

# SAMSUNG

## **SAMSUNG ELECTRONICS Co., Ltd.** **2024 Half-year Business Report** For the half-year ended June 30, 2024

Certain statements in the document, other than purely historical information, including estimates, projections, statements relating to our business plans, objectives and expected operating results, and the assumptions upon which those statements are based, are “forward-looking statements.” Forward-looking statements are based on current expectations and assumptions that are subject to risks and uncertainties which may cause actual results to differ materially from the forward-looking statements. A detailed discussion of risks and uncertainties that could cause actual results and events to differ materially from such forward-looking statements is included in our financial reports available on our website.

See, also, 『Note on Forward-Looking Statements』 in preamble of 『II. Businesses Overview』.

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# Certification

## Letter of Certification

We, Jong-hee Han and Hark-kyu Park, as a CEO and the executive in charge of reporting, respectively, certify that we have thoroughly reviewed the half-year business report of Samsung Electronics Co., Ltd. for the six-month period ended June 30, 2024.

Based on our knowledge, this report does not contain any untrue statements of material facts or omit any material facts; and it does not contain any statements that are intentionally misleading for the users of the information in the report.

We confirm that Samsung Electronics operates the Internal Controls over Financial Reporting, as defined in Article 8 of the Act on External Audit of Stock Companies.

Date: August 14, 2024

Jong-hee Han



Vice Chairman and CEO  
Samsung Electronics Co., Ltd.

Executive responsible for reporting: Hark-kyu Park



President and CFO  
Samsung Electronics Co., Ltd.

# I. Corporate Overview

## 1. Overview

### A. Legal, Commercial name:

- Samsung Electronics Co., Ltd.

### B. Date of establishment:

- Samsung Electronics Co., Ltd. (“SEC” or “the Company”) was established as Samsung Electronics Industry Co., Ltd. on January 13, 1969, and held an initial public offering on June 11, 1975.
- SEC changed its name from Samsung Electronics Industry Co., Ltd. to Samsung Electronics Co., Ltd. following a resolution passed at the Annual General Meeting (AGM) of shareholders on February 28, 1984.

### C. Address, phone number, and English language website of the corporate headquarters

- Address: 129, Samsung-ro, Yeongtong-gu, Suwon, Gyeonggi-do, Korea
- Phone Number: +82-31-200-1114
- Website: <https://www.samsung.com/>

### D. Core businesses

- The Company consists of the Device eXperience (DX) Division and Device Solutions (DS) Division, Samsung Display (SDC) and its subsidiaries, and Harman International Industries, Inc. (Harman) and its subsidiaries. SDC runs the display panel business, and Harman operates businesses related to automotive electronics components, etc.

SEC is a global electronics firm comprised of its headquarters in Korea and 226 subsidiaries across the world, including 9 regional headquarters for the DX Division, 5 regional headquarters for the DS Division, production and sales subsidiaries, and SDC and Harman.

Key products by each organization are set forth below:

Organization	Key products
DX Division	TVs, monitors, refrigerators, washing machines, air conditioners, smartphones, telecommunications network systems, computers, etc.
DS Division	DRAM, NAND flash, mobile APs, etc.
SDC	OLED panels for smartphones, etc.
Harman	Digital cockpits, car audio, portable speakers, etc.

## **[DX Division]**

The DX Division consists of businesses engaged in the manufacturing and sales of TVs, monitors, refrigerators, washing machines, air conditioners, smartphones, tablets, wearables, and network systems.

In the TV market, Samsung has led the market in sales since 2006, with 2023 marking our 18th year in the top position. And amid intensifying competition, we are further widening the technological gap with competitors by applying new AI technologies to our flagship products and super big TVs in particular. In home appliances, we are leading the global market with our Bespoke line, meeting customer needs with tailored functionality and differentiated products, technologies, and designs.

In the mobile business, we became the global leader in shipments in 2011 and have maintained that position for 13 straight years. Using the Galaxy brand, we optimize our product portfolio in varying market conditions through our diverse and competitive smartphone lineup that includes entry-level devices through to premium models along with tablets, wearables, and digital wallet.

We will continually provide new value through our technological innovations and preparations for the future based on our unrivaled R&D capabilities. Furthermore, through our R&D efforts, we endeavor to be a market leader for paradigm shifts as we continue to innovate in eco-friendly technologies to keep advancing our products and services.

## **[DS Division]**

The Memory Business, System LSI Business, and Foundry Business make up the DS Division. The Memory Business manufactures and sells DRAM and NAND products; the System LSI Business designs and sells mobile application processors (“mobile APs” or “APs”) and camera image sensors; and the Foundry Business is in charge of consignment production of semiconductors.

The Memory Business continues to lead the global memory market by focusing on qualitative growth by applying advanced process technology in DRAM and NAND flash products; differentiating our products via a portfolio centered on high-value solutions; and enhancing cost competitiveness, to name a few.

The System LSI Business has not been complacent, having extended its focus from mobile to include automotive chips, and is expanding its market power by enhancing collaborations with customers to offer differentiated products featuring on-device AI, high-performance IP, etc. At the same time, we continue diversify applications and develop next-generation technologies.

Amid a prolonged market downturn caused by the delayed recovery in global demand, the Foundry Business is focusing on demand in the medium to long term by continuing to fortify its competitiveness in advanced technologies. For mature technologies, we provide customer-centric design infrastructure and are expanding high-value-added applications.

## **[SDC]**

In SDC, the mobile panel business’s differentiated technology is a key factor behind the increased adoption of OLED panels, and we have expanded the overall market with the release of products in a variety of applications, such as foldable devices, IT devices (tablet/notebook PCs), and automotives. Meanwhile, the large panel business is focusing on premium products— such as high-definition, ultra-large, Quantum Dot TVs—and is enhancing its competitiveness by continually improving its technology and productivity.

## [Harman]

Harman's automotive component business develops and supplies products and solutions for connected cars, and its lifestyle audio business provides general audio products and professional audio solutions.

In the automotive component market, Harman is a leading player and supplies car manufacturers with competitive products. In the audio market, Harman's innovative products have firmly established a strong reputation among consumers and audiophiles alike.

Harman also offers differentiated customer experiences through its expanded collaboration with Samsung Electronics product lines; and it further strengthens each business area via in-house development and strategic acquisitions.

☞ See 『II. Businesses Overview』 for more details about each Division.

### E. Subsidiaries subject to consolidated accounting (summary)

As of June 30, 2024, and in accordance with Korean International Financial Reporting Standards (K-IFRS) 1110, Consolidated Financial Statements, Samsung Electronics, the controlling company, had 226 consolidated subsidiaries, with the addition of 1 subsidiary and reduction of 7 subsidiaries when compared to totals as of December 31, 2023.

Classification	Number of subsidiaries subject to consolidated accounting				Number of major subsidiaries
	As of January 1, 2024	Added	Removed	As of June 30, 2024	
Listed	-	-	-	-	-
Unlisted	232	1	7	226	142
Total	232	1	7	226	142

See 『Appendix-1. Subsidiaries subject to consolidated accounting (detailed)』 for details.

### [Changes in subsidiaries subject to consolidated accounting]

Classification	Subsidiary	Reason
Newly consolidated	Harman International (Thailand) Co., Ltd.	Establishment
No longer consolidated	Harman Financial Group LLC	Liquidation
	Samsung Display Slovakia, s.r.o., v likvidácii (SDSK)	Liquidation
	Samsung Electronics Overseas B.V. (SEO)	Liquidation
	DOWOINSYS VINA COMPANY LIMITED	Disposal
	Dowooinsys Co., Lt	Disposal
	Gf-System Co., Ltd.	Disposal
	Samsung Venture Capital Union SVIC No. 48	Liquidation

## F. Whether the Company is an SME

The Company is not subject to Article 2 of the Framework Act on Small and Medium Enterprises.

Small and medium enterprise	No
Venture company	No
Medium-sized enterprise	No

## G. Credit rating

SEC's credit rating is assessed by two external credit ratings agencies. As of June 30, 2024, SEC's credit ratings were Aa2 with a stable investment outlook as rated by Moody's (US); and AA- with a stable investment outlook as rated by S&P (US).

Securities	Date	Rating	Credit rating agency	Note
Corporate bond (USD denominated; issued in 1997 and expire in 2027)	Aug 2022	AA-	S&P	Regular review
	Sep 2022	Aa2	Moody's	
	Jul 2023	AA-	S&P	
	Aug 2023	Aa2	Moody's	
	Feb 2024	Aa2	Moody's	

### [Credit ratings definitions]

	Moody's		S&P	
	Rating	Definition	Rating	Definition
Investment grade	Aaa	Superior ability to repay debt obligations; lowest level of credit risk	AAA	Extremely strong ability to meet financial commitments; highest rating
	Aa1/Aa2/Aa3	High ability to repay debt obligations; very low credit risk	AA+/AA/AA-	Very strong capacity to meet financial commitments
	A1/A2/A3	Upper-medium ability to repay debt obligations; low credit risk	A+/A/A-	Strong capacity to meet financial commitments; susceptible to adverse effects of changes in economic conditions
	Baa1/Baa2/Baa3	Medium ability to repay debt obligations; moderate credit risk, speculative factors	BBB+/BBB/BBB-	Adequate capacity to meet financial commitments; relatively more susceptible to adverse economic conditions
Speculative grade	Ba1/Ba2/Ba3	Speculative; substantial credit risk	BB+/BB/BB-	Major ongoing uncertainties; exposure to adverse business, financial, or economic conditions can impair ability to meet financial commitments
	B1/B2/B3	Speculative; high credit risk	B+/B/B-	More vulnerable to nonpayment than those rated BB; has capacity to meet financial commitments but adverse financial or economic conditions are likely to impair ability to continue doing so
	Caa	Speculative; very high credit risk	CCC	Vulnerable to nonpayment; dependent upon favorable business, financial, and economic conditions
	Ca	Highly speculative; likelihood of being in or near default; some prospect for recovery of principal and interest	CC	Highly vulnerable to nonpayment; default has not yet occurred but expected to be a virtual certainty
	C	Typically in default; little prospect for recovery of principal or interest	C	Highly vulnerable to nonpayment; obligation is expected to have lower ultimate recovery vis-à-vis higher rated obligations
			D	In default or in breach of imputed promises, upon the filing of a bankruptcy petition or the taking of a similar action

Please refer to 『III. Financial Affairs-7. Matters about financing through the issuance of securities』 for credit ratings on corporate bonds and commercial paper issued by the Company's subsidiaries.

## H. Whether the Company is listed (or registered or designated) and matters related to special listed companies

The Company listed on the Korea Stock Exchange on June 11, 1975.

Listed (or registered or designated)	Date listed (or registered or designated)	Special listed company
Stock market (KOSPI)	June 11, 1975	No

## 2. Company history

### A. Company location and changes

The Company's head office is located at 129, Samsung-ro, Yeongtong-gu, Suwon, Gyeonggi-do. There were no changes in the Company's head office location during the reporting period.

### B. Important changes in management executives

The Company's Board of Directors is composed of Directors who are appointed at the AGM, and the Board decides on important matters of the Company's businesses. As of June 30, 2024, SEC's Board consisted of four Executive Directors (Jong-hee Han, Tae-moon Roh, Hark-kyu Park and Jung-bae Lee) and six Independent Directors (Han-jo Kim, Jun-sung Kim, Eun-nyeong Heo, Myung-hee Yoo, Je-yoon Shin and Hye-kyung Cho). Samsung's CEOs are appointed by the Board of Directors to lead a Division of the Company. As of June 30, 2024, the CEOs are Jong-hee Han, who was appointed in February 2022 and reappointed in March 2023. Kye-hyun Kyung resigned from his positions of CEO and Executive Director on May 21, 2024.

Date of change	Type of shareholder meeting	Appointed		Terms expired or dismissed
		Newly appointed	Reappointed	
Mar 18, 2020	AGM	Executive Director Jong-hee Han Executive Director Yoon-ho Choi	-	-
Mar 17, 2021	AGM	-	Executive Director Ki-nam Kim Executive Director Hyun-suk Kim Executive Director Dong-jin Koh Independent Director Byung-gook Park Independent Director Jeong Kim Independent Director Sun-uk Kim for Audit Committee Member	-
Mar 17, 2021	-	-	CEO Ki-nam Kim CEO Hyun-suk Kim CEO Dong-jin Koh	-
Dec 31, 2021	-	-	-	Executive Director Yoon-ho Choi (resigned)
Feb 15, 2022	-	CEO Jong-hee Han	-	CEO Ki-nam Kim (resigned) CEO Hyun-suk Kim (resigned) CEO Dong-jin Koh (resigned)



Date of change	Type of shareholder meeting	Appointed		Terms expired or dismissed
		Newly appointed	Reappointed	
Mar 16, 2022	AGM	Executive Director Kye-hyun Kyung Executive Director Tae-moon Roh Executive Director Hark-kyu Park Executive Director Jung-bae Lee Independent Director Wha-jin Han Independent Director Jun-sung Kim	Independent Director Han-jo Kim	Executive Director Ki-nam Kim (resigned) Executive Director Hyun-suk Kim (resigned) Executive Director Dong-jin Koh (resigned)
Mar 16, 2022	-	CEO Kye-hyun Kyung	-	-
Mar 19, 2022	-	-	-	Independent Director Jae-wan Bahk (term expired) Independent Director Curie Ahn (term expired)
Apr 20, 2022	-	-	-	Independent Director Wha-jin Han (resigned)
May 17, 2022	-	-	-	Independent Director Byung-gook Park (vacated)
Nov 3, 2022	EGM	Independent Director Eun-nyeong Heo Independent Director Myung-Hee Yoo	-	-
Mar 15, 2023	AGM	-	Executive Director Jong-hee Han	-
Mar 15, 2023	-	-	CEO Jong-hee Han	-
Mar 20, 2024	AGM	Independent Director Je-yoon Shin Independent Director Hye-kyung Cho (as Independent Director for Audit Committee Member)	-	Independent Director Sun-uk Kim (vacated)
Mar 22, 2024	-	-	-	Independent Director Jeong Kim (term expired)
May 21, 2024	-	-	-	CEO & Independent Director Kye-hyun Kyung (resigned)

Mar 20, 2024: Hye-kyung Cho was appointed as Independent Director for Audit Committee Member which resulted in the resignation of Independent Director Sun-uk Kim, who was appointed as Audit Committee Member in the same manner in 2021.

### C. Changes in the major shareholder

The major shareholder changed to Samsung Life Insurance as the shares of the previous major shareholder were inherited by beneficiaries on April 29, 2021.

[ As of June 30, 2024 ]

Date of Change	Name of major shareholder	Number of shares owned	Share ratio	Reason for change	Note
Apr 29, 2021	Samsung Life Insurance	1,263,050,053	21.16%	Shares of the previous major shareholder were inherited by beneficiaries	-

Number of shares owned and share ratio are the sum of those of major shareholder and its related parties, and the number of shares is based on shares with voting rights (including those with limited voting rights in accordance with relevant laws).

☞ Please refer to 『VII. Information on Shareholders』 for details on the major shareholder.

## D. Company name changes

In 2021, Samsung Electronics Portuguesa S.A. (SEP) changed its name to Samsung Electronics Portuguesa, Unipessoal, Lda. (SEP).

In 2023, Emerald Intermediate, Inc. changed its name to Samsung Display America Holdings, Inc. (SDAH).

☞ Details are for SEC and major subsidiaries of SEC. See 『1. Subsidiaries subject to consolidated accounting (detailed)』 in 『XII. Appendix』 for details.

## E. Mergers and acquisitions

In 2021, Samsung Research America, Inc. (SRA) merged with Viv Labs, Inc. Furthermore, Samsung Electronics America, Inc. (SEA) merged with Prismview, LLC.

In 2023, Samsung Display America Holdings, Inc. (SDAH) acquired shares of eMagin Corporation.

☞ Details are for SEC and major subsidiaries of SEC. See 『1. Subsidiaries subject to consolidated accounting (detailed)』 in 『XII. Appendix』 for details.

## F. Important changes in the Company's business

There were no changes during the reporting period.

## G. Other important matters related to the Company's business

(1) Important matters related to the Company's business

Year	Products
2020	Launched Grande AI, an AI-based washer and dryer
	Launched ultrahigh speed DRAM for AI and next-generation super computers
	Unveiled Galaxy Z Flip, the first foldable phone
	Started operation of Pyeongtaek Line 2, the world's largest semiconductor line
2021	Unveiled Neo QLED TV
	Received certification for reducing carbon emissions, water use, and waste discharge for all of our semiconductor worksites, a first in the global semiconductor industry
	Started mass producing the industry's most advanced 14-nano EUV DDR5 DRAM
	Announced investment in a new foundry production site in Taylor, Texas, USA
2022	Unveiled Bespoke Infinite Line
	Mass produced 3nm GAA foundry, a world's first
	Held a groundbreaking ceremony for the next-generation semiconductor R&D complex
	Mass produced 1Tb 8th-generation V-NAND
2023	Released ISOCELL HP2, a 200-megapixel image sensor concentrated with ultra-fine pixel technology
	Started mass producing the industry's most advanced 12-nano class DRAM
	Unveiled the Galaxy Z Fold5 and Galaxy Z Flip5
	Developed 32Gb DDR5 DRAM, the largest capacity currently available

	Unveiled Samsung Gauss, a generative AI model
2024	Unveiled Galaxy S24 series, a new lineup of AI phones
	Achieved a leading position in the global commercial display market for a 15th consecutive year
	Developed industry's fastest LPDDR5X
	Mass produced 9th-generation V-NAND, an industry's first
	Exceeded sales of 3 million Bespoke refrigerator units in five years since launch

## (2) Organizational changes

In December 2021, the Company merged its CE and IM Divisions to form the DX Division and changed the Mobile Communications Business to the Mobile eXperience (MX) Business.

Also, the Company separated SDC and the DS Division to align with the corporate organizational structure.

[As of December 2021]

	Before	After
Business organization	CE Division (Visual Display, Digital Appliances, Medical Devices)	DX Division (Visual Display, Digital Appliances, Medical Devices, MX Business, Networks)
	IM Division (Mobile, Networks)	
	DS Division (Memory, System LSI, Foundry, DP)	DS Division (Memory, System LSI, Foundry)
		SDC (DP)
	Harman Division	Harman
Regional headquarters	Korea, North America, Latin America, Europe, CIS, Southwest Asia, Southeast Asia, China, Middle East, Africa	Korea, North America, Latin America, Europe, CIS, Southwest Asia, Southeast Asia, China, Middle East, Africa
	Americas (DS), Europe (DS), China (DS), Southeast Asia (DS), Japan (DS)	Americas (DS), Europe (DS), China (DS), Southeast Asia (DS), Japan (DS)

## 3. Stock Information

### A. Total number of shares

As of June 30, 2024, SEC's issued shares on a cumulative basis totaled 7,780,466,850 registered common shares and 1,194,671,350 registered, non-voting preferred shares; and the Company had canceled 1,810,684,300 common shares and 371,784,650 preferred shares in accordance with resolutions of the Board of Directors (the Board). As of the same date, issued shares and shares outstanding totaled 5,969,782,550 for common shares and 822,886,700 for preferred shares.

[As of June 30, 2024]

Classification	Type of stocks			Note
	Common	Preferred	Total	
I. Authorized shares	20,000,000,000	5,000,000,000	25,000,000,000	-
II. Issued shares (cumulative)	7,780,466,850	1,194,671,350	8,975,138,200	-
III. Decrease in number of shares (cumulative)	1,810,684,300	371,784,650	2,182,468,950	-
1. Capital reduction	-	-	-	-
2. Cancellation	1,810,684,300	371,784,650	2,182,468,950	Treasury shares
3. Redemption	-	-	-	-
4. Other	-	-	-	-

IV. Issued shares (II-III)	5,969,782,550	822,886,700	6,792,669,250	-
V. Treasury shares	-	-	-	-
VI. Outstanding shares	5,969,782,550	822,886,700	6,792,669,250	-

#### 4. Changes to Articles of Incorporation

Articles of Incorporation was amended at the 55<sup>th</sup> AGM held on March 20, 2024.

☞ For details of the changes to Articles of Incorporation, please refer to the “Announcement of Shareholders’ Meeting” for the 55<sup>th</sup> AGM disclosed on Financial Supervisory Service’s DART (<http://dart.fss.or.kr>).

