics Co., Ltd. and its subsidiaries

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

22. Selling and Administrative Expenses

Selling and administrative expenses for the years ended December 31, 2020 and 2019 are as follows:

<i>(In millions of Korean won)</i>	2020	2019
Selling and administrative expenses		
Wages and salaries	6,763,143	6,123,653
Post-employment benefit	279,711	298,937
Commissions	5,678,703	5,513,083
Depreciation	1,593,365	1,571,473
Amortization	492,314	469,344
Advertising	4,269,043	4,614,525
Sales promotion expenses	5,861,954	6,678,078
Transportation	2,218,422	2,075,675
Service charges	3,368,401	2,968,421
Other	4,688,270	5,172,398
Subtotal	35,213,326	35,485,587
Research and development expenses		
Total expenses	21,220,972	20,192,935
Capitalized expenses	(109,482)	(285,699)
Subtotal	21,111,490	19,907,236
Total	56,324,816	55,392,823

23. Other Non-Operating Income and Expenses

Details of other non-operating income and expenses for the years ended December 31, 2020 and 2019 are as follows:

<i>(In millions of Korean won)</i>	2020	2019
Other non-operating income		
Dividend income	152,440	154,679
Rental income	147,104	153,357
Gain on disposal of investments	42,675	48,345
Gain on disposal of property, plant and equipment	154,249	304,091
Other	887,600	1,118,194
Total	1,384,068	1,778,666

<i>(In millions of Korean won)</i>	2020	2019
Other non-operating expenses		
Loss on disposal of property, plant and equipment	87,673	144,547
Donations	311,421	357,747
Other	2,089,808	912,413
Total	2,488,902	1,414,707

Samsung Electronics Co., Ltd. and its subsidiaries

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

24. Financial Income and Expenses

Details of financial income and expenses for the years ended December 31, 2020 and 2019 are as follows:

<i>(In millions of Korean won)</i>	2020	2019
Financial income		
Interest income	1,974,458	2,660,024
Interest income from financial assets measured at amortized cost	1,974,141	2,659,740
Interest income from financial assets measured at fair value through profit or loss	317	284
Foreign exchange differences	9,270,039	6,769,000
Gains from derivatives	1,023,103	732,608
Total	12,267,600	10,161,632

<i>(In millions of Korean won)</i>	2020	2019
Financial expenses		
Interest expenses	583,013	686,356
Interest expenses from financial liabilities measured at amortized cost	302,782	248,659
Other financial liabilities	280,231	437,697
Foreign exchange differences	9,868,591	6,852,409
Losses from derivatives	866,451	736,106
Total	11,318,055	8,274,871

The Company recognizes foreign exchange gains and losses arising from foreign currency transactions and translation as financial income and expenses.

Samsung Electronics Co., Ltd. and its subsidiaries

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

25. Income Tax Expense

(A) Income tax expense for the years ended December 31, 2020 and 2019 consists of the following:

<i>(In millions of Korean won)</i>	2020	2019
Current taxes		
Current tax on profits for the year	7,361,115	5,913,635
Adjustments recognize in the current year	339,673	(177,616)
Subtotal	7,700,788	5,736,019
Deferred taxes		
Changes in deferred taxes arising from unused tax credits	(325,880)	(26,114)
Changes in deferred taxes arising from temporary differences	2,312,926	2,934,705
Changes in deferred taxes arising from unused tax losses	264,349	47,616
Other	(14,898)	1,098
Subtotal	2,236,497	2,957,305
Items charged directly to equity	-	-
Income tax expense	9,937,285	8,693,324

(B) The tax on the Company's profit before income tax differs from the theoretical amount that would arise using the weighted average statutory tax rate applicable to profits of the Company as follows:

<i>(In millions of Korean won)</i>	2020	2019
Profit before income tax	36,345,117	30,432,189
Tax calculated at weighted average of applicable tax rates¹	8,972,156	8,996,445
Adjustments:		
Permanent differences	(269,002)	86,509
Temporary differences for which no deferred income tax was recognized	(130,892)	393,620
Tax credits and exemptions	(1,902,680)	(3,195,793)
Results of interest in subsidiaries, etc.	2,774,410	2,272,967
Impact of changes in tax rates	(5,019)	28,951
Other	498,312	110,625
Subtotal	965,129	(303,121)
Income tax expense	9,937,285	8,693,324

¹ The weighted average of statutory tax rates are applied to the respective profits of the Company applicable to each tax authority as of December 31, 2020 and 2019.

Samsung Electronics Co., Ltd. and its subsidiaries

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

(C) The movement in deferred income tax assets and liabilities resulting from the tax effect of temporary differences for the years ended December 31, 2020 and 2019 are as follows:

(1) 2020

<i>(In millions of Korean won)</i>	Temporary differences			Deferred income tax assets (liabilities)		
	Balance as of January 1	Increase (Decrease)	Balance as of December 31	Balance as of January 1	Increase (Decrease)	Balance as of December 31
Deferred tax arising from temporary differences						
Revaluation of land	(3,417,804)	(3,082)	(3,420,886)	(939,896)	(848)	(940,744)
Investments in subsidiaries, associates and joint ventures ¹	(96,397,199)	(15,527,660)	(111,924,859)	(16,669,138)	(2,503,271)	(19,172,409)
Accumulated depreciation and other	(4,529,334)	2,243,493	(2,285,841)	(982,556)	(10,221)	(992,777)
Accrued income	(248,662)	109,256	(139,406)	(61,332)	29,846	(31,486)
Provisions, accrued expenses and other	12,251,647	869,769	13,121,416	3,282,747	482,061	3,764,808
Foreign currency translation	(97,929)	73,246	(24,683)	(30,227)	20,150	(10,077)
Asset impairment losses	1,790,729	65,036	1,855,765	492,332	(38,846)	453,486
Other	2,252,684	(1,690,056)	562,628	270,071	(291,797)	(21,726)
Subtotal	(88,395,868)	(13,859,998)	(102,255,866)	(14,637,999)	(2,312,926)	(16,950,925)
Deferred tax arising from tax losses						
Unused tax losses	4,563,095	(944,494)	3,618,601	1,208,143	(264,349)	943,794
Deferred tax arising from tax credits						
Unused tax credits	1,311,498	17,029	1,328,527	1,007,507	325,880	1,333,387
Deferred tax recognized in equity						
Gain (loss) on valuation of financial assets at fair value through other comprehensive income and other	(2,928,550)	1,268,129	(1,660,421)	(895,922)	(13,254)	(909,176)
Remeasurement of net defined benefit assets	2,738,197	997,123	3,735,320	769,512	277,563	1,047,075
Subtotal	(190,353)	2,265,252	2,074,899	(126,410)	264,309	137,899
Deferred tax assets				4,505,049	(230,049)	4,275,000
Deferred tax liabilities				(17,053,808)	(1,757,037)	(18,810,845)
Total				(12,548,759)	(1,987,086)	(14,535,845)