Date of change	AGM	Key changes	Reasons for change
Mar 20, 2024	55th AGM	<ul style="list-style-type: none"> <li>- Types of share certificates has been deleted</li> <li>- Administrative procedure for the transfer agent has been modified; provision requiring the reporting of shareholder information to the transfer agent has been deleted; provisions such as preparing the register of shareholders based on particulars of shareholders have been established</li> <li>- Provisions related to the closing of register have been deleted</li> <li>- Article for electronic registration of rights to be indicated on the share, bonds, and subscription warrants has been introduced</li> <li>- Compensation Committee, Sustainability Committee, and Related Party Transactions Committee have been specified to operate under the Board of Directors</li> <li>- Notice period for convening a Meeting of the Board has been changed from “at least 24 hours prior” to “7 days prior” to the meeting, provided that this notification period can be shortened to “at least 24 hours prior” in urgent circumstances.</li> <li>- Revision of other articles: Article 38 (Disposition of Profits), Article 40 (Approval of Transaction with Specially Related Parties, etc.)</li> </ul>	<ul style="list-style-type: none"> <li>Revision of Articles related to the electronic securities</li> <li>- Addition of Committees established under the Board of Directors</li> <li>- Changes in the notice period for convening Board of Directors meeting</li> </ul>

## A. Purpose of Business

(Business purpose)

No.	Business purpose	Status
1	Manufacture, sale, collection service, lease and maintenance service of electronic and electrical machines and appliances, other related equipments and their components	Operating
2	Manufacture, sale, collection service, lease and maintenance service of communication machines & appliance, other related equipment and their components	Operating
3	Manufacture and sale of medical equipment	Operating
4	Manufacture, sale and maintenance service of luminous disk, luminous source-applied machines and appliances and their components	Operating
5	Manufacture, sale, lease and maintenance service of optical fiber, cable and other related equipment	Operating
6	Manufacture, sale, collection service, lease and maintenance service of electronic computer system and other related products	Operating
7	Manufacture, sale and lease of copyright works and computer programs, etc.	Operating
8	Sale and lease of know-how and technology	Operating
9	Construction, operation and engineering service of information communication systems	Operating
10	Manufacture, sale, lease and maintenance service of automatic control systems and applied equipment	Operating
11	Manufacture, sale, lease and maintenance service of machine tools and their components	Operating
12	Manufacture and sale of semiconductors and other related products	Operating
13	Manufacture and sale of manufacturing facilities for semiconductors	Operating
14	Manufacture and sale of raw and accompanying materials for semiconductor manufacturing	Operating

No.	Business Purpose	Status
15	Manufacture and sale of other machines and appliances	Operating
16	Manufacture, processing and sale of synthetic resins	Operating
17	Refining, processing and sale of metals other than gold	Operating
18	Export, import and its agency business	Operating
19	Cultivation and sale of cash crop	Not operating
20	Real estate business	Operating
21	Offer business	Operating
22	Manufacture, sale and test of gauge and measuring instruments, etc.	Operating
23	Technology service for the above items, construction of information communication and construction of electric connection system	Operating
24	Lease and sale of residential lots	Operating
25	Sports, games and other related businesses	Operating
26	Manufacture of electric motor, power generator and electric converter apparatus	Operating
27	Manufacture of electricity supply and control devices	Operating
28	Educational service and other services related to business	Operating
29	Business and investment incidental to any of the foregoing	Operating

## II. Businesses Overview

### *Note on forward-looking statements*

This report includes forward-looking statements that relate to future events and can be generally identified by phrases containing words such as “believes,” “expects,” “anticipates,” “foresees,” “forecasts,” “estimates” or other words or phrases of similar meaning. These forward-looking statements are not guarantees of future performance and may involve known and unknown risks, uncertainties and other factors that may affect our actual results, performance, achievements or financial position, making them materially different from the actual future results, performance, achievements or financial position expressed or implied by these forward-looking statements. Unless otherwise specified, all data presented in this report is from our consolidated financial statements.

Uncertain events that could positively or negatively affect the Company’s management condition and financial performance include, but are not limited to:

- Trends of financial markets domestically and abroad, including changes in exchange rates and interest rates
- The Company’s strategic decision making, including disposals and purchases of businesses
- Unexpected sudden changes in core businesses such as CE, IM, Semiconductor, DP and Harman
- Other changes domestically and abroad that can affect management condition and financial performance

The Company assumes no obligation to revise or update this report to reflect risks or uncertainties that arise after the reporting period.

#### **(Responsibility statement)**

In accordance with article 3(2) c) of the Transparency Law (Luxembourg), Jong-hee Han and Hark-kyu Park, as a CEO and the executive in charge of reporting confirm that, to the best of their knowledge, the consolidated financial statements and the statutory non-consolidated financial statements prepared in accordance with the applicable set of accounting standards give a true and fair view of the assets, liabilities, financial position and profit or loss of the Company and the undertakings included in the consolidation taken as a whole and that the management report includes a fair review of the development and performance of the business and the position of the Company and the undertakings included in the consolidation taken as a whole, together with a description of the principal risks and uncertainties that they face.

### **1. Overview**

In addition to our headquarters in Korea, Samsung Electronics Co., Ltd. consists of 226 subsidiaries across the world responsible for sales and production, which include 9 regional headquarters for the Device eXperience (DX) Division, 5 regional headquarters for the Device Solutions (DS) Division, and subsidiaries of Samsung Display (SDC) and Harman.

The Company’s business divisions form a two-pronged framework consisting of finished products businesses and component businesses. For finished products, the DX Division is responsible for the production and sales of TVs, monitors, refrigerators, washing machines, air conditioners, smartphones, computers, and network systems. For components, the DS Division manufactures and sells DRAM, NAND flash, and mobile Aps; and SDC manufactures and sells panels, including mobile OLED panels. Harman (acquired in 2017) manufactures and sells automotive products such as digital cockpits, car- audio products, and consumer audio products such as portable speakers and soundbars.

☞ See C. Current status of each division and D. Financial summary by organization in 『7. Other information』 for more details about each Division.

The Company's corporate headquarters—which oversees the DX and DS Divisions—and 32 consolidated subsidiaries are located in Korea. The headquarters is divided along Divisions and/or Businesses, which are located in Suwon, Gumi, Gwangju, Giheung, Hwaseong, Pyeongtaek, etc. The Company's unlisted domestic subsidiaries include Samsung Display for display panel production, Samsung Electronics Sales for domestic retail sales, Samsung Electronics Service for after-sales services, and Samsung Electronics Logitech for logistics.

We have 194 unlisted overseas subsidiaries for product manufacturing, sales, and R&D, with locations in the US, Europe/CIS, Middle East/Africa, and Asia, etc.

We have 46 subsidiaries in the Americas, including SEA (New Jersey; responsible for the sales of finished products including TV and smartphones), SII (California; manufacturing of TVs), SSI (California; sales of semiconductors and DPs), SAS (Texas; manufacturing of semiconductor products), SEDA (Brazil; manufacturing of multiple finished products) and Harman (Connecticut; automotive components).

In Europe and CIS, we operate 66 subsidiaries, including SEUK (UK), SEG (Germany), SEF (France), SEI (Italy) for sales of finished products; SEH (Hungary) for manufacturing TVs, and SEPM (Poland) for manufacturing home appliances.

We have 20 subsidiaries in Middle East and Africa, including SGE (UAE) and SSA (South Africa) for sales of finished products and SEEG (Egypt) and SSAP (South Africa) for manufacturing TVs.

There are 32 subsidiaries in Asia (ex China), including SESP (Singapore), SEAU (Australia), SEPCO (Philippines), and SME (Malaysia), which are responsible for regional sales. In addition, we operate numerous production sites including SEV and SEVT (Vietnam) for smartphones, SEHC (Vietnam) for TVs, SDV (Vietnam) for display panels, and SIEL (India) for multiple products.

We operate 30 subsidiaries in China, including SCIC (Beijing) and SEHK (Hong Kong) for the sales of finished products in those regions; and SSS (Shanghai) and SSCX (Xian) for semiconductor and display panel sales. Production sites for finished products include SSEC (Suzhou) and semiconductor production facilities are located in SCS (Xian) among others.

In 1H24, the Company recorded total revenue of KRW 145,983.9 billion, an increase of 18.0% year-on-year. Major customers (listed in alphabetical order) included Apple, Deutsche Telekom, Hong Kong Techtronics, Supreme Electronics, and Verizon.



## 2. Key products and services

### A. Revenue

SEC is involved in the production and sales of finished products, including TVs, refrigerators, washers, air conditioners, smartphones, and components such as semiconductors (e.g., DRAM, NAND flash, mobile APs) and mobile OLED panels. Through Harman, the Company also produces and sells digital cockpits, car audio products, portable speakers, and more.

Reported revenue in 1H24, was KRW 89,363.6 billion (61.2% of total net sales) for DX; KRW 51,693.8 billion (35.4%) for DS; KRW 13,032.6 billion (8.9%) for SDC; and KRW 6,819.3 billion (4.7%) for Harman.

(KRW 100 mil)

Organization	Major products	Revenue	Portion
DX Division	TVs, monitors, refrigerators, washing machines, air conditioners, smartphones, network systems, computers, etc.	893,636	61.2%
DS Division	DRAM, NAND flash, mobile APs, etc.	516,938	35.4%
SDC	OLED smartphone panels, etc.	130,326	8.9%
Harman	Digital cockpits, car audio products, portable speakers, etc.	68,193	4.7%
Others	Overlapping internal transactions between Divisions	-149,254	-10.2%
Total		1,459,839	100.0%

Includes inter-divisional transactions.

See 「4. Revenue and long-term contracts」 for information by each product.

### B. Changes in average selling price

In 1H24, on a year-on-year basis, the average selling price (ASP) of TVs stayed similar and the ASP of smartphones increased by around 7%. Memory-product ASP rose by approximately 60%, and the APS for OLED panels for smartphones decreased by approximately 32%, while the ASP of digital cockpits stayed similar to the previous year.

## 3. Production materials and production facilities

### A. Key production materials

For the DX Division, key materials include mobile AP solutions and camera modules, which are supplied by Qualcomm, Samsung Electro-Mechanics, etc., and display panels for TVs and monitors, which are supplied by CSOT, etc. For the DS Division, key materials include chemicals and wafers, supplied by Soulbrain, SK Siltron, etc., and for SDC, key materials include FPCAs and cover glass, with suppliers such as BH, Apple, etc. For Harman, key materials include system-on-chip (SoC) products, including microcontroller units, communication modules, etc., which are supplied by Nvidia and WNC, etc.

(KRW 100 mil)

Organization	Item	Specific usage	Purchase price	Portion	Main supplier(s)
DX Division	Mobile AP solutions	CPU	60,275	17.1%	Qualcomm, MediaTek, etc.
	Display panel	Color picture signaler for TV, monitor	38,310	10.9%	CSOT, SDP, etc.
	Camera module	Camera for smartphone	29,797	8.5%	Samsung Electro-Mechanics, Partron, etc.
	Others	-	223,896	63.5%	
	Sub total			352,278	100.0%

DS Division	Chemical	Disk processing	12,991	15.8%	Soulbrain, DongWoo Fine- Chem, etc.
	Wafer	Semiconductor disk	11,101	13.5%	SK Siltron, SILTRONIC, etc.
	Others	-	58,307	70.7%	
	Sub total		82,399	100.0%	
SDC	FPCA	Circuit	11,058	19.0%	BH, YP Electronics, etc.
	Cover glass	Tempered glass	6,996	12.0%	Apple, LENS, etc.
	Others	-	40,143	69.0%	
	Sub total		58,197	100.0%	
Harman	SoC	CPU	4,031	18.2%	Nvidia, Intel, etc.
	Communication module	Vehicular communication	2,425	10.9%	WNC (Wistron NeWeb Corp.), etc.
	Others	-	15,750	70.9%	
	Sub total		22,206	100.0%	
Others	-	-	194	-	
Total			515,274	-	

Purchase price does not include sales between Divisions.

Portion of purchase price of each item compared to total purchase price for each Division's raw materials.

Samsung Electro-Mechanics is a subsidiary.

## B. Production material price trends

On a year-on-year basis, the prices of mobile APs and camera modules, which are major production materials for the DX Division, increased by approximately 7%, respectively. The price of TV- and monitor-use display panels increased in the region of 12%. The price of wafers for semiconductor disks decreased by approximately 3%, and the price of FPCAs for SDC decreased by approximately 31%. The price of tempered glass cover glass fell by approximately 33%. For Harman, the price of SoCs decreased by about 5% and the price of communication modules decreased by approximately 9%.

※ Data include internal transactions between Divisions, etc.

## C. Production capacity, output, utilization rate

### (Capacity)

(1,000 units)

Organization	Item	Capacity		
		1H24	2023	2022
DX Division	TV, monitor, etc.	25,673	53,552	55,747
	Smartphone, etc.	133,200	284,700	332,170
DS Division	Memory	1,156,923,805	1,926,651,546	1,905,731,836
SDC	Display panel	1,124	2,320	2,700
Harman	Digital cockpit	4,588	10,912	11,257

Production capacity for major product categories on a consolidated basis.

The DX Divisions' production capacity, by major product, is calculated as follows:

- the average number of lines (×) the average output per hour (×) the average operation hours per day (×) standard days of operation

Memory production capacity for the DS Division is calculated as follows:

- converted output (after packaging, 1Gb equivalent) ÷ the utilization rate

SDC's production capacity is calculated as follows:

- the total producible panel surface area ÷ the dimensions of eighth generation glass (2,200x2,500mm)

Harman's production capacity for Digital cockpit is calculated as follows:

- the number of production (assembly and test) cells for each customer/product (×) the production capacity per hour by production cell (×) the standard operation hours per day (×) standard days of operation

## (Output)

In 1H24, the DX Division's output of TVs, monitors, etc., was 19,845 thousand units (major production sites in Mexico, Vietnam, Brazil, and Hungary), and smartphone output was 98,686 thousand units (major production sites in Korea [Gumi], Vietnam, India, and Brazil). The DS Division's memory output in 1Gb equivalents was 1,156,924 million (major production sites: Korea [Hwaseong, Pyeongtaek, etc.] and China). SDC's display panel output in 8th generation glass equivalents was 830 thousand units (major production sites in Korea [Cheonan, Asan]). Harman's Digital cockpit output was 3,449 thousand units (major production sites in Mexico, Hungary, and China).

(1,000 units)

Organization	Item	Output		
		1H24	2023	2022
DX Division	TV, monitor, etc.	19,845	40,085	41,802
	Smartphone, etc.	98,686	189,991	229,180
DS Division	Memory	1,156,923,805	1,926,651,546	1,905,731,836
SDC	Display panel	830	1,407	2,008
Harman	Digital cockpit	3,449	7,658	8,334

Output for major product categories on a consolidated basis.

## (Utilization rate)

DX utilization rates in 1H24 were calculated as actual output relative to production capacity. The utilization rates were 77.3% for TVs, monitors, etc. and 74.1% for smartphones, etc.

(1,000 units)

Organization	Item	1H24		
		Production capacity	Output	Utilization rate
DX Division	TV, monitor, etc.	25,673	19,845	77.3%
	Smartphone, etc.	133,200	98,686	74.1%

The DS Division and SDC respectively operate memory and display panel production in three shifts covering 24 hours a day. Cumulative operating days including holidays were 182 days in 1H24. The utilization rate was calculated as the actual production time relative to the potential production capacity [operating days (×) number of production lines (×) 24 hours].

(Hours)

Organization	Item	1H24		
		Potential production time	Actual production time	Utilization rate
DS Division	Memory	43,680	43,680	100%
SDC	Display panel	21,840	21,840	100%

In 1H24, Harman's utilization rate was 75.2% and was calculated as actual output relative to production capacity.

(1,000 units)

Organization	Item	1H24		
		Production capacity	Output	Utilization rate
Harman	Digital cockpit	4,588	3,449	75.2%

## D. Production facilities and investment

### (Key facilities for production and operation)

The Company's operational activities include production, development, marketing, and sales. In Korea, operations are located in Suwon, Gumi, Gwangju, Hwaseong, Pyeongtaek, and Asan. Overseas operations in North America, Europe, and China include a total of nine regional headquarters under the DX Division, five regional headquarters under the DS Division, and subsidiaries of SDC and Harman.

[Operations]

Region	Operations	Location
Korea (DX Division, DS Division, SDC – 12 work sites)	Suwon	Suwon
	Secho	Seoul
	Woomyeon	Seoul
	Giheung	Yongin
	Hwaseong	Hwaseong
	Pyeongtaek	Pyeongtaek
	Cheonan	Cheonan
	Onyang	Onyang
	Asan	Asan
	Gumi1	Gumi
	Gumi2	Gumi
Gwangju	Gwangju	
Overseas (DX Division – 9 regional headquarters)	North America	New Jersey, US
	Europe	Surrey, UK
	China	Beijing, China
	Southeast Asia	Singapore, Singapore
	Southwest Asia	Haryana, India
	CIS	Moscow, Russia
	Middle East	Dubai, UAE
	Africa	Johannesburg, South Africa
	Latin America	Sao Paulo, Brazil
Overseas	Americas	San Jose, US

(DS Division – 5 regional headquarters)	Europe	Munich, Germany
	China	Shanghai, China
	Southeast Asia	Singapore, Singapore
	Japan	Tokyo, Japan
Harman	North America HQ	Connecticut, US
	Harman Becker Automotive Systems, Inc.	Michigan, USA
	Harman Becker Automotive Systems GmbH	Karlsbad, Germany
	Harman Consumer Nederland B.V.	Amsterdam, Netherlands

The Company's property, plant and equipment include land, buildings and structures, machinery and equipment, and construction in progress. As of June 30, 2024, the total book value was KRW 194,449.8 billion, which is an increase of KRW 7,193.5 billion from end-2023.

(KRW 100 mil)

Classification		Land	Buildings and structures	Machinery and equipment	Under construction	Other tangible assets	Total
Dec 31, 2023	Book value	99,994	432,381	833,092	467,203	39,893	1,872,563
	- Acquisition cost	101,580	736,900	3,285,615	467,203	140,586	4,731,884
	- Accumulated depreciation (including impairment loss)	-1,586	-304,519	-2,452,523	-	-100,693	-2,859,321
Change	General acquisition and capital expenditure	634	20,486	115,210	95,802	7,286	239,418
	Depreciation <sup>1)</sup>	-245	-20,765	-157,406	-	-7,656	-186,072
	Disposal/discard/impairment	-36	-1,575	-212	-	-147	-1,970
	Others <sup>2)</sup>	310	8,777	6,257	4,380	835	20,559
Jun 30 2024	Book value	100,657	439,304	796,941	567,385	40,211	1,944,498
	- Acquisition cost	102,422	767,255	3,435,782	567,385	148,210	5,021,054
	- Accumulated depreciation (including impairment loss)	-1,765	-327,951	-2,638,841	-	-107,999	-3,076,556

1) Land-depreciation is depreciation expense of right-of-use asset as per K-IFRS 1116 (Lease).

2) Includes effects of FX rates and government subsidies.

3) Market value of major tangible assets is omitted as objective assessment is difficult.

### (Capex)

The Company's capex in 1H24 was approximately KRW 23.4 trillion, with investments concentrating on capacity expansions and migration to advanced nodes; and also on infrastructure for the DS Division and SDC. To prepare for improved global market conditions, the Company in 2024 will keep monitoring investments to strengthen competitiveness for next-generation technologies and prepare for medium- to long-term demand while also fortifying its fundamentals by enhancing investment efficiency.

[Capex, by organization]

(KRW 100 mil)

Organization	Purpose	Period	Assets	Investment
DS division	Establishment, addition, upgrade	January– June 2024	Buildings, facilities, etc.	195,706
SDC	Establishment, addition, upgrade	January– June 2024	Buildings, facilities, etc.	29,125
Other	Establishment, addition, upgrade	January– June 2024	Buildings, facilities, etc.	9,253
Total				234,084

## 4. Revenue and long-term contracts

### A. Revenue

In 1H24, the Company recorded total revenue of KRW 145,983.9 billion, an increase of 18% year-on-year. By organization, when compared to the same period last year, revenue increased by 3.4% and 81.6% in the DX Division and DS Division, respectively, and decreased by 0.5% in SDC. Revenue of Harman increased 2.4%.

(KRW 100 mil)

Organization	Revenue types	Product categories	1H24	2023	2022
DX Division	Goods, products, services, other	TVs, monitors, refrigerators, washing machines, air conditioners, smartphones, network systems, computers, etc.	893,636	1,699,923	1,824,897
DS Division	Goods, products, services, other	DRAM, NAND flash, mobile APs, etc.	516,938	665,945	984,553
SDC	Goods, products, services, other	OLED panels for smartphones, etc.	130,326	309,754	343,826
Harman	Goods, products, services, other	Digital cockpit, car-audios, portable-speakers, etc.	68,193	143,885	132,137
Others	Overlapping internal transactions between Divisions		-149,254	-230,152	-263,099
Total			1,459,839	2,589,355	3,022,314

Includes inter-divisional transactions.

### (1) Sales, by major product (consolidated basis)

(KRW 100 mil)

Classification	1H24	2023	2022
TVs, monitors, etc.	147,775	303,752	332,795
Smartphones, etc.	594,324	1,086,325	1,154,254
Memory	392,321	441,254	685,349
Display panels	130,326	309,754	343,826

Includes inter-divisional transactions.

## (2) Revenue, by type

(KRW 100 mil)

Classification	1H24	2023	2022
Products	1,403,851	2,461,380	2,903,461
Services and other revenue	55,988	127,975	118,853
Total	1,459,839	2,589,355	3,022,314

Other revenue consists of royalty income, etc.

## (3) Revenue, by region (on a separate basis)

(KRW 100 mil)

Classification	1H24	2023	2022
Domestic	111,616	205,196	221,799
Export	Americas	293,349	510,934
	Europe	148,526	239,342
	Asia and Africa	172,794	326,262
	China	323,452	422,007
Total	1,049,737	1,703,741	2,118,675

Domestic consumption and exports on a separate basis.

## B. Sales channels

### (1) Domestic

Seller	Sales channel	Consumer
Manufacturer and buyer	Exclusive agencies	Consumer
	Distributor (general merchandise stores, discount stores, department stores, home-shopping, online, etc.)	
	Telecommunication service provider (SKT Co., Ltd., KT Corp., LG Uplus Corp.)	
	Direct Sales (B2B and online channels)	

### (2) Overseas

Seller	Sales channel				Consumer	
Production subsidiaries	Regional sales office	Retailer			Consumer	
		Dealer		Retailer		
		Distributor	Dealer	Retailer		
		Telecommunication service provider, automotive OEM				
		Direct sales (B2B and online channels)				
	Regional distribution office	Regional sales office	Retailer			
			Dealer	Retailer		
			Distributor	Dealer		Retailer

### (3) Sales ratio (global), by channel

Channel	Wholesale	Retail	Special/direct sales	Others
Ratio	17%	25%	49%	9%

## C. Sales methods and conditions

### (1) Domestic

Classification	Channel	Collection	Incidental expense sharing
Exclusive	Retailer	Credit specific	Case specific cost sharing as determined by mutual agreement
Distributor	General merchandise store, discount store, department store, home shopping, online, etc.	Case specific and contract specific	Case specific cost sharing as determined by mutual agreement
Telecommunication service provider	SKT Co., Ltd., KT Corp., LG Uplus Corp.	Case specific and contract specific	Case specific cost sharing as determined by mutual agreement (joint marketing)
B2B and online channels	Corporate clients, etc.	Case specific and contract specific	N/A

### (2) Overseas

Classification	Channel	Collection	Incidental expense sharing
Retailer	Retail store	Case specific and contract specific	Case specific cost sharing as determined by mutual agreement
Dealer	General merchandise store, discount store, department store	Case specific and contract specific	Case specific cost sharing as determined by mutual agreement
Distributor	Direct sales to local distributors	Case specific and contract specific	Case specific cost sharing as determined by mutual agreement
B2B and online channels	Corporate clients, etc.	Case specific and contract specific	N/A

## D. Sales strategy

- Expand market leadership based on premium products
- Provide differentiated value to customers through brand, products, and services
- Strengthen marketing activities to boost demand from customer/market

## E. Major customers

In 1H24, major customers (listed alphabetically) included Apple, Deutsche Telekom, Hong Kong Techtronics, Supreme Electronics, and Verizon. Sales to the five major customers accounted for approximately 14% of total sales.

## F. Long-term contracts

As of June 30, 2024, there were no long-term contracts that have a significant impact on the Company's financial statement.



## ***5. Risk management and derivative trading***

### **A. Financial risk management policy**

The Company focuses on minimizing market risk, credit risk, and liquidity risk arising from operating activities. To mitigate these risks, the Company monitors each risk factor and operates corresponding financial risk management policies and programs.

The Company manages financial risks by establishing global financial risk management policies and periodically assessing risks associated with our customers and business partners; and via monitoring foreign exchange hedging and balance of funds.

Meanwhile, the Company manages exchange rate risk via monitoring exchange rates and executing transactions through local finance centers in each major region (United States, United Kingdom, Singapore, China, Brazil, and Russia). Liquidity risk is managed by managing capital as a whole by each region.

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

### **B. Major financial risks**

#### **(1) Market risk**

##### **(Foreign exchange risk)**

The Company operates internationally and is exposed to foreign exchange risks as it conducts transactions in currencies other than the functional currency. Major currencies that are exposed to foreign exchange risk include USD, EUR, and others.

The Company focuses on minimizing the impact of foreign exchange fluctuation by maintaining an equal amount of assets and liabilities denominated in each foreign currency. To minimize foreign exchange positions, the Company's foreign exchange management policy requires transactions for normal business (including imports and exports) and for financing (such as deposits/borrowings) to be in the functional currency or for the cash-in currency to match the cash-out currency. If foreign exchange positions arise, the Company uses bond sales, forward exchanges, etc., to mitigate impacts of exchange-rate fluctuations. While such measures can reduce foreign exchange risk, they cannot remove the risk entirely. The Company efficiently manages foreign exchange risk through regular monitoring and assessments, and speculative foreign exchange transactions are strictly forbidden.

##### **(Interest rate risk)**

Interest rate risk arises from changes in the market interest rate and subsequent fluctuations in cash flows from interest income and expenses from investment and financial activities, mainly in deposits and variable-rate borrowings. The Company employs internal fund sharing to minimize external borrowings and minimize financial costs and uncertainties associated with interest rate changes.

### **(Stock price risk)**

The Company's investment portfolio consists of direct and indirect investments in equity securities 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 June 30, 2024, a price fluctuation of marketable equity securities (listed stocks) of 1% changes 'other comprehensive income' (before income tax) by KRW 66,935 million and 'profit before tax' by KRW 1,351 million. The figures as of the same date in 2023 were KRW 81,526 million and KRW 4,309 million, respectively.

### **(2) 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 sets and manages the client's and counterparty's credit limit, and evaluates their financial credit rating 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, savings, and derivative instruments. To minimize such risk, the Company transacts only with banks that have a strong international credit rating (S&P A and above), and all new transactions with financial institutions with no prior transaction history are carried out after a soundness evaluation, etc. The Company generally enters into a financial agreement with no restrictions, such as debt ratio covenants, provision of collateral, and loans or borrowings repayment. The Company requires separate approval for contracts with restrictions.

The Company estimates that its maximum exposure to credit risk is equivalent to the carrying amount of its financial assets, which has been reflected after deducting the impairment losses.

### **(3) Liquidity risk**

Liquidity risk refers to the possibility of a company having difficulties in fulfilling its obligations related to financial liabilities. Our main sources of liquidity are cash generated by business operations and funds procured from capital market and financial institutions. The main demands on our liquidity include investment for production and R&D, working capital, and dividend payouts.

The nature of our business requires making large investments, so maintaining an adequate liquidity is crucial. We maintain and manage our liquidity by estimating required cash, managing income and expenses, etc.

The Company effectively manages its liquidity risk by periodically forecasting projected cash flows and by utilizing regional cash pooling, which allows for the use of internal funds when an entity in a region lacks liquidity. The cash-pooling program allows sharing of surplus funds among entities and contributes to minimizing liquidity risk and reducing capital operation expenses and financial expenses.

In addition, the Company's headquarters provides payment guarantees to overseas subsidiaries to secure credit limit to brace for potential large liquidity needs. As of the reporting period end date, our investment ratings from international rating agencies Moody's and S&P are Aa2 and AA-, respectively, allowing us to raise capital in the capital market in a timely manner.

#### (4) Capital risk

The purpose of capital management is to protect our capability of continuously providing profit to our shareholders and stakeholders and to maintain a sound capital structure. To this end, the Company monitors capital on the basis of credit rating and the ratio of total liabilities to total equity.

As of June 30, 2024, the figures for total liabilities and total equity are as follows:

(KRW mil)

	Jun 30, 2024	Dec 31, 2023
Total liabilities	102,231,027	92,228,115
Total equity	383,526,671	363,677,865
Total liabilities to equity ratio	26.7%	25.4%

#### C. Derivative instruments and put options

The Company hedges foreign currency positions by trading currency forward contracts of currencies other than won for the purpose of managing foreign exchange risk. Currency forwards are bought through a bank in the purpose of trade and hedging.

As of June 30, 2024, the Company had 3,770 currency forward contracts involving 32 foreign currencies, such as USD and EUR, and the book value of assets and liabilities as well as related gain and loss were as follows:

(KRW mil)

	Assets	Liabilities	Valuation gain	Valuation loss
Currency forwards	104,987	72,295	426,311	333,785

According to the shareholders' agreement signed with Rainbow Robotics, its major shareholder, etc., the Company has the right, within a specific time period, to demand that the major shareholder, etc., sell all or part of their Rainbow Robotics shares to the Company or the third party designated by the Company. Moreover, the major shareholder, etc., of Rainbow Robotics has the right to demand that the Company sell all or part of the Company's Rainbow Robotics shares back to the major shareholder, etc., under certain conditions. Fair value of the above call option as of June 30, 2024, was evaluated by Deloitte Anjin LLC.

Furthermore, Samsung Display (a subsidiary of the Company) may exercise its put option to sell part of its shares of Corning Incorporated back to Corning, according to the stock trade contract with Corning on April 8, 2021.

Samsung Display may exercise its put option to sell all or part of its shares of TCL China Star Optoelectronics Technology Co. Ltd. (CSOT) to TCL Technology Group Corporation (TCL), if CSOT remains unlisted within the listing period, according to the shareholders' agreement executed with TCL and CSOT on April 1, 2021.

Fair value of the above put option as of June 30, 2024, was evaluated by Earnest & Young Global Limited.

## 6. Major contracts and research and development activities

### A. Major contracts

Account	Contract information	Contents
Google	Type	Patent cross-license agreement
	Date	Jan 25, 2014
	Purpose and contents	Secure business flexibility through mutual patent licensing
	Other	Permanent license contract (including patent applications in the next 10 years)
GlobalFoundries Inc.	Type	Process technology license agreement
	Date	Feb 28, 2014
	Purpose and contents	Expand customer base of 14nm process
Google	Type	EMADA
	Date	Feb 27, 2019–Dec 31, 2024 (extended)
	Purpose and contents	Licensing agreement for using Google apps (Play Store, YouTube, etc.) in 32 European countries (EEA)
Ericsson	Type	Patent cross-license agreement
	Date	May 7, 2021
	Purpose and contents	Secure business flexibility through mutual patent licensing
Qualcomm	Type	Patent cross-license agreement
	Date	Jul 6, 2022
	Purpose and contents	Secure business flexibility through mutual patent licensing and signing of covenant not to sue
Huawei	Type	Patent cross-license agreement
	Date	Jul 13, 2022
	Purpose and contents	Secure business flexibility through mutual patent licensing
Nokia	Type	Patent cross-license agreement
	Date	Jan 19, 2023
	Purpose and contents	Secure business flexibility through mutual patent licensing

Information that are trade secrets, such as contract amounts, etc., are not stated herein.

## B. Summary of R&D activities and expenditures

The Company is leading the global market by continuously developing creative and innovative products and industry-leading technology through shifting its way of thinking and understanding customer demand. The Company is doing its utmost to cement its position in the global IT industry and become a worldwide leader in industrial technology by creating and securing next-generation technology.

As of June 30, 2024, the Company's year-to-date R&D expenses were KRW 15,869.5 billion. Among this, KRW 15,869.2 billion was recognized as expenditures, excluding government subsidies and capitalized expenses.

### (R&D expenses)

(KRW mil)

		1H24	2023	2022
Total R&D expenditures		15,869,480	28,352,769	24,929,171
(Government subsidies)		-327	-13,045	-9,973
R&D expenditures		15,869,153	28,339,724	24,919,198
Accounting	Capitalization of development expenses (intangible asset)	-	-	-
	R&D costs (expenses)	15,869,153	28,339,724	24,919,198
R&D expenses/revenue ratio <sup>1)</sup>		10.9%	10.9%	8.2%

Consolidated basis.

1) Calculated using total R&D expenditures, which includes government subsidies.

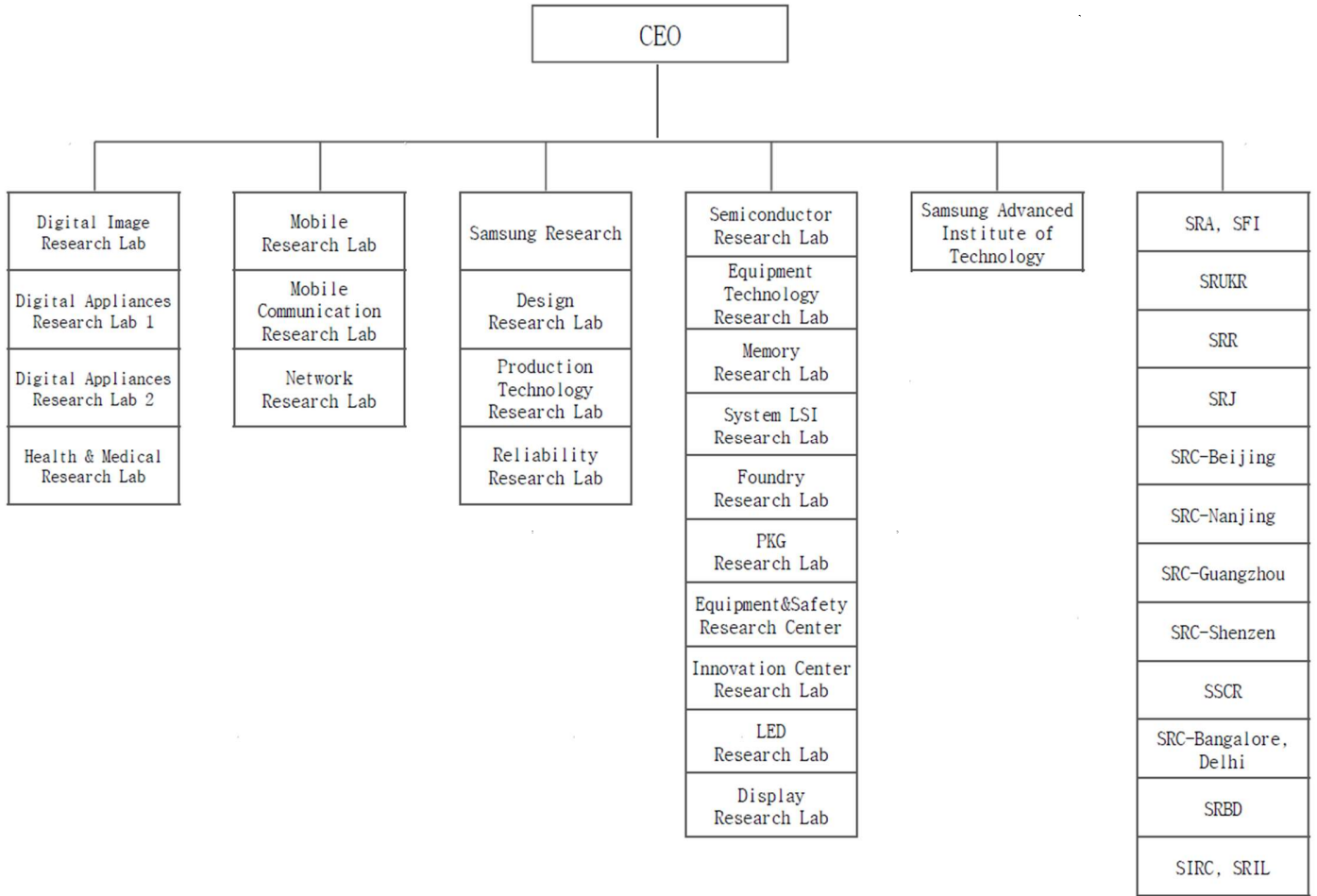
## C. R&D organization and operations

### (Domestic)

The Company's R&D organizations are systematically structured into three levels based on the timing of technological commercialization. R&D teams of business units under each Division develop market-ready technologies with a 1–2 year outlook, while research institutes under each Division, such as Samsung Research and semiconductor research centers, drive development of promising technologies with a mid- to long-term outlook of 3–5 years. Also, Samsung Advanced Institute of Technology (SAIT), our comprehensive research institute, pioneers the development of core technology as seeds for future growth engines. SAIT operates at a company level and offers direction for R&D related to promising growth areas, strengthens technological competitiveness for our main businesses, and performs R&D activities to establish a creative R&D framework.

### (Overseas)

The Company operates R&D organizations in the US (SRA, SFI), Ukraine (SRUKR), Russia (SRR), Japan (SRJ), China (SRC- Beijing, SRC-Nanjing, SRC-Guangzhou, SRC-Shenzhen, SSCR), India (SRI-Bangalore and SRI-Delhi), Bangladesh (SRBD), Israel (SIRC and SRIL), etc., to carry out research activities for product development and basic technological research.



As of June 30, 2024.

## D. R&D results

The Company's key R&D results by organization in 1H24 are as follows:

DX Division	
Research project	Details
Galaxy S24	Release of Galaxy S24 · S24+ · S24 Ultra
Galaxy A	Rollout of A55 5G Release of A35 5G Release of A25 LTE Launch of A15 LTE · 5G
Galaxy Book	Release of Galaxy Book4 Ultra Release of Galaxy Book4 Pro 360 Release of Galaxy Book4 Pro Release of Galaxy Book4 Edge
Neo QLED 8K	Release of mini LED-based UHD & Slim 8K TV
Neo QLED 4K	Release of mini LED-based TV with 3 series, featuring 7 different sizes
Refrigerator	Launch of Bespoke AI hybrid models with energy-efficient power saving mode with application of Peltier elements
Washing machine	Launch of Bespoke Grande AI "OneBody Top-Fit" washer/dryer
Vacuum cleaner	Launch of wet & dry robot vacuum cleaner Bespoke AI Steam for Korean market
RAN S/W package	Completed functional test of vRAN-based 5G RedCap energy-saving technology, an industry's first
DS Division	
Research project	Details
HBM	Developed the industry's first 36GB HBM3E 12H DRAM
SSD	Launch of SSD 990 EVO for consumer devices, offering both functionality and versatility
NAND	Mass produced the industry's first 9th-generation V-NAND
Exynos	Unveiled Exynos 1480, a mobile AP based on state-of-the-art technology
Image sensor	Unveiled HP9, the industry's first 200-megapixel mobile image sensor for telephoto cameras
SDC	
Research project	Details
OLED	Developed Galaxy S24 AMOLED Deployed the 13.4" Round OLED Display in BMW Mini Rollout of Surface Pro 10
QD-Display	Developed 31.5"UHD, 27"QHD, QD-OLED

Please refer to 『Appendix-4. R&D results (detailed)』 for more details.

## 7. Other information

### A. Intellectual property

Intellectual property activities are an integral part of our R&D strategies—SEC registered its first US patent in 1984 and currently holds 255,612 patents around the world. The Company holds the highest number of its patents in the US and aims to address conflicts in the US more effectively.

#### (Number of patents registered in each country)

[As of June 30, 2024]

(Unit: No. of patents)

Country	Korea	US	Europe	China	Japan	Others	Total
No. of patents	59,718	96,015	46,396	26,178	8,891	18,414	255,612

In 1H24, the Company invested KRW 15.9 trillion in R&D and registered 3,776 domestic and 4,641 US patents.

**(Number of patent registrations per year)**

(Unit: No. of patents)

Country	1H24	2023	2022
Korea	3,776	8,909	9,136
US	4,641	8,952	8,490

These patents are mostly related to smartphones, smart TVs, memory, and system LSI products for the Company’s strategic business products or for future use. These patents not only protect the Company’s business but also play a role in keeping similar technology and patents, as well as competitors, in check. Additionally, the Company is focusing on securing early patents in new technologies ahead of others, in order to protect opportunities and have the freedom to operate when entering new businesses.

The Company has licensing agreements with Google (signed in January 2014), Ericsson (May 2021), Qualcomm (July 2022), Huawei (July 2022), and Nokia (January 2023) through which the Company has secured an extensive patent protection in mainstay businesses as well as in the fields of new business.

The Company has also been focusing on securing design patents to protect its original design applied to smartphones and smart TVs. In 1H24, the Company acquired 261 US design patents.

**B. Environmental regulations**

The Company strictly abides by environmental regulations on products and in the workplace, as prescribed by law. In addition, in accordance with “the low carbon green growth policy” of the Korean government, the Company reports “the amount of greenhouse gas emission and energy use” to the government and provides related information to stakeholders by providing various reports, including the Samsung Sustainability Report.