¹ Deferred tax assets were not recognized if it is probable that the temporary differences will not reverse in the foreseeable future for investments in subsidiaries, associates and joint ventures.

Samsung Electronics Co., Ltd. and its subsidiaries

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

(2) 2019

<i>(In millions of Korean won)</i>	Temporary differences			Deferred income tax assets (liabilities)		
	Balance as of January 1	Increase (Decrease)	Balance as of December 31	Balance as of January 1	Increase (Decrease)	Balance as of December 31
Deferred tax arising from temporary differences						
Revaluation of land	(3,422,280)	4,476	(3,417,804)	(941,127)	1,231	(939,896)
Investments in subsidiaries, associates and joint ventures ¹	(85,091,134)	(11,306,065)	(96,397,199)	(14,315,226)	(2,353,912)	(16,669,138)
Accumulated depreciation and other	(3,999,764)	(529,570)	(4,529,334)	(903,184)	(79,372)	(982,556)
Accrued income	(278,778)	30,116	(248,662)	(73,048)	11,716	(61,332)
Provisions, accrued expenses and other	11,733,192	518,455	12,251,647	3,239,039	43,708	3,282,747
Foreign currency translation	(81,476)	(16,453)	(97,929)	(22,158)	(8,069)	(30,227)
Asset impairment losses	1,528,707	262,022	1,790,729	421,608	70,724	492,332
Other	3,875,005	(1,622,321)	2,252,684	890,802	(620,731)	270,071
Subtotal	(75,736,528)	(12,659,340)	(88,395,868)	(11,703,294)	(2,934,705)	(14,637,999)
Deferred tax arising from tax losses						
Unused tax losses	4,692,966	(129,871)	4,563,095	1,255,759	(47,616)	1,208,143
Deferred tax arising from tax credits						
Unused tax credits	1,111,141	200,357	1,311,498	981,393	26,114	1,007,507
Deferred tax recognized in equity						
Loss on valuation of financial assets at fair value through other comprehensive income and other	(2,165,131)	(763,419)	(2,928,550)	(550,422)	(345,500)	(895,922)
Remeasurement of net defined benefit assets	1,110,260	1,627,937	2,738,197	322,043	447,469	769,512
Subtotal	(1,054,871)	864,518	(190,353)	(228,379)	101,969	(126,410)
Deferred tax assets				5,468,002	(962,953)	4,505,049
Deferred tax liabilities				(15,162,523)	(1,891,285)	(17,053,808)
Total				(9,694,521)	(2,854,238)	(12,548,759)

¹ Deferred tax assets were not recognized if it is probable that the temporary differences will not reverse in the foreseeable future for investments in subsidiaries, associates and joint ventures.

The Company assessed that the deferred tax asset is realizable as the estimated average annual taxable income in future years exceeds the tax loss carry forwards and tax credit carry forwards to be reversed in each accounting period. Temporary differences whose deferred tax effects were not recognized due to uncertainty regarding the ultimate realizability of such assets as of December 31, 2020 and 2019 are as follows:

<i>(In millions of Korean won)</i>	2020	2019
Unused tax losses	751,255	602,143
Unused tax credits	37,816	281,152

Expected expiry dates of unused tax losses and credits for which no deferred tax asset is recognized are as follows:

<i>(In millions of Korean won)</i>	2020	2021	2022	2023 and after
Unused tax losses	-	1,137	-	750,118
Unused tax credits	12,837	3,009	15,021	6,949

Samsung Electronics Co., Ltd. and its subsidiaries

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

(D) Details of the period when the deferred tax assets (liabilities) are recovered (settled) as of December 31, 2020 and 2019 are as follows:

<i>(In millions of Korean won)</i>	December 31, 2020	December 31, 2019
Deferred tax assets		
Deferred tax assets to be recovered within 12 months	2,839,030	3,125,687
Deferred tax assets to be recovered after more than 12 months	1,435,970	1,379,362
Subtotal	4,275,000	4,505,049
Deferred tax liabilities		
Deferred tax liabilities to be settled after more than 12 months	(18,810,845)	(17,053,808)
Total	(14,535,845)	(12,548,759)

26. Earnings per Share

(A) Basic earnings per share

Basic earnings per share for the years ended December 31, 2020 and 2019 are calculated as follows:

(1) Ordinary shares

<i>(In millions of Korean won, thousands of number of shares)</i>	2020	2019
Profit for the year attributable to owners of the parent company	26,090,846	21,505,054
Profit for the year available for ordinary shares	22,929,390	18,899,137
Weighted-average number of ordinary shares outstanding	5,969,783	5,969,783
Basic earnings per ordinary share (in Korean won)	3,841	3,166

(2) Preference shares

<i>(In millions of Korean won, thousands of number of shares)</i>	2020	2019
Profit for the year attributable to owners of the parent company	26,090,846	21,505,054
Profit for the year available for preference shares	3,161,456	2,605,917
Weighted-average number of preference shares outstanding	822,887	822,887
Basic earnings per preference share (in Korean won)	3,842	3,167

(B) Diluted earnings per share

The Company does not have dilutive potential ordinary shares and as a result, basic earnings per share and diluted earnings per share are the same for the years ended December 31, 2020 and 2019.