**(Environmental regulation of products)**

Environmental regulation of products are becoming stricter, reflecting the concerns of governments and regulators about potential direct and indirect impact of products to consumers’ health and safety as consumers. Accordingly, the Company is working to minimize the environmental impact throughout the entire life cycle of products from the development stage of components and products to manufacturing, distribution, use, and disposal. The Company offers “Eco-Partner Certification” to suppliers for components free of harmful substances, and runs an “eco-design evaluation” system to reflect eco-friendly elements on products (reduced use of resources, energy and harmful substances, and the use of eco-friendly materials) at the development stage, and operates a “waste electronics collection recycle system” in Europe, North America, Korea, and India for collecting and recycling waste electronics. These activities are in line with domestic and foreign environmental laws on electronics and are a differentiation factor for the Company and its products.

Relevant laws are as follows:

1. law on collection and recycle of waste electronics (e.g., EU WEEE Directive)
2. limit on the use of harmful substances (e.g., EU RoHS Directive, REACH Regulation)
3. regulation on energy efficiency (e.g., EU ErP Directive)



### (Environmental regulations in the workplace)

The Company operates environmental pollution prevention facilities to reduce air pollution, water pollution, and waste disposal, and to minimize the discharge of pollutants, thereby minimizing impact on the surrounding environment.

Environmental management of workplace is supervised by the relevant government authorities. All production facilities, domestic and overseas, have acquired the International Occupational Health and Safety Management System Certification (ISO 14001, ISO 45001) to strengthen compliance.

Major relevant domestic and international laws are as follows:

1. Regulations related to emission of pollutants: Water Quality and Ecosystem Conservation Act, Clean Air Conservation Act, Wastes Control Act, Noise and Vibration Control Act, Environmental Impact Assessment Act
2. Management of greenhouse gas emission: Act on Allocation and Trading of Greenhouse Gas Emission, Framework Act on Carbon Neutrality and Green Growth for Coping with Climate Crisis
3. Others: Toxic Chemicals Control Act, Act on the Registration and Evaluation, etc. of Chemical Substances, Odor Control Law, Soil Environment Conservation Act

### (Greenhouse gas emission and energy consumption management)

According to Article 27 (Greenhouse Gas Target Control of Controlled Emitter) of the Framework Act on Carbon Neutrality and Green Growth for Coping with Climate Crisis, the Company falls under the category of “controlled emitter,” which is an entity designated for greenhouse gas target management. Therefore, in accordance with Article 27 (3) of the above mentioned Act and Article 24 (Reporting and Verification of Amounts of Emissions) of the Act on the Allocation and Trading of Greenhouse-gas Emission Permits, the Company’s greenhouse gas emissions and energy usage, verified by a third-party, have been reported since May 2011 to the relevant authorities and opened to stakeholders. The reported amount of domestic greenhouse gas emission and energy use are provided below:

(Unit: tCO<sub>2</sub>-eq, TJ)

	2023	2022	2021
Greenhouse gas (tCO <sub>2</sub> -eq)	17,339,317	19,285,537	19,267,217
Energy (TJ)	301,616	290,024	274,297

Amounts include those reported by HQ and subsidiaries to the government

Domestic manufacturing facilities, office buildings, buildings owned by the Company, leased buildings, etc.

Reported Greenhouse gas emission excludes ozone depletion substances (ODS).

Amounts may differ based on results of governmental evaluations, etc. on emissions.

From 2015, in accordance with the Article 8 (Designation of Business Entities Eligible for Allocation) of the Act on the Allocation and Trading of Greenhouse-Gas Emission Permits, the Company is an eligible business entity under the Act.

## C. Current status of each division

### [DX Division]

#### □ Industry overview

##### 1) TV Industry

The TV industry has produced continual innovations in picture quality. The black-and-white TV was first developed in 1926 and the color TV in 1954. Further developments in the industry led to the creation of flat panel TVs (LCD), Smart TVs, super-large TVs (QLED/OLED/Neo QLED/8K), Micro LED, and more.

TVs incorporate not only various technologies—chip design, circuit development, image/signal processing, and AI picture quality improvement—but also operating systems and various software to ensure smooth operation of platforms and applications. With the advancement of IoT technology, TVs can control an increasing array of digital appliances, emphasizing the TV as a central screen hub more than ever before.

The TV industry is fiercely competing to achieve the highest picture quality by integrating technologies such as Micro LED, Neo QLED and OLED. The TV market, previously dominated by models in the 55- to 65-inch range, is now fueled by ultra-large products of over 75 inches, which reach up to 98 inches in size.

Surpassing the previous 4K standard, 8K TVs are opening new markets, and TVs are now implementing technologies capable of automatically upscaling HD and FHD to higher levels.

TVs are transforming into a futuristic digital appliance as the industry adopts AI technologies. Firms, working to incorporate AI technologies into TVs, are adopting AI SoCs, optimizing picture and sound quality, and further strengthen the AI function that upscales content from lower definitions. With such technologies, TVs are able to connect digital appliances and conduct real-time monitoring while also offering new services such as maximizing energy efficiency providing an emergency alarm system.

Meanwhile, the way people perceive TV has changed dramatically following the COVID pandemic. Customers use their TVs to not only watch movies, news, or other traditional content, but also to download and enjoy images of artwork that feature in museums throughout the world. Moreover, using TVs for gaming, health-care, online meetings and education services, and other services is also gaining positive feedback from users. We release Lifestyle product lines every year that emphasize design, mobility, and connectivity to meet the evolving needs of customer who value individuality in this rapidly expanding niche market.

##### 2) Mobile industry

The mobile phone industry started with first generation analogue devices in the early 1980s that only supported voice communication and evolved to second generation, digital devices that used technology such as CDMA and GSM, where users could send voice and text messages. Third generation mobile communication standards such as WCDMA allowed users to send photos and videos.

Today, fourth generation LTE mobile communication technology with ultra-high speed data transmission is commonplace. In early 2019, the fifth generation mobile communication service, known as 5G, was launched in Korea and the US and has since been commercialized globally. The sales of 5G smartphones increased from 270 million units in 2020 to 860 million units in 2024, and the spread of 5G communications has accelerated the ecosystem of 5G convergent services, including AI, XR, and the autonomous vehicle and infrastructure industry. (*TechInsights*, June 2024)

The smartphone industry has grown significantly since 2007. In 2024, the smartphone portion of total HHP sales volume was approximately 87%, and the feature phone portion of the total was approximately 13%, with the latter related to demand in emerging markets. For 2024, the penetration rate of smartphones is expected to have reached 53.1%, rising

slightly from 52.5% in 2023 (TechInsights, June 2024).

Also, as the smartphone market shows high saturation, the importance of competitiveness of the overall experience based on software for applications, UX, games, media, digital wallets, AI, security, etc., is rising alongside that of competitive hardware, which includes high-performance APs, high-definition displays, foldable form factors, multiple cameras, sensors, waterproof & dustproof features, biometric recognition, and more.

## □ Market condition

### 1) TV Industry

TV demand slightly decreased from 203.28 million units in 2022 to 201.39 million units in 2023 due to impacts from weak consumer sentiment caused by global uncertainties. In 2024, with growing expectations for a demand increase from sport events such as Paris 2024 Olympics, volume is forecast to grow by 1.5% year on year, resulting in a projected annual volume of approximately 204.41 million units (Omdia, June 2024).

< Market share of TV >

Product	1H24	2023	2022
TV	29.2%	30.1%	29.7%

Global market share in revenue; from Omdia (Figure for 1H24 is a Company estimate.)

### 2) Mobile industry

The smartphone market is expected to increase from 1.15 billion units in 2023 to 1.2 billion units in 2024 due to strengthened consumer sentiment backed by an economic recovery and increased demand for foldable phones. The tablet market, which grew to 180 million units in 2021 backed by increased demand for on-line use during COVID pandemic, decreased to 140 million units in 2023, weighed on by weak replacement demand. In 2024, demand is expected to recover to around 150 million units with the arrival of the replacement cycle. (TechInsights, June 2024)

< Market share of Smartphone >

Product	1H24	2023	2022
Smartphone	19.5%	19.7%	21.7%

Global market share in quantity; data from research firm TechInsights.

## □ Business condition

### 1) TV Industry

We have maintained the top position in the overall TV market for eighteen straight years since claiming the number one spot in 2006.

During this period, the global TV market grew continually until 2011 and reached sales of 249 million units, but the sales volume declined to 233 million units in 2012 and to 201 million units in 2023. In contrast, we have expanded our global market share from 14.2% in 2006 to 30.1% in 2023 thanks to the timely launches of new products and the enhancement of our marketing competitiveness.

In the TV market this year, super big TVs of 75 inches or more and premium TVs priced over USD 1,500 are driving market growth. Such products are especially strong in North America, Europe, Korea, Southeast Asia, and China, but intensifying competition and ongoing increases in panel prices is pressuring profitability.

However, Samsung sees such challenges as opportunities, and we are incorporating cutting-edge AI technologies into numerous segments, including Neo QLED, OLED, and QLED flagship TVs—with a particular focus on 98-inch super big 8K TVs—as well as Lifestyle TVs and soundbars. Through this, we are significantly widening the technological gap with competitors.

Neo QLED 8K TVs for 2024 feature 8K Upscaling Pro to improve low-resolution content (e.g., SD/HD/Full HD) to 8K levels by using Samsung's semiconductor and AI technologies. We also actively integrate AI technologies for sound quality, enabling TVs to recognize and separate dialogue from background sounds for clearer speaking while delivering immersive 3D sounds that track the movement of objects.

Furthermore, TVs featuring AI can conveniently connect to various home appliances such as smartphones and soundbars, offering new value and user experiences beyond traditional TV services. AI-enabled TVs can also adjust and optimize energy usage of connected appliances; and they can also monitor its surroundings with sensors and cameras and notify users who are out of the house. At the same time, all personal information and device security are thoroughly protected by Knox, Samsung's security solution.

With adoption of AI core technologies, we have further established product lineups that are needed to keep expanding the super-big TV market. To lead market growth in 90-inch and over TVs, we expanded our 98-inch lineup to include UHD models, following Neo QLED 8K/4K, QLED. We also strengthened our 85-inch Neo QLED, 83-inch OLED, and 77-inch OLED lineups for the global market

Moreover, we are also extending our future-technology, next-generation micro LED TVs to 114-inch products, following the 89-inch and 101-inch TVs, while commercializing AI-driven text-to-speech technology that converts captions to voice in real time using optical character recognition. In addition, we enhanced Relumino Mode, which amplifies contrast, brightness, and contours for greater accessibility. Through this, we're giving our best efforts to offer TVs for all.

## 2) Mobile industry

SEC has always been at the forefront of the smartphone market, and we led the global market in shipments for thirteen consecutive years. (*TechInsights*, August 2024).

To solidify our status in the overall mobile market, we continue to bolster the competitiveness of our products, including tablets, wearables (smart watches, wireless earphones, etc.), and accessories as well as our content and services businesses, such as digital health and digital wallet.

For smartphones, we establish optimal portfolios for each region, accounting for varying market conditions and the competitive environment, to offer a wide smartphone lineup ranging from mass-market to premium devices. We have been providing premium smartphones and delivering differentiated user experiences that can meet customer needs via our cutting-edge technology, which includes Dynamic AMOLED 2X (120Hz) displays, digital key and content sharing using UWB (ultra wideband), water- and dust-proofing, high-speed cable and wireless charging, ultrasonic fingerprint-on-

display (FoD), cameras specialized for night mode and 8K video recording, and generative AI supported functions such as searches, real-time interpretation/translation, automatic summarization, and photo editing.

In 2019, we secured early leadership in the 5G market with the release of the world's first 5G smartphone while also creating a new market with Galaxy Fold, enabled by foldable displays. In 2020, we launched Galaxy Z Flip, a vertically folding smartphone. The Z Flip series, characterized by its iconic and youthful design, has played a significant role in boosting preference for Galaxy products among women and the younger generation. We continued enhancing unique foldable experiences by leveraging our technology leadership and focusing usability centering on customer values. Thus, we subsequently released the third and fourth generations of the Galaxy Z series, continuing to lead the foldable market.

In January 2024, Samsung unveiled the Galaxy S24 series featuring the introduction of Samsung's Galaxy AI, a technology that offers a whole new experience by transforming how users interact with the world and provides boundless potential through functions such as enhanced search experiences, creative photo editing, real-time translation, and convenient text summarization.

Also, given the hyper-connectivity of our society, we are committed to providing safer service environments for AI and multi-device users based on the strength of our security system.

In addition, we provide richer experiences for our smartphone users with Galaxy Ecosystem products, including tablets that help boost productivity via virtual meetings, multitasking, and note-taking with large-screen display and S Pen; and wearables such as smart watches that provide sophisticated fitness and wellness functions thanks to the adoption of innovative biosensor technologies, while our wireless earphones provide rich, clear sound experiences.

Not content to dwell on our achievements in hardware, we have been focusing on delivering practical and helpful services such as Samsung Wallet (formerly Samsung Pay), Samsung Health, and Bixby. We are advancing Samsung Wallet into a service that can replace physical wallets by offering functionalities that can be used for ID cards, tickets, and more. Samsung Health will strengthen its position as a comprehensive health management platform through new form factors and AI features.

Moreover, we are strengthening strategic partnerships to expand our ecosystem and striving to diversify our revenue structure via SmartThings, Bixby, and cloud, while also enhancing our service businesses based on our extensive global installed base.

We continue to innovate eco-friendly technologies, including those aimed at expanding adoption of recycled materials in our products. A prime example is the adoption of repurposed materials from discarded fishing nets in various projects, starting from the Galaxy S22 series. For Galaxy Z Fold5 and Galaxy Z Flip5, we went beyond plastics and included recycled glass and aluminum, while the Galaxy S24 series incorporates recycled cobalt and rare earth elements.

In addition, Samsung in May 2023 introduced a self-repair program, and we are expanding the program's target models and countries, adding to our efforts to preserve the environment by minimizing e-waste.

Going forward, we will use our industry-leading R&D capabilities to keep providing our customers with new values via continual technological innovations and our thorough preparations for the future.

## [DS Division]

### □ Industry overview

In general, our Semiconductor business is divided into Memory (storage) and System LSI (logical processing). Memory semiconductor is divided into RAM products (random access memory, ones that can be both written on and read) and ROM products (read only memory).

RAM is called volatile memory as any stored information is deleted when the power is turned off. It is used for temporary loading and storage of application programs. ROM is nonvolatile and holds memory even when power is removed; it is used in input/output system, IC cards, and more.

For System LSI products, there are many categories for various applications. SoCs for mobile devices that are equipped with CPUs, GPUs, ISPs (image signal processors), and modems are our major products. The Company manufactures mobile APs for smartphones and tablets, and image sensors.

The Foundry Business makes customized semiconductors for fabless companies based on customer designs. The business resembles OEMs in the traditional manufacturing industry in the sense that companies consign the manufacturing of their products to fabrication plants, also called foundries or fabs. Many integrated device manufacturers have transitioned to fabless players due to the advancement of semiconductor processing technologies and an increased investment burden. Consequently, only a few companies (approximately five) with large capex dominate the overall foundry market.

### □ Market condition

In the Memory market, demand for AI server increased, driven by the expansion of AI investments by cloud service providers along with rising demand for AI in the enterprise on-premise server market. As a result, the market saw robust demand for not only HBM but also conventional DRAM and SSD for server. Meanwhile, demand was relatively weak for PC due to sluggish sell-out, but mobile demand remained solid thanks to increased overseas exports by OEMs in China and inventory buildups by some customers amid prospects of rising memory prices. Demand focusing on server applications continued to trend favorably, and our sales of HBM and DDR5/SSD for server increased thanks to our active response to the demand for high-value-added products for generative AI and improved market prices overall.

In the Foundry market, despite the limited demand recovery for applications such as mobile and automotive, we grew our business thanks to increasing semiconductor demand for AI and industrial HPC, which require advanced technology. In 2H24, with demand growth likely to be led by mobile customers and AI/HPC, cutting-edge advanced technologies will continue to drive our growth. In mid- to long-term, we anticipate delivering sustained growth across overall applications, with the rising demand for mobile application processors and automotive semiconductors

< Market share of DRAM >

Product	1H24	2023	2022
DRAM	42.7%	42.2%	43.1%

Global market share in revenue; data from research firm *DRAMeXchange*. (Figure for 1H24 is a Company estimate.)

### □ Business condition

In the Memory market, we expect server demand to remain strong with the expansion of AI investments by major cloud

service providers. For PC and mobile, demand is likely to retain its momentum thanks to effects of peak seasonality and increased content-per-box driven by the rising number of models featuring on-device AI. However, the demand increase in 2H may be limited, given elevated component inventories in 1H at some customers. Regarding industry supply, chances are rising that conventional bit supply for advanced technology products for PC and mobile applications will be further constrained as capacity concentrates on HBM and server DRAM/SSD to address AI server demand. With strong demand, especially for server, we will actively respond to the demand for high-value-added products for AI; and we will further hone our competitive edge in the HBM3E and high-density DDR5 markets and increase supply for server SSDs to expand sales.

For System LSI, we expect to see growth in the global smartphone market—the business’s primary market—centering on OEMs in China. With rising adoption of on-device AI, we are actively responding to the increased demand for low power/high performance processors and ultra-high pixel image sensors. In SoCs, we launched the industry’s first smartwatch product using 3nm technology and are expanding our lineup of mobile SoCs with enhanced performance for on-device AI and gaming. The development of next-generation technologies for automotive and data-center products is a key goal, and we aim to achieve it by strengthening our partnership with customers. For image sensors, we leveraged our advanced micro pixel technology and mass produced the industry’s first 200-megapixel telephoto camera, enabling differentiated camera resolution and zoom functions. To secure future growth engines, we remain committed to identifying new customers in segments such as automotive, AR, and drones. At the product level, our competitive edge in advanced OLED mDDI technologies contributed to the successful mass production of new models by our major smartphone customers. For pDDI, we are expanding our OLED and TCON (touch controller) businesses in earnest, and in PMIC (power management IC), we are pushing to expand mobile sales and customer diversification, all while expanding our product portfolio for memory applications. Finally, we aim to expand sales by releasing high-performance products to address the ever-increasing needs for smartphone security.

In the Foundry business, we are materializing strategies for each technology and application in line with the changing market while also strengthening competitiveness in our development, manufacturing, and business capabilities. For advanced technologies, we started mass production using GAA 3nm technology in 2022; and we leveraged our accumulated experience to mass produce the second generation 3nm technology 1H24 for wearables. In the second half, we plan to mass produce and ship mobile-use products. For advanced technologies, to ensure continual technological competitiveness, we target the timely development of 2nm technology all as we continue to focus on expanding our customer base. To address demand for mature technologies, we are implementing strategies to improve profitability and ensure long-term utilization through steady development work and investments in specialized technologies. Furthermore, the Company remains focused on optimizing line operations and expanding capacity considering the entire commercialization procedure, from development through to mass production.

## [SDC]

### □ Industry overview

Display refers to screens in electronic devices. Active matrix technology is most commonly used in displays, including OLED (organic light emitting diode), QD-OLED (quantum dot organic light emitting diode), and TFT-LCD (thin film transistor liquid crystal display).

OLED panels use organic materials, which offer sharp contrast and color, high color gamut, and fast response rates. Such differentiating features provide advantages for use in smartphones where display features (multimedia contents, online experience, etc.) are important, and as a result, OLED adoption in the smartphone market is growing rapidly.

The market had raised concerns over the production of high-resolution, durable panels, but we overcame various technological challenges and advanced the business. OLED panels make up for the shortcomings of LCD panels, and they can be increasingly adopted into variable applications in foldables, IT (tablet/notebook PCs), automotives, etc. The OLED market is forecast to keep growing. QD-OLED, a self-emissive display with quantum dots (semiconductor



particles a few nanometers in size) in the panel to maximize color gamut and viewing angle, is capturing attention under expectations that it will lead the premium TV and monitor markets.

### □ Market condition

The market for smartphone display panels is anticipated to slightly decrease to 1.43 billion units in 2024 from 1.44 billion units in 2023. For smartphone-use OLED panels, the market is forecast to grow to 0.8 billion units in 2024 from 0.61 billion units in 2023, and the OLED portion of smartphone panels in 2024 is expected to increase to 55.8% from 42.7% in 2023 (Omdia, July 2024).

The market for large display panels is expected to grow to 0.86 billion units in 2024 from 0.81 billion units in 2023 (Omdia, June 2024).

< Market share of smartphone panel >

Product	1H24	2023	2022
Smartphone panels	41.5%	50.1%	56.7%

Global market share in revenue from research firm Omdia; 1H24 figure is an estimate.

### □ Business condition

The Company has continued to stay atop the mobile OLED market in terms of market share since it successfully commercialized OLED products in 2007, marking a world’s first. We diversified our product group to include displays for foldable products, tablets, watches, laptops, and automotive applications, solidifying our position as the top player in the OLED display market.

With both flexible and rigid OLED, our optimal smartphone product portfolio ranges from mass-market to premium devices as we proactively address customers’ specific needs; and we are recognized as having best-in-class technology through our introduction of foldable and IT(tablet/Note PC) products with differentiated technologies and designs.