Samsung Electronics Co., Ltd. and its subsidiaries

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

27. Statements of Cash Flows

(A) The Company used the indirect method to present cash flows from operating activities. Adjustments and changes in assets and liabilities arising from operating activities for the years ended December 31, 2020 and 2019 are as follows:

- Adjustments

<i>(In millions of Korean won)</i>	2020	2019
Adjustments:		
Income tax expense	9,937,285	8,693,324
Financial income	(3,718,841)	(3,831,428)
Financial expenses	2,306,770	2,034,518
Post-employment benefits	1,290,179	1,171,606
Depreciation	27,115,735	26,573,816
Amortization	3,219,881	3,023,822
Bad debt expenses (reversal)	40,006	(183,380)
Dividend income	(152,440)	(154,679)
Share of profit of associates and joint ventures	(506,530)	(412,960)
Gain on disposal of property, plant and equipment	(154,249)	(304,091)
Loss on disposal of property, plant and equipment	87,673	144,547
Loss on valuation of inventories	1,000,763	785,215
Gain on disposal of investments	(42,675)	(48,345)
Others	1,194,997	(49,283)
Total	41,618,554	37,442,682

- Changes in assets and liabilities arising from operating activities

<i>(In millions of Korean won)</i>	2020	2019
Changes in assets and liabilities :		
Decrease in trade receivables	1,269,982	2,587,519
Decrease (increase) in non-trade receivables	471,034	(758,928)
Increase in prepaid expenses	(16,429)	(65,086)
Decrease (increase) in inventories	(7,540,656)	2,134,632
Increase (decrease) in trade payables	3,885,742	(1,269,177)
Increase (decrease) in other payables	196,710	(35,869)
Increase in advances received	95,851	440,597
Increase (decrease) in withholdings	99,300	(165,535)
Increase (decrease) in accrued expenses	5,332,676	(1,707,265)
Increase (decrease) in provisions	944,417	(198,829)
Payment of post-employment benefits	(610,734)	(543,864)
Increase in plan assets	(2,327,602)	(2,316,798)
Other	(1,677,867)	(647,153)
Total	122,424	(2,545,756)

Samsung Electronics Co., Ltd. and its subsidiaries

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

(B) Significant non-cash investing and financing transactions for the years ended December 31, 2020 and 2019 are as follows:

<i>(In millions of Korean won)</i>	2020	2019
Valuation of financial assets at fair value through other comprehensive income	3,423,908	1,497,600
Valuation of investments in associates and joint ventures	43,297	32,397
Reclassification of construction in progress to property, plant and equipment	42,177,828	12,172,344
Acquisition of right-of-use assets (New lease contracts established)	810,823	1,125,228
Reclassification of current portion of debentures	5,318	5,646
Reclassification of current portion of long-term borrowings	710,781	771,405

(C) Changes in liabilities arising from financing activities for the years ended December 31, 2020 and 2019 are as follows:

(1) 2020

<i>(In millions of Korean won)</i>	As of January 1	Cash flows from financing activities	Non-cash transactions		As of December 31
			New lease contracts	Other¹	
Short-term borrowings	14,393,468	2,191,186	-	(31,225)	16,553,429
Debentures and long-term borrowings	4,018,569	(850,452)	810,823	(314,988)	3,663,952
Total	18,412,037	1,340,734	810,823	(346,213)	20,217,381

¹ Other includes amortization and effects of changes in foreign currency exchange rates.

(2) 2019

<i>(In millions of Korean won)</i>	As of January 1	Cash flows from financing activities	Non-cash transactions		As of December 31
			New lease contracts	Other¹	
Short-term borrowings	13,586,660	865,792	-	(58,984)	14,393,468
Debentures and long-term borrowings	1,080,443	(709,400)	1,125,228	2,522,298	4,018,569
Total	14,667,103	156,392	1,125,228	2,463,314	18,412,037

¹ Other includes amortization, effects of changes in foreign currency exchange rates, and the cumulative effect of changes in accounting policies.

For the years ended December 31, 2020 and 2019, cash outflows from principal repayment (financial activities) amount to ₩ 823,935 million and ₩ 684,318 million, respectively, and cash outflows due to interest expenses (operating activities) in relation to the lease liabilities amount to ₩ 109,040 million and ₩ 103,240 million, respectively.

(D) The Company reported cash receipts and payments arising from transactions occurring frequently, of large gross amounts, and with short-term maturities, such as short-term financial instruments, borrowings and other, on a net basis. As of December 31, 2020, most of the Company's cash and cash equivalents consist of bank deposits.

Samsung Electronics Co., Ltd. and its subsidiaries

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

28. Financial Risk Management

The Company's financial risk management focuses on minimizing market risk, credit risk, and liquidity risk arising from operating activities. To mitigate these risks, the Company implements and operates a financial risk policy and program that closely monitors and manages such risks. In addition, the Company uses derivatives to hedge certain risk exposure.

The finance team mainly carries out the Company's financial risk management. After implementing the global financial risk management policies, the finance team periodically measures, evaluates, and hedges financial risk and also establishes and implements the global financial risk management policy.

The Company also manages foreign exchange risk by monitoring foreign exchange rate fluctuations at local finance centers across major regions (United States, United Kingdom, Singapore, China, Brazil, and Russia) and acting as an agent of foreign exchange transactions. In addition, the Company manages liquidity risk by utilizing a globally integrated finance structure.

The Company's financial assets that are under financial risk management are comprised of cash and cash equivalents, short-term financial instruments, financial assets at amortized cost, trade receivables and others. The Company's financial liabilities under financial risk management are comprised of trade payables, borrowings, and others.

(A) Market risk

(1) Foreign exchange risk

The Company is exposed to foreign exchange risk arising from its global operations performed in currencies other than its functional currency. The major currencies that are exposed to foreign exchange risk are the US dollar, Euro, and Indian Rupee.

The Company focuses on minimizing the impact of foreign exchange fluctuation by maintaining the equal amount of assets and liabilities denominated in each foreign currency, irrespective of foreign exchange fluctuation considerations. To prevent exchange position, the Company's foreign exchange management policy requires normal business transactions, including import and export, as well as financing transactions such as depositing and borrowing, to be in local currency or for the cash-in currency to be matched up with the cash-out currency. Moreover, the Company periodically evaluates and monitors the foreign exchange risk to efficiently mitigate such risk, and the speculative foreign exchange transactions are strictly prohibited.