In smartphone display market in 2024, we expect competition between panel makers to intensify, especially in high-end segments. We plan to keep expanding sales by maintaining leadership in high-end segments through our differentiated products featuring advanced technologies.

Furthermore, we are diversifying our mobile panel business—which concentrates on smartphones—by ramping up investment in 8.6G IT OLED lines in order to expand into IT, gaming, and auto products and further solidify our business leadership.

For large panel business, we will center capacity on premium TVs and monitors and strengthen business competitiveness by enhancing stability by improving yield and reducing losses.

## [Harman]

### □ Industry overview

Harman competes in the automotive and lifestyle audio industries. The automotive component business accounts for the largest portion of Harman’s business, and it operates business in areas such as digital cockpits, car audio, and telematics.

Consumer view vehicles not only as a mode of transportation, but as an opportunity to enjoy in-cabin experiences. To meet such needs, automotive manufactures are using Harman’s components (e.g. digital cockpits, car audio) to offer more convenient and personally-tailored experiences, focusing on service differentiation.

With the shift towards software-defined vehicles, led by IT transformation of cars, manufacturers are exploring various opportunities by adopting centralized architectures and strengthening software functionalities. This should spark rapid



technological changes in automotive components, and as a result, intensifying competition among component suppliers.

The Lifestyle audio business has two segments: consumer audio and professional audio solutions. And to offer our customers even greater audio experiences, we acquired Roon Labs LLC in 4Q23. Consumer audio products (e.g., true wireless stereo, portable speakers, headphones) were formerly confined to audio playback devices, but thanks to the recent adoption of wireless technologies and integration of AI, they are transforming into technology-centric IT devices. Such changes have prompted IT companies to enter the consumer audio market, which is dominated by traditional audio-focused firms.

The consumer audio market is projected to see significant growth in the segments like TWS headphones, Wi-Fi home speakers, and gaming speakers. In particular, the TWS market, in which mobile manufacturers hold a significant market share, is likely to show the fastest growth rate.

The professional audio solution industry (commercial audio, audio for large venues, etc., special lighting, video control solutions, etc.), is segmented by product and has seen the entrance of numerous companies offering a wide range of products and applications.

#### □ Market condition

We expect instability in the global automotive supply chain, high interest rates, and elevated inflation to gradually normalize in 2024. However, we expect to see continued uncertainties, such as rising raw material prices and a persistent tight monetary policies in major countries caused by geopolitical issues in Europe and the Middle East. Overall, we expect global automobile production in 2024 to decrease by 1%. (S&P Global Light Vehicle Production Forecast, June 2024).

< Market share of digital cockpit >

Product	1H24	2023	2022
Digital cockpits	14.0%	16.5%	17.9%

Digital cockpits refer to the digital automotive component which enables safe driving environment via infotainment system, etc. Figures based on the data (by value) from TechInsights Global market share in revenue; figure for 1H24 is estimate from research firm *TechInsights* and *S&P Global*.

#### □ Business condition

Harman is positioned to stay at the forefront in digital cockpits and car audio markets, which are key markets for in-cabin experiences in automotive component industry. To fortify Harman's position, we will continue to actively address the ongoing IT transformation in vehicles by integrating our technologies, including wireless communication and display, into Harman's automotive business. Amid the shift toward software-defined vehicles, Harman remains committed to elevating customer in-cabin experiences by consistently pursuing the development of distinctive, innovative technologies.

The same factors that Harman relies on within the automotive market will also be used in the consumer audio and professional audio solution market. Having won three Grammy Awards and two Academy Awards, Harman's brands have earned a strong reputation amongst everyday consumers and audiophiles alike. New offerings in up-and-coming segments such as connected wireless and smart audio continue to help bring in new consumers and further enhance brand reputation.

### D. Financial summary, by organization

In 1H24 by organization, DX accounted for 61.2% of revenue with reported revenue of KRW 89,363.6 billion; DS contributed approximately 35.4% with revenue of KRW 51,693.8 billion; SDC was responsible for 8.9% with revenue

of KRW 13,032.6 billion; and Harman contributed 4.7% with revenue of KRW 6,819.3 billion.

For operating profit, DX recorded KRW 6,797.4 billion; DS with KRW 8,365 billion; SDC with KRW 1,350.8 billion; and Harman with KRW 560.9 billion.

(KRW 100 mil)

Organization	Classification	1H24		2023		2022	
		Amount	Portion of corresponding total	Amount	Portion of corresponding total	Amount	Portion of corresponding total
DX Division	Revenue	893,636	61.2%	1,699,923	65.7%	1,824,897	60.4%
	Operating profit	67,974	39.9%	143,847	219.0%	127,461	29.4%
	Total assets	2,520,955	37.1%	2,342,534	37.2%	2,279,669	38.6%
DS Division	Revenue	516,938	35.4%	665,945	25.7%	984,553	32.6%
	Operating profit	83,650	49.1%	-148,795	-226.6%	238,158	54.9%
	Total assets	3,197,814	47.0%	2,871,411	45.6%	2,620,558	44.3%
SDC	Revenue	130,326	8.9%	309,754	12.0%	343,826	11.4%
	Operating profit	13,508	7.9%	55,665	84.8%	59,530	13.7%
	Total assets	774,734	11.4%	792,752	12.6%	737,798	12.5%
Harman	Revenue	68,193	4.7%	143,885	5.6%	132,137	4.4%
	Operating profit	5,609	3.3%	11,737	17.9%	8,805	2.0%
	Total assets	192,794	2.8%	179,566	2.9%	171,023	2.9%

Includes inter-divisional transactions.

#### □ Reasonable allocation of common SG&A (selling general & administrative) expenses and assets

For common SG&A expenses, specific expenses that are allocable to a specific product/model are allocated to Divisions that are responsible for such product/model. However, common expenses that cannot be attributed to a specific product/model category are reasonably allocated throughout the Company based on an allocation standard (expense-to-revenue ratio, number of personnel, etc.).

For common assets, assets that can be directly allocated (inventory assets, fixed assets, investment assets, etc.) are allocated to the corresponding organizational unit. Assets that are commonly managed and cannot be directly allocated are allocated to each Division based on an allocation standard (expense-to-revenue ratio, pre-tax profit, etc.).

### III. Financial Affairs

#### 1. Financial Statements

##### A. Consolidated financial statements

(KRW mil)

Classification	First half of 56th	55th	54th
	June 30, 2024	December 31, 2023	December 31, 2022
<b>Current assets</b>	217,858,103	195,936,557	218,470,581
- Cash and cash equivalents	49,844,405	69,080,893	49,680,710
- Short-term financial instruments	50,921,350	22,690,924	65,102,886
- Other current financial assets	29,758	635,393	443,690
- Trade receivables	43,660,885	36,647,393	35,721,563
- Inventories	55,566,613	51,625,874	52,187,866
- Others	17,835,092	15,256,080	15,333,866
<b>Non-current assets</b>	267,899,595	259,969,423	229,953,926
- Other non-current financial assets	10,562,120	8,912,691	12,802,480
- Investment in associates and joint ventures	12,176,730	11,767,444	10,893,869
- Property, plant, and equipment	194,449,826	187,256,262	168,045,388
- Intangible assets	23,623,280	22,741,862	20,217,754
- Others	27,087,639	29,291,164	17,994,435
<b>Total assets</b>	485,757,698	455,905,980	448,424,507
<b>Current liabilities</b>	84,354,935	75,719,452	78,344,852
<b>Non-current liabilities</b>	17,876,092	16,508,663	15,330,051
<b>Total liabilities</b>	102,231,027	92,228,115	93,674,903
<b>Equity attributable to owners of the parent company</b>	373,669,562	353,233,775	345,186,142
- Capital stock	897,514	897,514	897,514
- Share premium	4,403,893	4,403,893	4,403,893
- Retained earnings	358,035,802	346,652,238	337,946,407
- Others	10,332,353	1,280,130	1,938,328
<b>Non-controlling interests</b>	9,857,109	10,444,090	9,563,462
<b>Total Equity</b>	383,526,671	363,677,865	354,749,604
	Jan–Jun 2024	Jan–Dec 2023	Jan–Dec 2022
<b>Revenue</b>	145,983,903	258,935,494	302,231,360
<b>Operating profit</b>	17,049,887	6,566,976	43,376,630
<b>Profit for the period</b>	16,596,053	15,487,100	55,654,077
- Owners of the parent company	16,263,683	14,473,401	54,730,018
- Non-controlling interests	332,370	1,013,699	924,059
<b>Basic earnings per share (KRW)</b>	2,394	2,131	8,057
<b>Diluted earnings per share (KRW)</b>	2,394	2,131	8,057
Number of companies subject to consolidation accounting	227	233	233

Data shown in conformity with K-IFRS.

Please refer to the footnotes of the 54th–55th Consolidated Audit Report and 56th Half year Consolidated Review Report for the calculation of basic earnings per share (ordinary shares).

## B. Separate financial statements

(KRW mil)

Classification	First half of 56th	55th	54th
	June 30, 2024	December 31, 2023	December 31, 2022
<b>Current assets</b>	85,822,049	68,548,442	59,062,658
- Cash and cash equivalents	7,818,179	6,061,451	3,921,593
- Short-term financial instruments	3,819,491	50,071	137
- Trade receivables	35,819,815	27,363,016	20,503,223
- Inventories	31,861,509	29,338,151	27,990,007
- Others	6,503,055	5,735,753	6,647,698
<b>Non-current assets</b>	231,813,389	228,308,847	201,021,092
- Other non-current financial assets	2,189,910	1,854,503	1,364,608
- Subsidiary, associate, and joint venture investments	57,551,517	57,392,438	57,397,249
- Property, plant and equipment	143,072,339	140,579,161	123,266,986
- Intangible assets	10,834,063	10,440,211	8,561,424
- Others	18,165,560	18,042,533	10,430,825
<b>Total assets</b>	317,635,438	296,857,289	260,083,750
<b>Current liabilities</b>	50,124,508	41,775,101	46,086,047
<b>Non-current liabilities</b>	30,640,186	30,294,414	4,581,512
<b>Total liabilities</b>	80,764,694	72,069,515	50,667,559
- Capital stock	897,514	897,514	897,514
- Share premium	4,403,893	4,403,893	4,403,893
- Retained earnings	231,894,075	219,963,351	204,388,016
- Others	-324,738	-476,984	-273,232
<b>Total Equity</b>	236,870,744	224,787,774	209,416,191
Evaluation method of subsidiary, associate, and joint venture investment securities	Cost methods	Cost methods	Cost methods
	Jan-Jun 2024	Jan-Dec 2023	Jan-Dec 2022
<b>Revenue</b>	104,973,735	170,374,090	211,867,483
<b>Operating profit</b>	9,229,871	-11,526,297	25,319,329
<b>Profit for the period</b>	16,835,854	25,397,099	25,418,778
<b>Basic earnings per share (KRW)</b>	2,479	3,739	3,742
<b>Diluted earnings per share (KRW)</b>	2,479	3,739	3,742

Data shown in conformity with K-IFRS.

Please refer to the footnotes of the 54th–55th Audit Report and 56th Half year Review Report for the calculation of basic earnings per share (ordinary shares).

## 2. Consolidated financial statements

### Samsung Electronics Co., Ltd. and its subsidiaries INTERIM CONSOLIDATED STATEMENTS OF FINANCIAL POSITION

(In millions of Korean won and in thousands of US dollars (Note 2.3))

	Notes	June 30, 2024	December 31, 2023	June 30, 2024	December 31, 2023
		KRW	KRW	USD	USD
<b>Assets</b>					
<b>Current assets</b>					
Cash and cash equivalents	3, 25	49,844,405	69,080,893	36,935,537	51,190,095
Short-term financial instruments	3, 25	50,921,350	22,690,924	37,733,571	16,814,354
Short-term financial assets at amortized cost	3, 25	-	608,281	-	450,746
Short-term financial assets at fair value through profit or loss	3, 4, 25	29,758	27,112	22,051	20,090
Trade receivables	3, 25	43,660,885	36,647,393	32,353,445	27,156,330
Non-trade receivables	3, 25	7,729,562	6,633,248	5,727,735	4,915,348
Prepaid expenses		3,769,456	3,366,130	2,793,230	2,494,359
Inventories	5	55,566,613	51,625,874	41,175,788	38,255,635
Other current assets	3, 25	6,336,074	5,038,838	4,695,137	3,733,863
Assets held-for-sale	28	-	217,864	-	161,441
		<b>217,858,103</b>	<b>195,936,557</b>	<b>161,436,494</b>	<b>145,192,261</b>
<b>Non-current assets</b>					
Financial assets at fair value through other comprehensive income	3, 4, 25	9,202,104	7,481,297	6,818,913	5,543,766
Financial assets at fair value through profit or loss	3, 4, 25	1,360,016	1,431,394	1,007,795	1,060,687
Investments in associates and joint ventures	6	12,176,730	11,767,444	9,023,160	8,719,873
Property, plant and equipment	7	194,449,826	187,256,262	144,090,569	138,760,017
Intangible assets	8	23,623,280	22,741,862	17,505,245	16,852,100
Net defined benefit assets	11	4,258,721	4,905,219	3,155,783	3,634,849
Deferred income tax assets		12,230,605	10,211,797	9,063,083	7,567,112
Other non-current assets	3, 25	10,598,313	14,174,148	7,853,525	10,503,280
		<b>267,899,595</b>	<b>259,969,423</b>	<b>198,518,073</b>	<b>192,641,684</b>
<b>Total assets</b>		<b>485,757,698</b>	<b>455,905,980</b>	<b>359,954,567</b>	<b>337,833,945</b>

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

**Samsung Electronics Co., Ltd. and its subsidiaries**  
**INTERIM CONSOLIDATED STATEMENTS OF FINANCIAL POSITION**

*(In millions of Korean won and in thousands of US dollars (Note 2.3))*

	Notes	June 30, 2024 KRW	December 31, 2023 KRW	June 30, 2024 USD	December 31, 2023 USD
<b>Liabilities and Equity</b>					
<b>Current liabilities</b>					
Trade payables	3, 25	13,113,267	11,319,824	9,717,150	8,388,179
Short-term borrowings	3, 9, 25	10,626,592	7,114,601	7,874,482	5,272,038
Other payables	3, 25	14,496,801	15,324,119	10,742,372	11,355,428
Advances received	14	1,427,722	1,492,602	1,057,966	1,106,043
Withholdings	3, 25	934,763	892,441	692,675	661,314
Accrued expenses	3, 14, 25	27,115,302	26,013,273	20,092,892	19,276,270
Current income tax liabilities		5,103,229	3,358,715	3,781,578	2,488,864
Current portion of long-term liabilities	3, 9, 10, 25	2,114,833	1,308,875	1,567,127	969,898
Provisions	12	7,436,605	6,524,876	5,510,649	4,835,042
Other current liabilities	3, 14, 25	1,985,821	2,308,472	1,471,525	1,710,616
Liabilities held-for-sale	28	-	61,654	-	45,687
		<b>84,354,935</b>	<b>75,719,452</b>	<b>62,508,416</b>	<b>56,109,379</b>
<b>Non-current liabilities</b>					
Debentures	3, 10, 25	20,573	537,618	15,245	398,384
Long-term borrowings	3, 9, 25	3,719,386	3,724,850	2,756,127	2,760,176
Long-term other payables	3, 25	5,401,940	5,488,283	4,002,928	4,066,909
Net defined benefit liabilities	11	497,929	456,557	368,974	338,316
Deferred income tax liabilities		623,074	620,549	461,708	459,837
Long-term provisions	12	3,353,124	2,878,450	2,484,721	2,132,980
Other non-current liabilities	3, 14, 25	4,260,066	2,802,356	3,156,780	2,076,592
		<b>17,876,092</b>	<b>16,508,663</b>	<b>13,246,483</b>	<b>12,233,194</b>
<b>Total liabilities</b>		<b>102,231,027</b>	<b>92,228,115</b>	<b>75,754,899</b>	<b>68,342,573</b>

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

**Samsung Electronics Co., Ltd. and its subsidiaries**  
**INTERIM CONSOLIDATED STATEMENTS OF FINANCIAL POSITION**

*(In millions of Korean won and in thousands of US dollars (Note 2.3))*

	Notes	June 30, 2024	December 31, 2023	June 30, 2024	December 31, 2023
		KRW	KRW	USD	USD
<b>Equity attributable to owners of the parent company</b>					
Preference shares	15	119,467	119,467	88,527	88,527
Ordinary shares	15	778,047	778,047	576,546	576,546
Share premium		4,403,893	4,403,893	3,263,358	3,263,358
Retained earnings	16	358,035,802	346,652,238	265,310,509	256,875,098
Other components of equity	17	10,332,353	1,280,130	7,656,446	948,598
		<b>373,669,562</b>	<b>353,233,775</b>	<b>276,895,386</b>	<b>261,752,127</b>
Non-controlling interests		9,857,109	10,444,090	7,304,282	7,739,245
<b>Total equity</b>		<b>383,526,671</b>	<b>363,677,865</b>	<b>284,199,668</b>	<b>269,491,372</b>
<b>Total liabilities and equity</b>		<b>485,757,698</b>	<b>455,905,980</b>	<b>359,954,567</b>	<b>337,833,945</b>

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

**Samsung Electronics Co., Ltd. and its subsidiaries**  
**INTERIM CONSOLIDATED STATEMENTS OF PROFIT OR LOSS**

*(In millions of Korean won and in thousands of US dollars (Note 2.3))*

	Notes	For the three-month periods ended June 30,				For the six-month periods ended June 30,			
		2024	2023	2024	2023	2024	2023	2024	2023
		KRW	KRW	USD	USD	KRW	KRW	USD	USD
<b>Revenue</b>	26	74,068,302	60,005,533	54,885,849	44,465,102	145,983,903	123,750,904	108,176,510	91,701,487
<b>Cost of sales</b>	18	44,312,026	41,647,190	32,835,952	30,861,263	90,198,358	87,654,283	66,838,489	64,953,288
<b>Gross profit</b>		<b>29,756,276</b>	<b>18,358,343</b>	<b>22,049,897</b>	<b>13,603,839</b>	<b>55,785,545</b>	<b>36,096,621</b>	<b>41,338,021</b>	<b>26,748,199</b>
Selling and administrative expenses	18, 19	19,312,398	17,689,796	14,310,809	13,108,435	38,735,658	34,787,896	28,703,770	25,778,412
<b>Operating profit</b>	26	<b>10,443,878</b>	<b>668,547</b>	<b>7,739,088</b>	<b>495,404</b>	<b>17,049,887</b>	<b>1,308,725</b>	<b>12,634,251</b>	<b>969,787</b>
Other non-operating income	20	318,501	201,176	236,015	149,075	763,782	705,471	565,975	522,766
Other non-operating expense	20	245,496	169,057	181,917	125,274	626,889	373,039	464,535	276,428
Share of net profit of associates and joint ventures	6	198,514	199,941	147,102	148,160	413,347	413,782	306,297	306,619
Financial income	21	3,616,184	4,056,928	2,679,653	3,006,251	7,071,247	8,684,977	5,239,912	6,435,713
Financial expense	21	2,736,237	3,244,540	2,027,597	2,404,258	5,369,307	7,200,541	3,978,746	5,335,721
<b>Profit before income tax</b>		<b>11,595,344</b>	<b>1,712,995</b>	<b>8,592,344</b>	<b>1,269,358</b>	<b>19,302,067</b>	<b>3,539,375</b>	<b>14,303,154</b>	<b>2,622,736</b>
Income tax expense (benefit)	22	1,753,999	(10,576)	1,299,743	(7,837)	2,706,014	241,204	2,005,202	178,736
<b>Profit for the period</b>		<b>9,841,345</b>	<b>1,723,571</b>	<b>7,292,601</b>	<b>1,277,195</b>	<b>16,596,053</b>	<b>3,298,171</b>	<b>12,297,952</b>	<b>2,444,000</b>
<b>Profit attributable to:</b>									
Owners of the parent company		9,642,653	1,547,018	7,145,367	1,146,366	16,263,683	2,948,270	12,051,661	2,184,717
Non-controlling interests		198,692	176,553	147,234	130,829	332,370	349,901	246,291	259,283
<b>Earnings per share</b> <i>(in Korean won and in US dollars)</i>	23								
- Basic		1,419	228	1.05	0.17	2,394	434	1.77	0.32
- Diluted		1,419	228	1.05	0.17	2,394	434	1.77	0.32

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



**Samsung Electronics Co., Ltd. and its subsidiaries**  
**INTERIM CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME**