As of December 31, 2020 and 2019, when currency rates change by 5%, the impact on profit or loss (before income tax effects) arising from financial assets and liabilities denominated in foreign currencies other than functional currency are as follows:

<i>(In millions of Korean won)</i>	December 31, 2020		December 31, 2019	
	Increase	Decrease	Increase	Decrease
USD	174,400	(174,400)	163,062	(163,062)
EUR	112,244	(112,244)	127,507	(127,507)
INR	21,959	(21,959)	64,153	(64,153)
JPY	(22,143)	22,143	(23,062)	23,062

Samsung Electronics Co., Ltd. and its subsidiaries

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

(2) Interest rate risk

Risk of changes in interest rates for floating interest rate financial instruments is defined as the risk that the fair value of components of the statements of financial position, and future cash flows of interest income (expenses) of a financial instrument, will fluctuate because of changes in market interest rates. The Company's position with regard to interest rate risk exposure is mainly driven by its floating interest rate debt obligations and interest-bearing deposits. The Company implemented policies and operates to minimize uncertainty arising from changes in interest rates and financial expenses.

As of December 31, 2020 and 2019, changes in profit or loss (before income tax effects) as a result of a 1%p change in interest rates on floating interest rate financial assets and liabilities are presented below:

<i>(In millions of Korean won)</i>	December 31, 2020		December 31, 2019	
	Increase	Decrease	Increase	Decrease
Financial assets	81,013	(81,013)	70,183	(70,183)
Financial liabilities	(2,195)	2,195	(2,118)	2,118
Net effect	78,818	(78,818)	68,065	(68,065)

(3) Price risk

The Company's investment portfolio consists of direct and indirect investments in equity instruments classified as financial assets at fair value through other comprehensive income and financial assets at fair value through profit or loss, which is in line with the Company's strategy.

As of December 31, 2020 and 2019, price fluctuation of marketable equity securities (listed stocks) by 1% would result in changes in other comprehensive income (before income tax) of ₩ 69,101 million and ₩ 41,055 million, respectively, and changes in profit before tax of ₩ 4,316 million and ₩ 1,630 million, respectively.

(B) Credit risk

Credit risk arises during the normal course of transactions and investing activities where clients or other parties fail to discharge an obligation. The Company monitors and sets the client's and counterparty's credit limit on a periodic basis based on the client's and counterparty's financial conditions, default history and other important factors. Adequate insurance coverage is maintained for trade receivables related to trading partners situated in higher risk countries.

Credit risk can arise from transactions with financial institutions which include financial instrument transactions such as cash and cash equivalents, deposits, and derivative instruments. To minimize such risk, the Company transacts only with banks which have a strong international credit rating (S&P A and above), and all new transactions with financial institutions with no prior transaction history are approved, managed and monitored by the Company's finance team and the local finance center. The Company generally enters into a financial agreement with no restrictions, such as debt ratio covenants, provision of collateral and/or repayment of loans/ borrowings. The Company requires separate approvals for contracts with restrictions.

As of December 31, 2020 and December 31, 2019, the Company estimates that its maximum exposure to credit risk is the carrying amount of its financial assets, net of impairment losses.

Samsung Electronics Co., Ltd. and its subsidiaries

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

(C) Liquidity risk

Due to large investments made by the Company, maintaining adequate levels of liquidity risk is critical. The Company strives to achieve this goal by periodically forecasting its capital balance, estimating required cash levels, and managing income and expenses.

The Company manages its liquidity risk by periodically forecasting projected cash flows. If abnormal signs are identified, the Company works with the local finance center and provides liquidity support by utilizing a globally integrated finance structure, such as Cash Pooling. In addition, the Company maintains a liquidity management process which provides additional financial support from the local finance center and the Company. The Cash Pooling program allows the sharing of surplus funds among entities and contributes to minimizing liquidity risk and strengthening the Company's competitive position by reducing capital operation expenses and financial expenses.

For the need of large scale of liquidity, the Company secures credit limit for the overseas subsidiaries through payment guarantees.

As of December 31, 2020 and 2019, the following table is an undiscounted cash flow analysis for financial liabilities according to their remaining contractual maturity.

<i>(In millions of Korean won)</i>	December 31, 2020				
	Less than 3 months	4 - 6 months	7 - 12 months	1 - 5 years	More than 5 years
Financial liabilities	44,988,792	733,776	1,651,951	3,945,429	578,346

<i>(In millions of Korean won)</i>	December 31, 2019				
	Less than 3 months	4 - 6 months	7 - 12 months	1 - 5 years	More than 5 years
Financial liabilities	41,041,672	655,089	1,603,676	4,241,964	1,381,109

The table above shows the Company's financial liabilities based on the remaining period at the consolidated statements of financial position date until the contractual maturity date. The amounts disclosed in the table are the contractual undiscounted cash flows.

The Company's derivative financial liabilities of ₩ 47,704 million (December 31, 2019: ₩ 63,496 million) has been included within the less than 3 months bucket. These are the Company's trading portfolio of derivative instruments, on a net settlement term, of which the contractual maturities are not essential for understanding its cash flows. These contracts are managed on a net fair value basis rather than by maturity date. Net settled derivatives consist of forwards on currency rates used by the Company to manage the exchange rate profile.

Derivatives that are settled on a gross basis by delivery of the underlying item, including derivatives for hedging, will be settled within the next 41 months from the end of the reporting period. These derivative are not included in the table above.

There is no maximum liquidity risk exposure from those other than the above financial liabilities (e.g., payment and performance guarantees) as of December 31, 2020.

Samsung Electronics Co., Ltd. and its subsidiaries

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

(D) Derivative financial instruments

The Company applies cash flow hedge accounting to hedge the foreign currency risk of forecasted transaction including hedging the price risk associated with inventory. Details of derivative financial instruments that qualify as cash flow hedges as of December 31, 2020 and 2019 are as follows:

<i>(In millions of Korean won)</i>	December 31, 2020		December 31, 2019	
	Assets	Liabilities	Assets	Liabilities
Currency forward exchange contracts				
Current items	11,311	22,236	20,946	5,396
Non-current items	11,999	19,694	5,498	5,144
Total	23,310	41,930	26,444	10,540

For the years ended December 31, 2020 and 2019, the Company recognizes the gains and losses relating to the effective portion of changes in fair value of derivatives that are designated and qualify as cash flow hedges in other comprehensive income, which amount to loss of ₩ 33,406 million (after tax) and gain of ₩ 1,811 million (after tax), respectively, and recognizes the gains and losses relating to the ineffective portion in profit or loss, which amount to loss of ₩ 27 million (before tax) and gain of ₩ 975 million (before tax). Gains and losses reclassified directly from other comprehensive income to profit or loss amount to gain of ₩ 4,664 million (after tax) and loss of ₩ 916 million (after tax), and gains reclassified from other comprehensive income to the carrying amount of inventory amount to ₩ 3,792 million (after tax) and ₩ 30,786 million (after tax).

(E) Capital risk management

The purpose of capital management is to maintain a sound capital structure. The Company monitors capital on the basis of credit ratings and debt ratio. Debt ratio is calculated by dividing total liabilities by total equity in the financial statements.

The Company's capital risk management policy has not changed since the prior reporting periods. The Company has maintained an AA- and Aa3 credit rating from S&P and Moody's, respectively.

The total liabilities to equity ratios as of December 31, 2020 and 2019 are as follows:

<i>(In millions of Korean won)</i>	December 31, 2020	December 31, 2019
Total liabilities	102,287,702	89,684,076
Total equity	275,948,016	262,880,421
Debt ratio	37.1%	34.1%

Samsung Electronics Co., Ltd. and its subsidiaries

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

(F) Fair value estimation

- (1) Carrying amounts and fair values of financial instruments by category as of December 31, 2020 and 2019 are as follows:

<i>(In millions of Korean won)</i>	December 31, 2020		December 31, 2019	
	Carrying amount	Fair value	Carrying amount	Fair value
Financial assets				
Cash and cash equivalents	29,382,578	(*)	26,885,999	(*)
Short-term financial instruments	92,441,703	(*)	76,252,052	(*)
Short-term financial assets at amortized cost	2,757,111	(*)	3,914,216	(*)
Short-term financial assets at fair value through profit or loss	71,451	71,451	1,727,436	1,727,436
Trade receivables	30,965,058	(*)	35,131,343	(*)
Financial assets at fair value through other comprehensive income	12,575,216	12,575,216	8,920,712	8,920,712
Financial assets at fair value through profit or loss	1,202,969	1,202,969	1,049,004	1,049,004
Other ^(*2)	6,634,873	239,107	9,864,541	208,126
Total financial assets	176,030,959		163,745,303	
Financial liabilities				
Trade payables	9,739,222	(*)	8,718,222	(*)
Short-term borrowings	16,553,429	(*)	14,393,468	(*)
Other payables	10,645,637	(*)	11,034,253	(*)
Current portion of long-term liabilities	716,099	(*)	846,090	(*)
Debentures	948,137	997,101	975,298	1,013,245
Long-term borrowings	1,999,716	(*)	2,197,181	(*)
Long-term other payables ^(*2)	1,274,304	2,176	1,822,927	2,316
Other ^(*2)	9,639,252	284,628	8,374,146	215,211
Total financial liabilities	51,515,796		48,361,585	

(*) Assets and liabilities whose carrying amount is a reasonable approximation of fair value are excluded from the fair value disclosures.

(*) Assets measured at the cost of ₩ 6,395,766 million (December 31, 2019: ₩ 9,656,415 million) and liabilities measured at the cost of ₩ 10,626,752 million (December 31, 2019: ₩ 9,979,546 million) are excluded as the carrying amount is a reasonable estimation of fair value.

(*) Lease liabilities, classified under the current portion of long-term liabilities and long-term borrowings, are excluded from the fair value disclosures in accordance with *Korean IFRS 1107*.

Samsung Electronics Co., Ltd. and its subsidiaries

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

- (2) Fair value hierarchy classifications of the financial instruments that are measured or disclosed at fair value as of December 31, 2020 and 2019 are as follows:

<i>(In millions of Korean won)</i>	December 31, 2020			
	Level 1	Level 2	Level 3	Total balance
1) Assets				
Financial assets at fair value through other comprehensive income	6,910,108	-	5,665,108	12,575,216
Financial assets at fair value through profit or loss	431,626	58,763	784,031	1,274,420
Other	-	239,107	-	239,107
2) Liabilities				
Debentures	-	997,101	-	997,101
Long-term other payables	-	-	2,176	2,176
Other	-	277,556	7,072	284,628

<i>(In millions of Korean won)</i>	December 31, 2019			
	Level 1	Level 2	Level 3	Total balance
1) Assets				
Financial assets at fair value through other comprehensive income	4,105,456	-	4,815,256	8,920,712
Financial assets at fair value through profit or loss	163,046	20,966	2,592,428	2,776,440
Other	-	208,126	-	208,126
2) Liabilities				
Debentures	-	1,013,245	-	1,013,245
Long-term other payables	-	-	2,316	2,316
Other	-	215,211	-	215,211

The levels of the fair value hierarchy and its application to financial assets and liabilities are described below.

- Level 1: Quoted prices (unadjusted) in active markets for identical assets or liabilities
- Level 2: Inputs other than quoted prices included within Level 1 that are observable for the asset or liability, either directly or indirectly
- Level 3: Inputs for the asset or liability that are not based on observable market data (that is, unobservable inputs)

The fair value of financial instruments traded in active markets is based on quoted market prices at the statements of financial position date. A market is regarded as active if quoted prices are readily and regularly available from an exchange, dealer, broker, industry group, pricing service, or regulatory agency, and those prices represent actual and regularly occurring market transactions on an arm's length basis. The quoted market price used for financial assets held by the Company is the current bid price. These instruments are included in Level 1. The instruments included in Level 1 are listed equity investments, most of which are classified as financial assets at fair value through other comprehensive income.

The fair value of financial instruments that are not traded in an active market (for example, over-the-counter derivatives) is determined by using valuation techniques. These valuation techniques maximize the use of observable market data where it is available and rely as little as possible on entity-specific estimates. If all significant inputs required to fair value an instrument are observable, the instrument is included in Level 2.