*(In millions of Korean won and in thousands of US dollars (Note 2.3))*

	Notes	For the three-month periods ended June 30,				For the six-month periods ended June 30,			
		2024	2023	2024	2023	2024	2023	2024	2023
		KRW	KRW	USD	USD	KRW	KRW	USD	USD
<b>Profit for the period</b>		<b>9,841,345</b>	<b>1,723,571</b>	<b>7,292,601</b>	<b>1,277,195</b>	<b>16,596,053</b>	<b>3,298,171</b>	<b>12,297,952</b>	<b>2,444,000</b>
<b>Other comprehensive income (loss)</b>									
<b>Items that will not be reclassified subsequently to profit or loss:</b>									
Gain on valuation of financial assets at fair value through other comprehensive income, net of tax	17	766,674	475,009	568,118	351,990	1,278,153	1,471,490	947,132	1,090,398
Share of other comprehensive income (loss) of associates and joint ventures, net of tax	17	(7,498)	(7,191)	(5,556)	(5,329)	(20,316)	22,697	(15,054)	16,819
Remeasurement of net defined benefit liabilities (assets), net of tax	17	(28,458)	(102,927)	(21,088)	(76,271)	(110,701)	(350,551)	(82,031)	(259,764)
<b>Items that may be reclassified subsequently to profit or loss:</b>									
Share of other comprehensive income (loss) of associates and joint ventures, net of tax	17	79,547	(50,332)	58,946	(37,297)	132,174	85,428	97,943	63,303
Foreign currency translation differences for foreign operations, net of tax	17	3,516,464	(403,003)	2,605,759	(298,632)	8,031,444	4,653,884	5,951,434	3,448,606
Gain (loss) on valuation of cash flow hedge derivatives	17	(37,347)	4,700	(27,675)	3,483	(26,420)	12,808	(19,578)	9,491
<b>Other comprehensive income (loss) for the period, net of tax</b>		<b>4,289,382</b>	<b>(83,744)</b>	<b>3,178,504</b>	<b>(62,056)</b>	<b>9,284,334</b>	<b>5,895,756</b>	<b>6,879,846</b>	<b>4,368,853</b>
<b>Total comprehensive income for the period</b>		<b>14,130,727</b>	<b>1,639,827</b>	<b>10,471,105</b>	<b>1,215,139</b>	<b>25,880,387</b>	<b>9,193,927</b>	<b>19,177,798</b>	<b>6,812,853</b>
<b>Comprehensive income attributable to:</b>									
Owners of the parent company		13,806,646	1,474,638	10,230,956	1,092,731	25,340,917	8,761,401	18,778,042	6,492,344
Non-controlling interests		324,081	165,189	240,149	122,408	539,470	432,526	399,756	320,509

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

**Samsung Electronics Co., Ltd. and its subsidiaries**  
**INTERIM CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY**

(In millions of Korean won)

For the six-month period ended June 30, 2024	Note s	Preferen ce shares	Ordinar y shares	Share premium	Retained earnings	Other compon ents of equity	Equity attributabl e to owners of the parent company	Non- controllin g interests	Total
<b>Balance as of January 1, 2024</b>		119,467	778,047	4,403,893	346,652,238	1,280,130	353,233,775	10,444,090	363,677,865
Profit for the period		-	-	-	16,263,683	-	16,263,683	332,370	16,596,053
Gain on valuation of financial assets at fair value through other comprehensive income, net of tax	17	-	-	-	25,011	1,113,660	1,138,671	139,482	1,278,153
Share of other comprehensive income (loss) of associates and joint ventures, net of tax	17	-	-	-	-	118,196	118,196	(6,338)	111,858
Foreign currency translation differences for foreign operations, net of tax		-	-	-	-	7,958,021	7,958,021	73,423	8,031,444
Remeasurement of net defined benefit liabilities (assets), net of tax	17	-	-	-	-	(111,234)	(111,234)	533	(110,701)
Loss on valuation of cash flow hedge derivatives	17	-	-	-	-	(26,420)	(26,420)	-	(26,420)
<b>Total comprehensive income for the period</b>		-	-	-	16,288,694	9,052,223	25,340,917	539,470	25,880,387
Dividends declared		-	-	-	(4,905,130)	-	(4,905,130)	(1,083,758)	(5,988,888)
Capital transactions under common control		-	-	-	-	-	-	(4,489)	(4,489)
Changes in consolidated entities		-	-	-	-	-	-	(38,204)	(38,204)
<b>Total transactions with owners</b>		-	-	-	(4,905,130)	-	(4,905,130)	(1,126,451)	(6,031,581)
<b>Balance as of June 30, 2024</b>		119,467	778,047	4,403,893	358,035,802	10,332,353	373,669,562	9,857,109	383,526,671

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

**Samsung Electronics Co., Ltd. and its subsidiaries**  
**INTERIM CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY**

(In thousands of US dollars (Note 2.3))

For the six-month period ended June 30, 2024	Note	Preference shares	Ordinary shares	Share premium	Retained earnings	Other components of equity	Equity attributable to owners of the parent company	Non-controlling interests	Total
<b>Balance as of January 1, 2024</b>		88,527	576,546	3,263,358	256,875,098	948,598	261,752,127	7,739,245	269,491,372
Profit for the period		-	-	-	12,051,661	-	12,051,661	246,291	12,297,952
Gain on valuation of financial assets at fair value through other comprehensive income, net of tax	17	-	-	-	18,533	825,241	843,774	103,358	947,132
Share of other comprehensive income (loss) of associates and joint ventures, net of tax	17	-	-	-	-	87,585	87,585	(4,696)	82,889
Foreign currency translation differences for foreign operations, net of tax		-	-	-	-	5,897,026	5,897,026	54,408	5,951,434
Remeasurement of net defined benefit liabilities (assets), net of tax	17	-	-	-	-	(82,426)	(82,426)	395	(82,031)
Loss on valuation of cash flow hedge derivatives	17	-	-	-	-	(19,578)	(19,578)	-	(19,578)
<b>Total comprehensive income for the period</b>		-	-	-	<b>12,070,194</b>	<b>6,707,848</b>	<b>18,778,042</b>	<b>399,756</b>	<b>19,177,798</b>
Dividends declared		-	-	-	(3,634,783)	-	(3,634,783)	(803,083)	(4,437,866)
Capital transactions under common control		-	-	-	-	-	-	(3,326)	(3,326)
Changes in consolidated entities		-	-	-	-	-	-	(28,310)	(28,310)
<b>Total transactions with owners</b>		-	-	-	<b>(3,634,783)</b>	-	<b>(3,634,783)</b>	<b>(834,719)</b>	<b>(4,469,502)</b>
<b>Balance as of June 30, 2024</b>		<b>88,527</b>	<b>576,546</b>	<b>3,263,358</b>	<b>265,310,509</b>	<b>7,656,446</b>	<b>276,895,386</b>	<b>7,304,282</b>	<b>284,199,668</b>

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

**Samsung Electronics Co., Ltd. and its subsidiaries**  
**INTERIM CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY**

(In millions of Korean won)

For the six-month period ended June 30, 2023	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
<b>Balance as of January 1, 2023</b>		119,467	778,047	4,403,893	337,946,407	1,938,328	345,186,142	9,563,462	354,749,604
Profit for the period		-	-	-	2,948,270	-	2,948,270	349,901	3,298,171
Gain (loss) on valuation of financial assets at fair value through other comprehensive income, net of tax	17	-	-	-	2,321,108	(897,106)	1,424,002	47,488	1,471,490
Share of other comprehensive income of associates and joint ventures, net of tax	17	-	-	-	-	104,471	104,471	3,654	108,125
Foreign currency translation differences for foreign operations, net of tax		-	-	-	-	4,622,266	4,622,266	31,618	4,653,884
Remeasurement of net defined benefit liabilities (assets), net of tax	17	-	-	-	-	(350,415)	(350,415)	(136)	(350,551)
Gain on valuation of cash flow hedge derivatives	17	-	-	-	-	12,807	12,807	1	12,808
<b>Total comprehensive income for the period</b>		-	-	-	5,269,378	3,492,023	8,761,401	432,526	9,193,927
Dividends declared		-	-	-	(4,905,130)	-	(4,905,130)	(61,116)	(4,966,246)
Capital transactions under common control		-	-	-	-	-	-	(825)	(825)
Others		-	-	-	-	-	-	(834)	(834)
<b>Total transactions with owners</b>		-	-	-	(4,905,130)	-	(4,905,130)	(62,775)	(4,967,905)
<b>Balance as of June 30, 2023</b>		119,467	778,047	4,403,893	338,310,655	5,430,351	349,042,413	9,933,213	358,975,626

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

**Samsung Electronics Co., Ltd. and its subsidiaries**  
**INTERIM CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY**

(In thousands of US dollars (Note 2.3))

For the six-month period ended June 30, 2023	Notes	Preferen ce shares	Ordinar y shares	Share premium	Retained earnings	Other componen ts of equity	Equity attributabl e to owners of the parent company	Non- controllin g interests	Total
<b>Balance as of January 1, 2023</b>		88,527	576,546	3,263,358	250,423,932	1,436,333	255,788,696	7,086,685	262,875,381
Profit for the period		-	-	-	2,184,717	-	2,184,717	259,283	2,444,000
Gain (loss) on valuation of financial assets at fair value through other comprehensive income, net of tax	17	-	-	-	1,719,980	(664,771)	1,055,209	35,189	1,090,398
Share of other comprehensive income of associates and joint ventures, net of tax	17	-	-	-	-	77,415	77,415	2,707	80,122
Foreign currency translation differences for foreign operations, net of tax		-	-	-	-	3,425,176	3,425,176	23,430	3,448,606
Remeasurement of net defined benefit liabilities (assets), net of tax	17	-	-	-	-	(259,663)	(259,663)	(101)	(259,764)
Gain on valuation of cash flow hedge derivatives	17	-	-	-	-	9,490	9,490	1	9,491
<b>Total comprehensive income for the period</b>		-	-	-	<b>3,904,697</b>	<b>2,587,647</b>	<b>6,492,344</b>	<b>320,509</b>	<b>6,812,853</b>
Dividends declared		-	-	-	(3,634,783)	-	(3,634,783)	(45,288)	(3,680,071)
Capital transactions under common control		-	-	-	-	-	-	(611)	(611)
Others		-	-	-	-	-	-	(618)	(618)
<b>Total transactions with owners</b>		-	-	-	<b>(3,634,783)</b>	-	<b>(3,634,783)</b>	<b>(46,517)</b>	<b>(3,681,300)</b>
<b>Balance as of June 30, 2023</b>		<b>88,527</b>	<b>576,546</b>	<b>3,263,358</b>	<b>250,693,846</b>	<b>4,023,980</b>	<b>258,646,257</b>	<b>7,360,677</b>	<b>266,006,934</b>

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

**Samsung Electronics Co., Ltd. and its subsidiaries**  
**INTERIM CONSOLIDATED STATEMENTS OF CASH FLOWS**

*(In millions of Korean won and in thousands of US dollars (Note 2.3))*

	Notes	For the six-month periods ended June 30,			
		2024 KRW	2023 KRW	2024 USD	2023 USD
<b>Operating activities</b>					
Profit for the period		16,596,053	3,298,171	12,297,952	2,444,000
Adjustments	24	18,787,796	21,958,025	13,922,071	16,271,263
Changes in assets and liabilities arising from operating activities	24	(4,247,682)	(8,273,365)	(3,147,603)	(6,130,702)
<b>Cash generated from operations</b>		<b>31,136,167</b>	<b>16,982,831</b>	<b>23,072,420</b>	<b>12,584,561</b>
Interest received		1,884,668	2,429,443	1,396,570	1,800,258
Interest paid		(321,567)	(441,850)	(238,287)	(327,418)
Dividends received		199,143	52,618	147,568	38,991
Income tax paid		(4,136,695)	(4,561,353)	(3,065,359)	(3,380,039)
<b>Net cash provided by operating activities</b>		<b>28,761,716</b>	<b>14,461,689</b>	<b>21,312,912</b>	<b>10,716,353</b>
<b>Investing activities</b>					
Net decrease (increase) in short-term financial instruments		(26,295,541)	43,879,546	(19,485,435)	32,515,476
Net decrease in short-term financial assets at amortized cost		620,858	416,095	460,066	308,333
Net increase in short-term financial assets at fair value through profit or loss		(2,629)	3,770	(1,948)	2,794
Disposal of long-term financial instruments		4,100,008	4,491,705	3,038,174	3,328,428
Acquisition of long-term financial instruments		(129,053)	(534)	(95,630)	(396)
Disposal of financial assets at fair value through other comprehensive income		176,068	3,750,752	130,469	2,779,370
Acquisition of financial assets at fair value through other comprehensive income		(131,218)	(20,013)	(97,235)	(14,830)
Disposal of financial assets at fair value through profit or loss		185,029	38,818	137,110	28,765
Acquisition of financial assets at fair value through profit or loss		(30,459)	(69,368)	(22,571)	(51,403)
Disposal of investment in associates and joint ventures		18,965	17,839	14,053	13,219
Acquisition of investment in associates and joint ventures		(9,342)	(65,182)	(6,923)	(48,301)
Disposal of property, plant and equipment		46,452	67,844	34,422	50,274
Acquisition of property, plant and equipment		(25,362,271)	(29,373,990)	(18,793,866)	(21,766,617)
Disposal of intangible assets		15,869	11,253	11,759	8,339
Acquisition of intangible assets		(1,382,199)	(1,620,300)	(1,024,233)	(1,200,669)
Cash inflow from disposal of held-for-sale assets		101,563	-	75,260	-
Cash outflow from other investing activities		(53,085)	(505,671)	(39,336)	(374,711)
<b>Net cash provided by (used in) investing activities</b>		<b>(48,130,985)</b>	<b>21,022,564</b>	<b>(35,665,864)</b>	<b>15,578,071</b>

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

**Samsung Electronics Co., Ltd. and its subsidiaries**  
**INTERIM CONSOLIDATED STATEMENTS OF CASH FLOWS**

*(In millions of Korean won and in thousands of US dollars (Note 2.3))*

	Note s	For the six-month periods ended June 30,			
		2024	2023	2024	2023
		KRW	KRW	USD	USD
<b>Financing activities</b>					
Net increase (decrease) in short-term borrowings		3,499,218	(1,503,980)	2,592,979	(1,114,474)
Increase in long-term borrowings		336,764	193,279	249,548	143,223
Repayment of debentures and long-term borrowings		(693,360)	(543,400)	(513,791)	(402,668)
Dividends paid		(5,975,749)	(4,905,792)	(4,428,130)	(3,635,274)
Transactions with non-controlling interests		(4,489)	(827)	(3,327)	(613)
<b>Net cash used in financing activities</b>		<b>(2,837,616)</b>	<b>(6,760,720)</b>	<b>(2,102,721)</b>	<b>(5,009,806)</b>
Effect of foreign exchange rate changes		2,970,397	1,515,532	2,201,115	1,123,034
<b>Net increase (decrease) in cash and cash equivalents</b>		<b>(19,236,488)</b>	<b>30,239,065</b>	<b>(14,254,558)</b>	<b>22,407,652</b>
<b>Cash and cash equivalents, beginning of the period</b>		<b>69,080,893</b>	<b>49,680,710</b>	<b>51,190,095</b>	<b>36,814,236</b>
<b>Cash and cash equivalents, end of the period</b>		<b>49,844,405</b>	<b>79,919,775</b>	<b>36,935,537</b>	<b>59,221,888</b>

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

### 3. Notes to consolidated financial statements

#### 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: DX, DS, SDC and Harman. DX (Device eXperience) division comprises businesses for digital televisions, refrigerators, smartphones and communication systems. DS (Device Solutions) division comprises businesses for memory, foundry, and system Large Scale Integration (LSI). SDC includes display panels products. Harman division includes connected car systems, audio and visual products, enterprise automation solutions and connected services. SEC 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 226 subsidiaries, including Samsung Display Co., Ltd. and Samsung Electronics America Inc. The Company also applies the equity method of accounting for its 37 associates and joint ventures, including Samsung Electro-Mechanics Co., Ltd.

##### 1.2 Consolidated Subsidiaries

The consolidated subsidiaries as of June 30, 2024 are as follows:

Region	Subsidiaries	Business	Percentage of ownership (%) <sup>(*)</sup>
	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)	Research and Development (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
	Joyent, Inc.	Cloud services	100.0
America	SmartThings, Inc.	Sale of smart home electronics	100.0
	TeleWorld Solutions, Inc. (TWS)	Installation of network devices	100.0
	Samsung Semiconductor, Inc. (SSI)	Sale of semiconductor and display panels	100.0
	Samsung Federal, Inc. (SFI)	R&D	100.0
	Samsung Austin Semiconductor LLC. (SAS)	Manufacture of semiconductors	100.0
	Samsung Oak Holdings, Inc. (SHI)	Management of overseas subsidiaries	100.0
	SEMES America, Inc.	Maintenance of semiconductor equipment	100.0
	Samsung Display America Holdings, Inc. (SDAH)	Management of overseas subsidiaries	100.0
	eMagin Corporation	Development and manufacture of display panels	100.0
	Samsung Electronics Canada, Inc. (SECA)	Sale of electronic devices	100.0
	AdGear Technologies Inc.	Digital advertising platforms	100.0

<sup>(\*)</sup> Ownership represents the Company’s ownership of the voting rights in each entity, including subsidiaries’ ownerships.



<b>Region</b>	<b>Subsidiaries</b>	<b>Business</b>	<b>Percentage of ownership (%)<sup>(*)</sup></b>
	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, SA de CV (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
	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
America	Harman International Industries, Inc.	Management of overseas subsidiaries	100.0
	Harman Becker Automotive Systems, Inc.	Manufacture and sale of audio products and 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 and R&D	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 and R&D	100.0
	Roon Labs, LLC.	Sale of audio products	100.0
	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

<sup>(\*)</sup> Ownership represents the Company's ownership of the voting rights in each entity, including subsidiaries' ownerships.

Region	Subsidiaries	Business	Percentage of ownership (%) <sup>(*)</sup>
	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, Unipessoal, Lda. (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 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
	SAMSUNG 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 R&D Institute Ukraine (SRUKR)	R&D	100.0
	Samsung Electronics Central Eurasia LLP (SECE)	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
	Samsung Electronics Uzbekistan Ltd. (SEUZ)	Marketing	100.0

(\*) Ownership represents the Company's ownership of the voting rights in each entity, including subsidiaries' ownerships.

<b>Region</b>	<b>Subsidiaries</b>	<b>Business</b>	<b>Percentage of ownership (%)<sup>(*)</sup></b>
	AKG Acoustics GmbH	Manufacture and sale of audio products	100.0
	Apostera UA, LLC	Connected Service Provider	100.0
	Harman Audio Iberia Espana Sociedad Limitada	Sale of audio products	100.0
	Harman Becker Automotive Systems GmbH	Manufacture and sale of audio products and 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 and 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 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
Europe/CIS	Harman Deutschland GmbH	Sale of audio products	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 and R&D	100.0
	Harman International Romania SRL	R&D	100.0
	Harman Management GmbH	Management of overseas subsidiaries	100.0
	Harman Professional Kft	Manufacture of audio products and R&D	100.0
	Harman Professional Denmark ApS	Sale of audio products and R&D	100.0
	Red Bend Software SAS	Software design	100.0
	Studer Professional Audio GmbH	Sale of audio products and R&D	100.0
	Harman Connected Services OOO	Connected service provider	100.0
	Harman RUS CIS LLC	Sale of audio products	100.0

(\*) Ownership represents the Company's ownership of the voting rights in each entity, including subsidiaries' ownerships.

Region	Subsidiaries	Business	Percentage of ownership (%) <sup>(*)</sup>
Middle East & Africa	Samsung Gulf Electronics Co., Ltd. (SGE)	Sale of electronic devices	100.0
	Samsung Electronics Turkiye (SETK)	Sale of electronic devices	100.0
	Samsung Electronics Industry and Commerce Ltd. (SETK-P)	Manufacture 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)	Management of overseas subsidiaries	100.0
	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
	Red Brick Lane Marketing Solutions Pvt. Ltd.	Marketing	100.0
	Samsung Display Noida Private Limited (SDN)	Manufacture of display panels	100.0
	Samsung R&D Institute India-Bangalore Private Limited (SRI-Bangalore)	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	

<sup>(\*)</sup> Ownership represents the Company's ownership of the voting rights in each entity, including subsidiaries' ownerships.