Samsung Electronics Co., Ltd. and its subsidiaries

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

If one or more of the significant inputs are not based on observable market data, the instrument is included in Level 3.

The Company performs the fair value measurements required for financial reporting purposes, including Level 3 fair values and discusses valuation processes and results at least once every quarter in line with the Company's quarterly reporting dates. The Company's policy is to recognize transfers between levels at the end of the reporting period, if corresponding events or changes in circumstances have occurred.

Specific valuation techniques used to value financial instruments include:

- Quoted market prices or dealer quotes for similar instruments
- The fair value of forward foreign exchange contracts is determined using forward exchange rates at the statements of financial position date, with the resulting value discounted back to present value

Other techniques, such as discounted cash flow analysis, are used to determine fair value for the remaining financial instruments. For trade and other receivables that are classified as current assets, the book value approximates a reasonable estimate of fair value.

(3) Valuation technique and the inputs

The Company utilizes a present value technique to discount future cash flows using a proper interest rate for corporate bonds, government and public bonds, and bank debentures that are classified as Level 2 in the fair value hierarchy.

The following table presents the valuation technique and the inputs used for major financial instruments classified as Level 3 as of December 31, 2020.

(In millions of Korean won and percentage)

Classification	Fair value	Valuation technique	Level 3 inputs	Input range (Weighted average)
Financial assets at fair value through other comprehensive income				
Maltani	9,121	Discounted cash flow	Permanent growth rate	-1.0%~1.0%(0.0%)
			Weighted average cost of capital	8.7%~10.7%(9.7%)
Samsung Venture Investment	22,060	Discounted cash flow	Permanent growth rate	-1.0%~1.0%(0.0%)
			Weighted average cost of capital	18.7%~20.7%(19.7%)
Corning Incorporated convertible preference shares	4,775,362	Trinomial model	Risk-adjusted discount rate	4.2%~6.2%(5.2%)
			Price volatility	30.5%~36.5%(33.5%)
Long-term other payables				
Contingent financial liability	2,176	Probability-weighted discounted cash flow	Applicable probability rate	50.0%

Samsung Electronics Co., Ltd. and its subsidiaries

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

(4) Changes in Level 3 instruments for the years ended December 31, 2020 and 2019 are as follows:

<i>(In millions of Korean won)</i>	2020	2019
Financial assets		
Balance as of January 1	7,407,684	7,165,466
Acquisitions	882,331	3,592,512
Disposals	(2,531,276)	(3,795,486)
Amount recognized in profit or loss	(55,103)	53,381
Amount recognized in other comprehensive income	829,764	302,616
Other	(84,261)	89,195
Balance as of December 31	6,449,139	7,407,684

<i>(In millions of Korean won)</i>	2020	2019
Financial liabilities		
Balance as of January 1	2,316	14,502
Repayment	-	(1,130)
Amount recognized in profit or loss	196	(11,655)
Other	6,736	599
Balance as of December 31	9,248	2,316

(5) Sensitivity analysis for recurring fair value measurements categorized within Level 3

Sensitivity analysis of financial instruments is performed to measure favorable and unfavorable changes in the fair value of financial instruments which are affected by the unobservable parameters, using a statistical technique. When the fair value is affected by more than two input parameters, the amounts represent the most favorable or unfavorable.

The results of the sensitivity analysis for effect on profit or loss (before tax amount for other comprehensive income or loss) from changes in inputs for major financial instruments which are categorized within Level 3 and subject to sensitivity analysis are as follows:

<i>(In millions of Korean won)</i>	Favorable changes		Unfavorable changes	
Classification	Profit or loss	Equity	Profit or loss	Equity
Financial assets at fair value through other comprehensive income ¹	-	181,764	-	(150,620)

¹ For equity securities, changes in fair value are calculated with the correlation between growth rate (-1%~1%), volatility (30.5%~36.5%) and discount rate, which are significant unobservable inputs.

Samsung Electronics Co., Ltd. and its subsidiaries

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

29. Segment Information

(A) Operating segment information

The chief operating decision-maker has been identified as the Management Committee. The Company determines operating segments based on the units reported to the Management Committee. The Management Committee reviews the operating profits of each operating segment in order to assess performance and to make strategic decisions regarding the allocation of resources to the segment.

Sales revenue consists mostly of product sales. The operating segments are product-based and are identified based on the internal organization and revenue streams. As of the reporting date, the operating segments are comprised of CE, IM, DS (Semiconductor and DP), Harman, and others.

The segment information for each reporting period is prepared after allocating intercompany reconciliations to depreciation, amortization of intangible assets and operating profits. Total assets and liabilities of each operating segment are excluded from the disclosure as these have not been provided regularly to the Management Committee.

(1) For the year ended December 31, 2020

<i>(In millions of Korean won)</i>	CE	IM	DS			Harman	Total ¹	Intercompany elimination	Consolidated
			Total ¹	Semiconductor	DP				
Total revenue	110,116,900	208,211,782	211,477,724	142,840,934	65,824,403	10,298,318	542,059,756	(305,252,768)	236,806,988
Intercompany revenue	(61,943,576)	(108,624,289)	(108,441,578)	(69,983,131)	(35,238,688)	(1,114,570)	(305,252,768)	305,252,768	-
Net revenue ²	48,173,324	99,587,493	103,036,146	72,857,803	30,585,715	9,183,748	236,806,988	-	236,806,988
Depreciation	582,929	855,573	24,330,737	18,124,847	6,183,077	264,928	27,115,735	-	27,115,735
Amortization	76,270	1,394,396	1,321,305	1,053,892	257,446	233,518	3,219,881	-	3,219,881
Operating profit	3,561,536	11,472,671	21,120,231	18,804,970	2,236,919	55,518	35,993,876	-	35,993,876

¹ Other operating segments are not separately disclosed.

² Net revenue includes intersegment revenues.