Region	Subsidiaries	Business	Percentage of ownership (%) <sup>(*)</sup>
Asia (Excluding China)	Samsung Electronics Japan Co., Ltd. (SEJ)	Sale of electronic devices	100.0
	Harman Connected Services Corp. India Pvt. Ltd.	Connected service provider	100.0
	Harman International (India) Private Limited	Sale of audio products and R&D	100.0
	Harman International Industries PTY Ltd.	Management of overseas subsidiaries	100.0
	Harman International (Thailand) Co., Ltd.	Manufacturing and sale of audio products	100.0
	Harman International Japan Co., Ltd.	Sale of audio products and 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
	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)	R&D	100.0
	Tianjin Samsung Telecom Technology Co., Ltd. (TSTC)	Manufacture of communication equipment	90.0
	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
	SEMES (XIAN) Co., Ltd.	Semiconductor/FPD equipment services	100.0
	Samsung Semiconductor Investment L.P. I	Technology business, Venture capital investments	99.0
	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 and 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 and R&D	100.0
	Harman Technology (Shenzhen) Co., Ltd.	Sale of audio products and R&D	100.0

<sup>(\*)</sup> Ownership represents the Company's ownership of the voting rights in each entity, including subsidiaries' ownerships.

Region	Subsidiaries	Business	Percentage of ownership (%) <sup>(*)</sup>
Domestic	Samsung Display Co., Ltd.	Manufacture and sale of display panels	84.8
	SU Materials	Manufacture of display panel 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 Co., Ltd.	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
	Stella Forest of Hope	Manufacture of food	100.0
	Mirero System Co., Ltd.	Development and supply of semiconductor process defect and quality control software	99.9
	Harman International Korea	Software development and supply	100.0
	Samsung Venture Capital Union #21	Venture capital investments in technology business	99.0
	Samsung Venture Capital Union #22	Technology business, Venture capital investments	99.0
	Samsung Venture Capital Union #26	Venture capital investments in technology business	99.0
	Samsung Venture Capital Union #28	Venture capital investments in technology business	99.0
	Samsung Venture Capital Union #29	Venture capital investments in technology business	99.0
	Samsung Venture Capital Union #32	Venture capital investments in technology business	99.0
	Samsung Venture Capital Union #33	Venture capital investments in technology business	99.0
	Samsung Venture Capital Union #37	Venture capital investments in technology business	99.0
	Samsung Venture Capital Union #40	Venture capital investments in technology business	99.0
	Samsung Venture Capital Union #42	Venture capital investments in technology business	99.0
	Samsung Venture Capital Union #43	Venture capital investments in technology business	99.0
	Samsung Venture Capital Union #45	Venture capital investments in technology business	99.0
	Samsung Venture Capital Union #52	Venture capital investments in technology business	99.0
	Samsung Venture Capital Union #55	Venture capital investments in technology business	99.0
	Samsung Venture Capital Union #56	Venture capital investments in technology business	99.0
	Samsung Venture Capital Union #57	Venture capital investments in technology business	99.0
	Samsung Venture Capital Union #62	Venture capital investments in technology business	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
	Semiconductor Ecosystem Private Equity Trust	Investment on semiconductor industry	66.7

<sup>(\*)</sup> Ownership represents the Company's ownership of the voting rights in each entity, including subsidiaries' ownerships.

### 1.3 Summary of Financial Data of Major Consolidated Subsidiaries

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

(1) 2024

<i>(In millions of Korean won)</i>	June 30, 2024					
	As of June 30, 2024		For the three-month period ended		For the six-month period ended	
	Assets	Liabilities	Sales	Profit (loss)	Sales	Profit (loss)
<b>Major subsidiaries<sup>(*)</sup></b>						
Samsung Display Co., Ltd.	62,704,147	7,140,090	6,659,416	1,247,039	11,076,185	3,235,781
Samsung Electronics America, Inc. (SEA)	46,575,075	17,470,901	9,258,155	13,281	20,060,311	333,976
Samsung Asia Pte. Ltd. (SAPL)	28,774,139	314,506	-	347,682	-	4,615,718
Samsung Austin Semiconductor LLC. (SAS)	22,565,941	12,687,683	1,126,761	118,704	2,174,154	256,455
Harman and its subsidiaries <sup>(**)</sup>	19,279,412	6,245,351	3,610,314	222,058	6,798,739	403,492
Samsung (China) Semiconductor Co., Ltd. (SCS)	17,266,621	880,604	2,958,754	366,322	6,021,423	644,438
Samsung Semiconductor, Inc. (SSI)	16,180,890	8,949,907	10,840,038	129,864	17,726,774	201,202
Samsung (CHINA) Investment Co., Ltd. (SCIC)	13,415,739	12,878,393	615,345	(45,111)	1,439,698	11,616
Samsung Electronics Vietnam THAINGUYEN Co., Ltd. (SEVT)	11,805,327	3,220,541	7,453,338	563,088	18,488,988	1,518,320
Samsung India Electronics Private Ltd. (SIEL)	8,882,136	3,412,625	4,428,545	274,906	8,902,510	760,005
Samsung Electronics Europe Holding Cooperatief U.A. (SEEH)	8,615,408	3,201,747	-	46,942	-	121,277
Samsung Electronics Vietnam Co., Ltd. (SEV)	7,786,353	2,881,368	5,267,889	522,739	10,950,270	927,552
Samsung Display Vietnam Co., Ltd. (SDV)	7,508,214	2,522,498	5,529,521	211,865	9,109,742	379,724
Shanghai Samsung Semiconductor Co., Ltd. (SSS)	7,426,792	6,874,774	8,632,773	119,339	15,877,961	232,228
Samsung Eletronica da Amazonia Ltda. (SEDA)	5,047,383	1,652,704	2,053,934	61,806	4,181,008	213,082
Samsung Electronics HCMC CE Complex Co., Ltd. (SEHC)	4,482,413	917,382	1,782,722	59,062	3,468,330	114,139
Samsung Electronics (UK) Ltd. (SEUK)	2,971,962	1,969,743	1,392,604	(29,123)	3,055,309	15,459
Samsung Electronics Europe Logistics B.V. (SELS)	2,766,924	1,807,201	4,241,830	272,349	8,552,516	738,262
Samsung International, Inc. (SII)	2,722,724	754,830	1,981,732	216,043	3,639,536	360,842
Thai Samsung Electronics Co., Ltd. (TSE)	2,369,807	619,525	1,107,584	1,442	2,353,788	31,929
SEMES Co., Ltd.	2,225,131	620,360	669,179	40,077	1,245,234	77,044
Samsung Electronics Taiwan Co., Ltd. (SET)	2,224,736	1,494,356	1,400,362	7,395	2,893,505	59,848
Samsung Electronics Mexico S.A. De C.V. (SEM)	2,143,918	1,013,797	1,090,802	(14,602)	2,184,702	26,176
Samsung Electronics GmbH (SEG)	2,093,728	2,084,945	1,507,625	(83,026)	3,311,558	(58,863)
Samsung Electronics Benelux B.V. (SEBN)	1,873,216	715,850	662,554	(38,487)	1,510,062	31,517

<sup>(\*)</sup> Summary of financial information is based on separate financial statements of each subsidiary.

<sup>(\*\*)</sup> Consolidated financial data of an intermediate company that includes Harman International Industries, Inc. and its subsidiaries.

(2) 2023

(In millions of Korean won)	June 30, 2023					
	As of December 31, 2023		For the three-month period ended		For the six-month period ended	
	Assets	Liabilities	Sales	Profit (loss)	Sales	Profit (loss)
<b>Major subsidiaries<sup>(*)</sup></b>						
Samsung Display Co., Ltd.	65,328,568	7,266,213	5,444,771	871,621	11,035,413	2,404,779
Samsung Electronics America, Inc. (SEA)	41,926,899	15,322,780	9,157,280	79,508	19,977,552	294,772
Samsung Asia Pte. Ltd. (SAPL)	22,234,942	282,614	-	333,661	-	6,966,849
Harman and its subsidiaries <sup>(*)</sup>	17,956,557	6,009,675	3,488,999	205,076	6,651,475	285,899
Samsung Austin Semiconductor LLC. (SAS)	16,714,945	7,791,914	1,136,235	148,327	2,091,445	252,445
Samsung (China) Semiconductor Co., Ltd. (SCS)	15,808,283	870,453	2,440,992	203,913	5,011,167	530,735
Samsung Semiconductor, Inc. (SSI)	12,796,440	6,276,293	5,113,436	55,475	10,076,971	182,461
Samsung Electronics Vietnam THANGUYEN Co., Ltd. (SEVT)	12,554,481	3,593,527	6,729,383	870,408	15,346,957	1,166,442
Samsung (CHINA) Investment Co., Ltd. (SCIC)	10,222,557	8,797,991	702,653	12,754	1,574,264	177,969
Samsung Electronics Europe Holding Cooperatief U.A. (SEEH)	9,660,481	4,585,806	-	23,610	-	32,085
Samsung India Electronics Private Ltd. (SIEL)	7,738,259	3,373,730	3,499,445	235,083	7,313,363	568,363
Samsung Display Vietnam Co., Ltd. (SDV)	7,383,485	1,570,459	5,025,494	120,439	10,213,581	570,535
Samsung Electronics Vietnam Co., Ltd. (SEV)	7,301,860	2,215,062	4,337,615	447,372	10,033,911	910,213
Samsung Eletronica da Amazonia Ltda. (SEDA)	5,542,627	1,587,911	1,738,745	32,413	3,654,447	164,645
Shanghai Samsung Semiconductor Co., Ltd. (SSS)	5,262,086	4,552,030	3,669,230	50,856	6,589,203	114,934
Samsung Electronics HCMC CE Complex Co., Ltd. (SEHC)	4,043,677	843,736	1,598,461	153,715	3,095,852	352,241
Thai Samsung Electronics Co., Ltd. (TSE)	3,039,379	640,512	1,183,524	96,887	2,402,275	185,939
Samsung Electronics (UK) Ltd. (SEUK)	2,902,722	1,976,067	1,323,540	14	2,850,876	72,364
SEMES Co., Ltd.	2,187,919	659,607	683,383	58,675	1,409,736	82,958
Samsung Electronics Mexico S.A. De C.V. (SEM)	2,153,032	1,038,115	909,620	23,765	1,752,163	83,052
Samsung Electronics GmbH (SEG)	2,097,706	2,033,152	1,407,255	(5,306)	3,049,199	54,982
Samsung International, Inc. (SII)	1,879,442	383,763	1,912,341	403,181	3,668,330	768,771
Samsung Electronics Taiwan Co., Ltd. (SET)	1,797,627	1,139,056	933,647	(746)	1,879,459	1,453
Samsung Electronics Benelux B.V. (SEBN)	1,794,552	639,120	630,333	26,455	1,462,038	132,672
Samsung Electronics Europe Logistics B.V. (SELS)	1,639,004	1,443,005	3,802,880	42,336	8,045,329	226,763

(\*) Summary of financial information is based on separate financial statements of each subsidiary.

(\*) Consolidated financial data of an intermediate company that includes Harman International Industries, Inc. and its subsidiaries.

## 1.4 Changes in Consolidation Scope

Changes in consolidation scope during the six-month period ended June 30, 2024 are as follows:

Change	Region	Subsidiary	Description
Newly included	Asia(Excluding China)	Harman International (Thailand) Co., Ltd.	Establishment
	America	Harman Financial Group LLC	Liquidation
	Europe/CIS	Samsung Display Slovakia, s.r.o., v likvidacii (SDSK) Samsung Electronics Overseas B.V. (SEO)	Liquidation Liquidation
Excluded	Asia(Excluding China)	DOWOINSYS VINA COMPANY LIMITED	Sale of business
	Domestic	Dowooinsys Co., Ltd.	Sale of business
		Gf-System Co., Ltd.	Sale of business
		Samsung Venture Capital Union #48	Liquidation



## 2. Material Accounting Policies

### 2.1 Basis of Presentation

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. The accompanying interim consolidated financial statements have been condensed, restructured and translated into English from the Korean language financial statements.

The interim consolidated financial statements for the six-month period ended June 30, 2024 have been prepared in accordance with Korean IFRS 1034, *Interim Financial Reporting*. These interim consolidated financial statements have been prepared in accordance with the Korean IFRS which is effective as of June 30, 2024.

(A) New and amended standards adopted by the Company

The Company applied the following amended standards for the first time for the annual reporting period commencing January 1, 2024:

#### Amendments to Korean IFRS 1001, *Presentation of Financial Statements*

The amendments clarify that the classification of liabilities as current or non-current should be based on rights that are in existence at the end of the reporting period and that the classification is unaffected by management's intentions or expectations about whether an entity will exercise its right to defer settlement of a liability. The amendments also introduce a definition of settlement to make clear that settlement includes the transfer to the counterparty of the entity's own equity instruments, however, it would be excluded if an option to settle the liability by the transfer of the entity's own equity instruments is recognized separately from the liability as an equity component of a compound financial instrument. The application of amendments does not have a significant impact on the Company's interim consolidated financial statements.

#### Amendments to Korean IFRS 1116, *Leases*

The amendments add requirements for the subsequent measurement of sale-and-leaseback transactions that are accounted for as sales in accordance with Korean IFRS 1115, *Revenue from Contracts with Customers*. The amendments require the seller-lessee to calculate the 'lease payments' or 'revised lease payments' in a way that does not result in the seller-lessee recognizing any gain or loss for the rights of use that the seller-lessee continues to retain after the lease commences. The application of amendments does not have a significant impact on the Company's interim consolidated financial statements.

#### Amendments to Korean IFRS 1007, *Statement of Cash Flows*, and 1107, *Financial Instruments: Presentation*

The amendments add to the disclosure objectives in Korean IFRS 1007, *Statement of Cash Flows*, that information about supplier financing arrangements should be disclosed to enable users of financial statements to assess the impact of those arrangements on the Company's liabilities and cash flows. The amendments also amend Korean IFRS 1107, *Financial Instruments: Presentation*, to add supplier financing arrangements as an example of a requirement to disclose information about an entity's exposure to concentrations of liquidity risk. The application of amendments does not have a significant impact on the Company's interim consolidated financial statements.

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

The amended accounting standard issued that is not yet effective for the annual reporting period commencing January 1, 2024 and has not been early adopted by the Company is as follows:

Amendments to Korean IFRS 1021, *The Effects of Changes in Foreign Exchange Rates*

The amendments require exchangeability of two currencies should be assessed in order to clarify reporting of foreign currency transactions in the absence of normal-functioning foreign exchange market. The amendments also require applicable spot exchange rate should be determined when the assessment indicates two currencies lack exchangeability. The amendments are effective for annual reporting periods beginning on or after January 1, 2025, with early application permitted.

## **2.2 Accounting Policies**

Material accounting policies and method of computation used in the preparation of the interim consolidated financial statements are consistent with those of the annual consolidated financial statements for the year ended December 31, 2023, except for the changes due to the application of amendments of standards described in Note 2.1 and as described below.

Income tax expense for the interim period is recognized based on management's best estimate of the weighted average annual income tax rate expected for the full financial year considering global minimum top-up tax. The estimated average annual effective income tax rate is applied to the pre-tax income of the interim period.

## **2.3 Convenience Translation into United States Dollar Amounts**

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 dollars at the rate of ₩ 1,349.5 to \$1, the average exchange rate for the six-month period ended June 30, 2024. 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 dollars at this or at any other rate.

## **2.4 Material Accounting Estimates and Assumptions**

In preparing the interim consolidated financial statements, the management of the Company makes judgements, estimates and assumptions on matters which affect the application of policies and reported amounts of assets, liabilities, income and expenses. Estimates and assumptions are continually evaluated and are based on historical experience and other factors, including expectations of future events that are believed to be reasonable under the circumstances. The resulting accounting estimates, by definition, seldom equal the related actual results

Material accounting estimates and assumptions made in the preparation of the interim consolidated financial statements are consistent with those applied in the preparation of the annual consolidated financial statements for the year ended December 31, 2023, except for the estimates used to determine the income tax expense.

### 3. Financial Instruments by Category

Categorizations of financial assets and liabilities as of June 30, 2024 and December 31, 2023 are as follows:

(1) As of June 30, 2024

<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 <sup>(*)</sup>	Total
<b>Financial assets</b>					
Cash and cash equivalents	49,844,405	-	-	-	49,844,405
Short-term financial instruments	50,921,350	-	-	-	50,921,350
Short-term financial assets at amortized cost	-	-	-	-	-
Short-term financial assets at fair value through profit or loss	-	-	29,758	-	29,758
Trade receivables	43,660,885	-	-	-	43,660,885
Financial assets at fair value through other comprehensive income	-	9,202,104	-	-	9,202,104
Financial assets at fair value through profit or loss	-	-	1,360,016	-	1,360,016
Other	9,824,650	-	448,668	44,809	10,318,127
<b>Total</b>	154,251,290	9,202,104	1,838,442	44,809	165,336,645

(\*) 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 liabilities <sup>(*)</sup>	Total
<b>Financial liabilities</b>				
Trade payables	13,113,267	-	-	13,113,267
Short-term borrowings	250,948	-	10,375,644	10,626,592
Other payables	13,131,706	-	-	13,131,706
Current portion of long-term liabilities	1,070,947	-	1,043,886	2,114,833
Debentures	20,573	-	-	20,573
Long-term borrowings	-	-	3,719,386	3,719,386
Long-term other payables	4,812,132	-	-	4,812,132
Other	12,242,163	41,625	30,708	12,314,496
<b>Total</b>	44,641,736	41,625	15,169,624	59,852,985

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

(2) As of December 31, 2023

<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 <sup>(*)</sup>	Total
<b>Financial assets</b>					
Cash and cash equivalents	69,080,893	-	-	-	69,080,893
Short-term financial instruments	22,690,924	-	-	-	22,690,924
Short-term financial assets at amortized cost	608,281	-	-	-	608,281
Short-term financial assets at fair value through profit or loss	-	-	27,112	-	27,112
Trade receivables	36,647,393	-	-	-	36,647,393
Financial assets at fair value through other comprehensive income	-	7,481,297	-	-	7,481,297
Financial assets at fair value through profit or loss	-	-	1,431,394	-	1,431,394
Other	14,294,254	-	475,244	70,777	14,840,275
<b>Total</b>	<b>143,321,745</b>	<b>7,481,297</b>	<b>1,933,750</b>	<b>70,777</b>	<b>152,807,569</b>

(\*) 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 liabilities <sup>(*)</sup>	Total
<b>Financial liabilities</b>				
Trade payables	11,319,824	-	-	11,319,824
Short-term borrowings	504,552	-	6,610,049	7,114,601
Other payables	13,996,395	-	-	13,996,395
Current portion of long-term liabilities	310,436	-	998,439	1,308,875
Debentures	537,618	-	-	537,618
Long-term borrowings	-	-	3,724,850	3,724,850
Long-term other payables	4,907,875	-	-	4,907,875
Others	11,330,545	49,904	33,559	11,414,008
<b>Total</b>	<b>42,907,245</b>	<b>49,904</b>	<b>11,366,897</b>	<b>54,324,046</b>

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

#### 4. Financial Assets at Fair Value

(A) Details of financial assets at fair value as of June 30, 2024 and December 31, 2023 are as follows:

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

<i>(In millions of Korean won)</i>	June 30, 2024	December 31, 2023
<b>Non-current</b>		
Equity instruments	9,202,104	7,481,297

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

<i>(In millions of Korean won)</i>	June 30, 2024	December 31, 2023
<b>Current</b>		
Debt instruments	29,758	27,112
<b>Non-current</b>		
Equity instruments	689,105	812,358
Debt instruments	670,911	619,036
Subtotal	1,360,016	1,431,394
<b>Total</b>	1,389,774	1,458,506

(B) Details of listed equity securities of financial assets at fair value as of June 30, 2024 and December 31, 2023 are as follows:

<i>(In millions of Korean won, number of shares and percentage)</i>	June 30, 2024			December 31, 2023	
	Number of shares owned	Percentage of ownership <sup>(*)</sup> (%)	Acquisition cost	Carrying amount (Market value)	Carrying amount (Market value)
Samsung Heavy Industries Co., Ltd.	134,027,281	15.2	932,158	1,253,155	1,038,711
Hotel Shilla Co., Ltd.	2,004,717	5.1	13,957	107,453	131,108
iMarketKorea Inc.	647,320	1.9	324	5,625	5,560
Wonik Holdings Co., Ltd.	3,518,342	4.6	30,821	11,998	11,857
Wonik IPS Co., Ltd.	3,701,872	7.5	32,428	128,825	125,679
Wacom Co., Ltd.	8,398,400	5.5	62,013	54,804	50,358
Corning Incorporated	77,000,000	9.0	3,831,362	4,155,722	3,140,978
Other			547,311	1,111,030	1,093,963
<b>Total</b>			5,450,374	6,828,612	5,598,214

<sup>(\*)</sup> Ownership represents the Company's ownership of the total ordinary shares issued by each entity.