(2) For the year ended December 31, 2019

<i>(In millions of Korean won)</i>	CE ¹	IM	DS			Harman	Total ²	Intercompany elimination	Consolidated
			Total ²	Semiconductor	DP				
Total revenue	100,402,724	223,959,110	193,141,859	123,766,753	66,908,763	11,749,815	531,113,681	(300,712,800)	230,400,881
Intercompany revenue	(55,079,879)	(116,692,955)	(97,623,857)	(58,827,701)	(35,854,834)	(1,672,719)	(300,712,800)	300,712,800	-
Net revenue ³	45,322,843	107,266,155	95,518,002	64,939,052	31,053,929	10,077,096	230,400,881	-	230,400,881
Depreciation	554,467	1,215,268	23,584,306	17,017,054	6,533,810	337,609	26,573,816	-	26,573,816
Amortization	73,536	1,388,619	1,138,678	836,951	291,721	232,104	3,023,822	-	3,023,822
Operating profit	2,508,998	9,272,468	15,581,687	14,016,302	1,581,333	322,331	27,768,509	-	27,768,509

¹ Segment information has been restated due to the reclassification of Healthcare and Medical Equipment business to CE segment.

² Other operating segments are not separately disclosed.

³ Net revenue includes intersegment revenues.

Samsung Electronics Co., Ltd. and its subsidiaries

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

(B) Regional information

The regional segment information provided to the Management Committee for the reportable segments as of and for the years ended December 31, 2020 and 2019 are as follows:

(1) As of and for the year ended December 31, 2020

<i>(In millions of Korean won)</i>	Korea	America	Europe	Asia and Africa	China	Intercompany elimination	Consolidated
Net revenue	37,035,377	78,305,571	45,967,097	37,692,286	37,806,657	-	236,806,988
Non-current assets ¹	110,075,478	9,035,206	6,087,436	8,972,711	13,782,478	(531,915)	147,421,394

¹ Financial instruments, deferred tax assets, and investments in associates and joint ventures are excluded from non-current assets.

(2) As of and for the year ended December 31, 2019

<i>(In millions of Korean won)</i>	Korea	America	Europe	Asia and Africa	China	Intercompany elimination	Consolidated
Net revenue	34,180,362	73,851,914	42,713,958	41,614,112	38,040,535	-	230,400,881
Non-current assets ¹	100,315,093	10,357,696	6,648,962	11,030,300	12,598,701	(421,774)	140,528,978

¹ Financial instruments, deferred tax assets, and investments in associates and joint ventures are excluded from non-current assets.

Samsung Electronics Co., Ltd. and its subsidiaries

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

30. Related Party Transactions

(A) Sale and purchase transactions

Sale and purchase transactions with related parties for the years ended December 31, 2020 and 2019 are as follows:

		2020			
<i>(In millions of Korean won)</i>	Name of company¹	Sales	Disposal of non-current assets	Purchases	Purchase of non-current assets
Associates and joint ventures	Samsung SDS	108,634	77	1,752,792	469,270
	Samsung Electro-Mechanics	37,837	-	1,664,069	-
	Samsung SDI	73,561	272	601,286	91,949
	Cheil Worldwide	26,996	-	649,164	-
	Other	1,059,045	30	10,556,776	166,842
	Total		1,306,073	379	15,224,087
Other related parties	Samsung C&T	94,736	43,214	328,484	4,057,233
	Other	309,819	-	1,105,252	497,163
	Total	404,555	43,214	1,433,736	4,554,396
Other ²	Samsung Engineering	4,104	-	70,073	1,946,409
	S-1	17,199	-	436,211	43,336
	Other	100,591	-	422,989	172,023
	Total	121,894	-	929,273	2,161,768

¹ Transactions with separate entities that are related parties of the Company.

² Although these entities are not related parties of the Company in accordance with *Korean IFRS 1024*, they belong to the same large enterprise group in accordance with the Monopoly Regulation and Fair Trade Act.

		2019			
<i>(In millions of Korean won)</i>	Name of company¹	Sales	Disposal of non-current assets	Purchases	Purchase of non-current assets
Associates and joint ventures	Samsung SDS	85,415	-	2,018,871	498,722
	Samsung Electro-Mechanics	48,874	-	2,214,388	16
	Samsung SDI	93,634	16,106	626,320	80,886
	Cheil Worldwide	25,821	-	813,808	958
	Other	914,634	2	10,482,459	245,683
	Total		1,168,378	16,108	16,155,846
Other related parties	Samsung C&T	116,272	17,367	383,645	4,208,197
	Other	204,758	-	1,078,775	1,168,865
	Total	321,030	17,367	1,462,420	5,377,062
Other ²	Samsung Engineering	5,675	-	81,169	2,001,467
	S-1	18,270	-	406,685	29,153
	Other	125,320	1,477	365,795	557,852
	Total	149,265	1,477	853,649	2,588,472

¹ Transactions with separate entities that are related parties of the Company.

Samsung Electronics Co., Ltd. and its subsidiaries

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

² Although these entities are not related parties of the Company in accordance with *Korean IFRS 1024*, they belong to the same large enterprise group in accordance with the Monopoly Regulation and Fair Trade Act.

(B) Balances of receivables and payables

Balances of receivables and payables arising from sales and purchases of goods and services as of December 31, 2020 and 2019 are as follows:

<i>(In millions of Korean won)</i>		Name of company ¹	December 31, 2020	
			Receivables	Payables ²
Associates and joint ventures		Samsung SDS	36,905	543,388
		Samsung Electro-Mechanics	379	120,407
		Samsung SDI	108,561	89,178
		Cheil Worldwide	195	398,836
		Other	253,921	1,154,549
		Total	399,961	2,306,358
Other related parties		Samsung C&T	245,138	2,327,126
		Other	20,484	172,726
		Total	265,622	2,499,852
Other ³		Samsung Engineering	492	538,853
		S-1	2,091	45,257
		Other	11,344	55,053
		Total	13,927	639,163

¹ Balances due from and to separate entities that are related parties of the Company.

² Payables and others include lease liabilities.

³ Although these entities are not related parties of the Company in accordance with *Korean IFRS 1024*, they belong to the same large enterprise group in accordance with the Monopoly Regulation and Fair Trade Act.

<i>(In millions of Korean won)</i>		Name of company ¹	December 31, 2019	
			Receivables	Payables ²
Associates and joint ventures		Samsung SDS	19,723	636,169
		Samsung Electro-Mechanics	2,457	207,339
		Samsung SDI	103,809	135,048
		Cheil Worldwide	423	415,785
		Other	177,491	997,632
		Total	303,903	2,391,973
Other related parties		Samsung C&T	230,535	1,215,575
		Other	18,884	170,130
		Total	249,419	1,385,705
Other ³		Samsung Engineering	2,734	629,584
		S-1	1,464	50,498
		Other	12,211	115,072
		Total	16,409	795,154

¹ Balances due from and to separate entities that are related parties of the Company.

² Payables and others include lease liabilities.

Samsung Electronics Co., Ltd. and its subsidiaries

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

³ Although these entities are not related parties of the Company in accordance with *Korean IFRS 1024*, they belong to the same large enterprise group in accordance with the Monopoly Regulation and Fair Trade Act.

- (C) For the years ended December 31, 2020 and 2019, the Company invested ₩ 83,280 million and ₩ 12,822 million, respectively, in associates and joint ventures. In addition, there was no return of investments in associates and joint ventures for the year ended December 31, 2020 (the return of investments in associates and joint ventures for the year ended December 31, 2019 was ₩ 1,437 million). Furthermore, the Company acquired the PLP business from Samsung Electro-Mechanics Co., Ltd., an associate, at ₩ 785,000 million for the year ended December 31, 2019.
- (D) For the year ended December 31, 2020, the Company declared ₩ 1,659,962 million of dividends (₩ 1,661,903 million for the year ended December 31, 2019) to related parties. In addition, for the years ended December 31, 2020 and 2019, the Company declared ₩ 125,744 million of dividends to the entities that are not related parties of the Company in accordance with *Korean IFRS 1024*, but belong to the same conglomerate according to the Monopoly Regulation and Fair Trade Act. As of December 31, 2020 and December 31, 2019, no dividends declared remains unpaid.
- (E) For the year ended December 31, 2020, the Company entered into lease agreements with its related parties amounted to ₩ 2,026 million, and the lease payments made to the related parties for the years ended December 31, 2020 and 2019 amounted to ₩ 51,798 million and ₩ 55,805 million, respectively.
- (F) Key management compensation

The compensation paid or payable to key management (executive directors) for their services for the years ended December 31, 2020 and 2019 consists of:

<i>(In millions of Korean won)</i>	2020	2019
Short-term employee benefits	13,333	9,821
Post-employment benefits	987	1,321
Other long-term employee benefits	7,287	6,449

Samsung Electronics Co., Ltd. and its subsidiaries

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

31. Information for Non-Controlling Interests

(A) Changes in accumulated non-controlling interests

The profit or loss allocated to non-controlling interests and accumulated non-controlling interests of subsidiaries that are material to the Company for the years ended December 31, 2020 and 2019 are as follows:

<i>(In millions of Korean won)</i>	Samsung Display Co., Ltd. and its subsidiaries	
	2020	2019
Percentage of non-controlling interests	15.2%	15.2%
Balance as of January 1	7,427,228	7,181,049
Profit for the year	294,139	212,351
Dividends	(54,121)	(3,797)
Other	56,538	37,625
Balance as of December 31	7,723,784	7,427,228

(B) The summarized financial information for each subsidiary with non-controlling interests that are material to the Company before intercompany eliminations for the years December 31, 2020 and 2019 are as follows:

(1) Summarized consolidated statements of financial position

<i>(In millions of Korean won)</i>	Samsung Display Co., Ltd. and its subsidiaries	
	December 31, 2020	December 31, 2019
Current assets	28,354,913	23,388,388
Non-current assets	26,904,627	30,343,285
Current liabilities	7,631,559	5,482,650
Non-current liabilities	841,323	3,687,057
Equity attributable to:	46,786,658	44,561,966
Owners of the parent company	46,282,988	44,021,178
Non-controlling interests	503,670	540,788

(2) Summarized consolidated statements of comprehensive income

<i>(In millions of Korean won)</i>	Samsung Display Co., Ltd. and its subsidiaries	
	2020	2019
Sales	30,474,830	30,957,776
Profit for the year	1,874,486	1,139,753
Other comprehensive income (loss)	408,022	161,549
Total comprehensive income attributable to:	2,282,508	1,301,302
Owners of the parent company	2,267,953	1,285,056
Non-controlling interests	14,555	16,246

Samsung Electronics Co., Ltd. and its subsidiaries

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

(3) Summarized consolidated statements of cash flows

<i>(In millions of Korean won)</i>	Samsung Display Co., Ltd. and its subsidiaries	
	2020	2019
Cash flows from operating activities	7,800,766	7,606,805
Cash flows from investing activities	(6,933,401)	(6,108,946)
Cash flows from financing activities	(536,883)	(1,503,785)
Reclassification to assets held-for-sale	(139)	-
Effect of exchange rate changes on cash and cash equivalents	(27,688)	2,435
Increase (decrease) in cash and cash equivalents	302,655	(3,491)
Cash and cash equivalents at beginning of the year	672,880	676,371
Cash and cash equivalents at end of year	975,535	672,880

32. Assets and Liabilities Held-for-Sale

(A) Sales of ownership interest in SSM and SSL

For the year ended December 31, 2020, the Company decided to sell its 100% ownership in Samsung Suzhou Module Co., Ltd. (“SSM”) and 60% ownership in Samsung Suzhou LCD Co., Ltd. (“SSL”) to TCL China Star Opto-electronics Technologies Co. (CSOT). The Company entered into the sales agreement on August 28, 2020, and the sales will be completed within a year.

(B) Details of assets and liabilities classified as held-for-sale as of December 31, 2020 are as follows:

<i>(In millions of Korean won)</i>	December 31, 2020
Assets held-for-sale	
Cash and cash equivalents	139
Inventories	53,157
Other current assets	26,474
Property, plant and equipment	766,614
Intangible assets	1,421
Other non-current assets	81,627
Total	929,432
Liabilities held-for-sale	
Current liabilities	337,032
Non-current liabilities	1,710
Total	338,742

(C) Details of accumulated other comprehensive income attributable to assets held-for-sale are as follows:

<i>(In millions of Korean won)</i>	December 31, 2020
Loss on overseas business translation, net of tax	(12,132)