## 5. Inventories

Inventories as of June 30, 2024 and December 31, 2023 are as follows:

<i>(In millions of Korean won)</i>	June 30, 2024			December 31, 2023		
	Gross amount	Valuation allowance	Carrying amount	Gross amount	Valuation allowance	Carrying amount
Finished goods	15,352,148	(986,462)	14,365,686	16,120,367	(1,567,353)	14,553,014
Work in process	24,763,317	(1,379,982)	23,383,335	26,501,664	(4,303,216)	22,198,448
Raw materials and supplies	17,917,565	(1,633,053)	16,284,512	15,222,937	(1,525,583)	13,697,354
Materials in transit	1,533,080	-	1,533,080	1,177,058	-	1,177,058
<b>Total</b>	<b>59,566,110</b>	<b>(3,999,497)</b>	<b>55,566,613</b>	<b>59,022,026</b>	<b>(7,396,152)</b>	<b>51,625,874</b>

## 6. Investments in Associates and Joint Ventures

(A) Changes in investments in associates and joint ventures for the six-month periods ended June 30, 2024 and 2023 are as follows:

<i>(In millions of Korean won)</i>	2024	2023
Balance as of January 1	11,767,444	10,893,869
Acquisition	9,342	65,182
Disposal	(18,995)	(18,357)
Share of profit	413,347	413,782
Other <sup>(*)</sup>	5,592	(19,777)
<b>Balance as of June 30</b>	<b>12,176,730</b>	<b>11,334,699</b>

<sup>(\*)</sup> Other consists of dividends, impairment, and reclassification.

(B) Major investments in associates and joint ventures as of June 30, 2024 are as follows:

(1) Investments in associates

Investee	Nature of relationship	Percentage of ownership(%) <sup>(*)</sup>	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 Information Technology(IT) services including computer programming, system integration and management and logistical services	22.6	Korea	December
Samsung Biologics Co., Ltd.	Investment in new business	31.2	Korea	December
Samsung SDI Co., Ltd. <sup>(*)</sup>	Manufacture and supply electronic components including secondary cell batteries	19.6	Korea	December
Cheil Worldwide, Inc.	Advertising agency	25.2	Korea	December

<sup>(\*)</sup> Ownership represents the Company's ownership of the total ordinary shares issued by each entity.

<sup>(\*)</sup> 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 (%) <sup>(*)</sup>	Principal business location	Fiscal period-end
Samsung Corning Advanced Glass LLC	Manufacture and supply industrial glass devices	50.0	Korea	December

<sup>(\*)</sup> Ownership represents the Company's ownership of the total ordinary shares issued by the entity.

(C) Details of investments in significant associates and joint ventures as of June 30, 2024 and December 31, 2023 are as follows:

(1) Investments in associates

*(In millions of Korean won)*

Investee	Acquisition cost	June 30, 2024	
		Net asset value of equity shares <sup>(*)</sup>	Carrying amount
Samsung Electro-Mechanics Co., Ltd.	359,237	1,939,430	1,944,994
Samsung SDS Co., Ltd.	147,963	2,019,494	2,030,863
Samsung Biologics Co., Ltd.	1,424,358	3,224,036	3,228,596
Samsung SDI Co., Ltd.	1,242,605	3,916,963	2,989,443
Cheil Worldwide, Inc.	506,162	379,596	680,107
Other	686,567	841,530	1,089,617
<b>Total</b>	<b>4,366,892</b>	<b>12,321,049</b>	<b>11,963,620</b>

<sup>(\*)</sup> 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, 2023	
		Net asset value of equity shares <sup>(*)</sup>	Carrying amount
Samsung Electro-Mechanics Co., Ltd.	359,237	1,837,925	1,841,393
Samsung SDS Co., Ltd.	147,963	1,955,699	1,966,206
Samsung Biologics Co., Ltd.	1,424,358	3,068,636	3,073,595
Samsung SDI Co., Ltd.	1,242,605	3,726,675	2,912,564
Cheil Worldwide, Inc.	506,162	368,875	669,363
Other	690,481	844,645	1,093,799
<b>Total</b>	<b>4,370,806</b>	<b>11,802,455</b>	<b>11,556,920</b>

<sup>(\*)</sup> 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)

June 30, 2024

Investee	Acquisition cost	Net asset value of equity shares <sup>(*)</sup>	Carrying amount
Samsung Corning Advanced Glass LLC	215,000	138,408	138,405
Other	259,994	74,128	74,705
<b>Total</b>	<b>474,994</b>	<b>212,536</b>	<b>213,110</b>

(\*) 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)

December 31, 2023

Investee	Acquisition cost	Net asset value of equity shares <sup>(*)</sup>	Carrying amount
Samsung Corning Advanced Glass LLC	215,000	138,939	138,938
Other	259,994	72,215	71,586
<b>Total</b>	<b>474,994</b>	<b>211,154</b>	<b>210,524</b>

(\*) The Company's portion of net asset value of joint ventures is based on the Company's percentage of ownership.

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

(1) For the six-month period ended June 30, 2024

(In millions of Korean won)	Balance as of January 1	Share of profit	Share of other comprehensive income (loss)	Other <sup>(*)</sup>	Balance as of June 30
Samsung Electro-Mechanics Co., Ltd.	1,841,393	85,364	38,584	(20,347)	1,944,994
Samsung SDS Co., Ltd.	1,966,206	88,396	23,436	(47,175)	2,030,863
Samsung Biologics Co., Ltd.	3,073,595	155,807	(806)	-	3,228,596
Samsung SDI Co., Ltd.	2,912,564	50,694	39,648	(13,463)	2,989,443
Cheil Worldwide, Inc.	669,363	30,809	12,167	(32,232)	680,107
Samsung Corning Advanced Glass LLC	138,938	(533)	-	-	138,405
Other	1,165,385	2,810	(1,171)	(2,702)	1,164,322
<b>Total</b>	<b>11,767,444</b>	<b>413,347</b>	<b>111,858</b>	<b>(115,919)</b>	<b>12,176,730</b>

(\*) Other consists of acquisitions, disposals, dividends, impairment and reclassification.



(2) For the six-month period ended June 30, 2023

<i>(In millions of Korean won)</i>	Balance as of January 1	Share of Profit (loss)	Share of other comprehensive income (loss)	Other <sup>(*)</sup>	Balance as of June 30
Samsung Electro-Mechanics Co., Ltd.	1,764,249	56,192	6,258	(37,155)	1,789,544
Samsung SDS Co., Ltd.	1,870,338	84,939	19,059	(55,910)	1,918,426
Samsung Biologics Co., Ltd.	2,808,673	102,673	(32)	-	2,911,314
Samsung SDI Co., Ltd.	2,691,223	101,539	37,340	(13,868)	2,816,234
Cheil Worldwide, Inc.	649,161	29,823	4,567	(33,394)	650,157
Samsung Corning Advanced Glass LLC	137,745	(1,448)	-	-	136,297
Other	972,480	40,064	40,933	59,250	1,112,727
<b>Total</b>	<b>10,893,869</b>	<b>413,782</b>	<b>108,125</b>	<b>(81,077)</b>	<b>11,334,699</b>

<sup>(\*)</sup> Other consists of acquisitions, disposals, dividends, impairment, and reclassification.

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

(1) Summary of financial information of major associates and dividends received from associates as of June 30, 2024 and December 31, 2023, and for the six-month periods ended June 30, 2024 and 2023 are as follows:

<i>(In millions of Korean won)</i>	2024				
	Samsung Electro- Mechanics Co., Ltd.	Samsung SDS Co., Ltd.	Samsung Biologics Co., Ltd.	Samsung SDI Co., Ltd.	Cheil Worldwide, Inc.
<b>1. Condensed financial information</b>					
<b>Condensed statements of financial position :</b>					
Current assets	6,057,580	8,436,909	5,431,353	9,968,558	2,253,613
Non-current assets	6,686,875	4,245,463	10,911,498	27,814,168	523,289
Current liabilities	3,406,462	2,410,841	4,034,077	10,609,204	1,213,266
Non-current liabilities	854,951	996,141	1,980,450	5,983,949	226,913
Non-controlling interests	201,919	334,958	-	1,732,989	12,770
<b>Condensed statements of comprehensive income:</b>					
Revenue	5,204,421	6,616,222	2,103,808	9,581,028	2,107,457
Profit from continuing operations, net of tax <sup>(*)</sup>	357,063	387,513	497,354	547,602	107,420
Loss from discontinued operations, net of tax <sup>(*)</sup>	(1,521)	-	-	-	-
Other comprehensive income <sup>(*)</sup>	164,890	103,755	478	416,030	42,394
Total comprehensive income <sup>(*)</sup>	520,432	491,268	497,832	963,632	149,814
<b>2. Dividends from associates</b>					
Dividends	20,347	47,175	-	13,463	32,232

<sup>(\*)</sup> Profit (loss) attributable to owners of the investee

2023

<i>(In millions of Korean won)</i>	Samsung Electro- Mechanics Co., Ltd.	Samsung SDS Co., Ltd.	Samsung Biologics Co., Ltd.	Samsung SDI Co., Ltd.	Cheil Worldwide, Inc.
<b>1. Condensed financial information</b>					
<b>Condensed statements of financial position:</b>					
Current assets	5,208,418	8,160,300	5,521,988	9,187,029	2,372,420
Non-current assets	6,449,453	4,160,724	10,524,209	24,851,831	517,085
Current liabilities	2,900,460	2,391,861	4,157,861	8,518,933	1,375,034
Non-current liabilities	727,087	953,592	2,057,844	5,612,677	216,707
Non-controlling interests	182,613	317,562	-	1,395,877	11,206
<b>Condensed statements of comprehensive income:</b>					
Revenue	4,242,286	6,691,688	1,587,107	11,195,427	1,913,000
Profit from continuing operations, net of tax <sup>(*)</sup>	232,469	375,102	326,641	899,767	104,081
Loss from discontinued operations, net of tax <sup>(*)</sup>	(8,472)	-	-	-	-
Other comprehensive income (loss) <sup>(*)</sup>	38,283	84,377	(91)	271,927	19,952
Total comprehensive income <sup>(*)</sup>	262,280	459,479	326,550	1,171,694	124,033
<b>2. Dividends from associates</b>					
Dividends	37,155	55,911	-	13,867	33,394

<sup>(\*)</sup> Profit (loss) attributable to owners of the investee.

- (2) Summary of financial information of major joint ventures and dividends received from joint ventures as of June 30, 2024 and December 31, 2023, and for the six-month periods ended June 30, 2024 and 2023 are as follows:

<i>(In millions of Korean won)</i>	<b>Samsung Corning Advanced Glass, LLC</b>	
	<b>2024</b>	<b>2023</b>
<b>Condensed financial information</b>		
<b>Condensed statements of financial position:</b>		
Current assets	118,300	116,372
Non-current assets	188,879	185,100
Current liabilities	29,372	22,684
Non-current liabilities	992	911
<b>Condensed statements of comprehensive income:</b>		
Revenue	72,395	50,320
Loss from continuing operations, net of tax	(1,063)	(2,896)
Profit from discontinued operations, net of tax	-	-
Other comprehensive income	-	-
Total comprehensive loss	(1,063)	(2,896)
<b>Dividends from joint ventures</b>		
Dividends	-	-

- (3) Profit (loss) attributable to owners of the parent company from associates and joint ventures which are not individually material for the six-month periods ended June 30, 2024 and 2023 are as follows:

<i>(In millions of Korean won)</i>	<b>2024</b>		<b>2023</b>	
	<b>Associates</b>	<b>Joint ventures</b>	<b>Associates</b>	<b>Joint ventures</b>
Profit from continuing operations	1,445	1,365	38,861	1,203
Other comprehensive income (loss)	267	(1,438)	40,789	144
<b>Total comprehensive income (loss)</b>	<b>1,712</b>	<b>(73)</b>	<b>79,650</b>	<b>1,347</b>

- (F) Details of marketable investments in associates as of June 30, 2024 and December 31, 2023 are as follows:

<i>(In millions of Korean won and number of shares)</i>	<b>June 30, 2024</b>		<b>December 31, 2023</b>
	<b>Number of shares</b>		
	<b>held</b>	<b>Market value</b>	<b>Market value</b>
Samsung Electro-Mechanics Co., Ltd.	17,693,084	2,795,507	2,710,580
Samsung SDS Co., Ltd.	17,472,110	2,594,608	2,970,259
Samsung Biologics Co., Ltd.	22,217,309	16,151,984	16,885,155
Samsung SDI Co., Ltd.	13,462,673	4,765,786	6,354,382
Cheil Worldwide, Inc.	29,038,075	534,301	552,595

### (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 W 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 appeal. On October 16, 2020, the Korea Securities and Futures Commission appealed the decision 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 measures, 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 the 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.

## 7. Property, Plant and Equipment

(A) Changes in property, plant and equipment for the six-month periods ended June 30, 2024 and 2023 are as follows:

<i>(In millions of Korean won)</i>	<b>2024</b>	<b>2023</b>
Balance as of January 1	187,256,262	168,045,388
Acquisition and capital expenditures	23,941,766	26,299,312
Depreciation	(18,607,158)	(17,568,639)
Disposals/scrap/impairment	(196,972)	(209,921)
Other <sup>(*)</sup>	2,055,928	1,303,802
<b>Balance as of June 30</b>	<b>194,449,826</b>	<b>177,869,942</b>

<sup>(\*)</sup> Other includes effects of changes in foreign currency exchange rates and other.

(B) Details of depreciation of property, plant and equipment for the six-month periods ended June 30, 2024 and 2023 are as follows:

<i>(In millions of Korean won)</i>	<b>2024</b>	<b>2023</b>
Cost of sales	16,505,434	15,643,321
Selling and administrative expenses and other	2,101,724	1,925,318
<b>Total</b>	<b>18,607,158</b>	<b>17,568,639</b>

(C) Right-of-use assets as of June 30, 2024 amount to ₩ 5,434,792 million (December 31, 2023: ₩ 5,449,032 million). During the six-month periods ended June 30, 2024 and 2023, newly recognized right-of-use assets amount to ₩ 533,366 million and ₩ 1,040,012 million, respectively, with relevant depreciation of ₩ 597,325 million and ₩ 589,402 million, respectively.

## 8. Intangible Assets

(A) Changes in intangible assets for the six-month periods ended June 30, 2024 and 2023 are as follows:

<i>(In millions of Korean won)</i>	2024	2023
Balance as of January 1	22,741,862	20,217,754
External acquisitions	1,669,514	4,324,670
Amortization	(1,465,554)	(1,576,451)
Disposals/scrap/impairment	(35,351)	(25,652)
Other <sup>(*)</sup>	712,809	489,913
<b>Balance as of June 30</b>	<b>23,623,280</b>	<b>23,430,234</b>

<sup>(\*)</sup> Other includes the cumulative effect of changes in foreign currency exchange rates and business combinations.

(B) Details of amortization of intangible assets for the six-month periods ended June 30, 2024 and 2023 are as follows:

<i>(In millions of Korean won)</i>	2024	2023
Cost of sales	994,161	1,109,423
Selling and administrative expenses and other	471,393	467,028
<b>Total</b>	<b>1,465,554</b>	<b>1,576,451</b>

## 9. Borrowings

Details of the carrying amounts of borrowings as of June 30, 2024 and December 31, 2023 are as follows:

<i>(In millions of Korean won)</i>	Financial institutions	Interest rates (%) as of June 30, 2024	June 30, 2024	December 31, 2023
<b>Short-term borrowings</b>				
Collateralized borrowings <sup>(*)</sup>	Woori Bank and others	0.0~13.6	10,375,644	6,610,049
Non-collateralized borrowings	Citibank and others	0.0~53.9	250,948	504,552
<b>Total</b>			<b>10,626,592</b>	<b>7,114,601</b>
<b>Current portion of long-term borrowings</b>				
Bank borrowings	BNP and others	36.1~55.3	506,839	304,082
Lease liabilities <sup>(*)</sup>	CSDD and others	4.6	1,043,886	998,439
<b>Total</b>			<b>1,550,725</b>	<b>1,302,521</b>
<b>Long-term borrowings</b>				
Lease liabilities <sup>(*)</sup>	CSDD and others	4.6	3,719,386	3,724,850

<sup>(\*)</sup> Collateralized borrowings are secured by trade receivables.

<sup>(\*)</sup> Interest expenses arising from the lease liabilities for the six-month periods ended June 30, 2024 and 2023 amount to ₩ 108,570 million and ₩ 94,075 million, respectively, which are determined using the weighted average incremental borrowing rate.

## 10. Debentures

Details of the carrying amounts of debentures as of June 30, 2024 and December 31, 2023 are as follows:

<i>(In millions of Korean won)</i>	Issue date	Due date	Interest rates (%) as of June 30, 2024	June 30, 2024	December 31, 2023
US dollar denominated straight bonds <sup>(*)</sup>	1997.10.2	2027.10.1	7.7	27,784 (US \$ 20 million)	25,788 (US \$ 20 million)
US dollar denominated debentures <sup>(**)</sup>	2015.5.11	2025.5.15	4.2	555,680 (US \$ 400 million)	515,760 (US \$ 400 million)
Less: Discounts				(344)	(370)
Add: Premium				1,561	2,794
Less: Current portion				(564,108)	(6,354)
<b>Total</b>				<b>20,573</b>	<b>537,618</b>

(\*) 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 in arrears.

(\*\*) Harman International Industries, Inc. issued US dollar denominated debentures. These debentures are repaid on the maturity and interest is paid semi-annually in arrears.

## 11. Net Defined Benefit Liabilities (Assets)

(A) Details of net defined benefit liabilities (assets) recognized in the statements of financial position as of June 30, 2024 and December 31, 2023 are as follows:

<i>(In millions of Korean won)</i>	June 30, 2024	December 31, 2023
Present value of funded defined benefit obligations	15,927,219	15,403,976
Present value of unfunded defined benefit obligations	304,907	319,689
Subtotal	16,232,126	15,723,665
Fair value of plan assets	(19,992,918)	(20,172,327)
<b>Total</b>	<b>(3,760,792)</b>	<b>(4,448,662)</b>

(B) The components of defined benefit costs recognized in profit or loss for the six-month periods ended June 30, 2024 and 2023 relating to defined benefit plans are as follows:

<i>(In millions of Korean won)</i>	2024	2023
Current service cost	699,746	634,643
Net interest income	(129,384)	(176,734)
Past service cost	(273)	(581)
Other	11,864	15,865
<b>Total</b>	<b>581,953</b>	<b>473,193</b>

- (C) The expenses related to defined benefit plans recognized in the statements of profit or loss for the six-month periods ended June 30, 2024 and 2023 are as follows:

<i>(In millions of Korean won)</i>	<b>2024</b>	<b>2023</b>
Cost of sales	232,457	189,349
Selling and administrative expenses and other	349,496	283,844
<b>Total</b>	<b>581,953</b>	<b>473,193</b>

## 12. Provisions

Changes in the provisions for the six-month period ended June 30, 2024 are as follows:

<i>(In millions of Korean won)</i>	<b>Warranty (A)</b>	<b>Royalty (B)</b>	<b>Long-term incentives (C)</b>	<b>Other (D, E)</b>	<b>Total</b>
Balance as of January 1	2,540,212	1,838,052	993,751	4,031,311	9,403,326
Charged to profit or loss	1,006,577	638,975	114,499	1,730,408	3,490,459
Payment	(903,447)	(471,073)	(195,635)	(733,650)	(2,303,805)
Other <sup>(*)</sup>	81,921	52,559	8,155	57,114	199,749
<b>Balance as of June 30</b>	<b>2,725,263</b>	<b>2,058,513</b>	<b>920,770</b>	<b>5,085,183</b>	<b>10,789,729</b>

<sup>(\*)</sup> Other includes effects of changes in foreign currency exchange rates.

- (A) The Company accrues warranty provisions 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 negotiations.
- (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.
- (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 emission in excess of the emission rights held by the Company for the applicable years. Details of emission rights and liabilities as of June 30, 2024 are as follows:
- (1) The amount of emission rights allocated free of charge in the current commitment period and the estimated amount of emission as of June 30, 2024 are as follows:

<i>(In ten thousand metric tons)</i>	<b>June 30, 2024</b>
Emission rights allocated free of charge	1,630
Estimated volume of emission	1,811



(2) Changes in the emission rights for the six-month periods ended June 30, 2024 and 2023 are as follows:

<i>(In millions of Korean won)</i>	<b>2024</b>	<b>2023</b>
Balance as of January 1	3,137	19,567
Increase (decrease)	-	1,047
<b>Balance as of June 30</b>	<b>3,137</b>	<b>20,614</b>

(3) Changes in the emission liabilities for the six-month periods ended June 30, 2024 and 2023 are as follows:

<i>(In millions of Korean won)</i>	<b>2024</b>	<b>2023</b>
Balance as of January 1	137	32,838
Charged to profit or loss	70	-
Utilization	-	(14)
<b>Balance as of June 30</b>	<b>207</b>	<b>32,824</b>

### 13. Commitments and Contingencies

#### (A) Litigation

As of June 30, 2024, the Company is involved in various claims, disputes, and investigations conducted by regulatory bodies that arose during the normal course of business with numerous entities. Although the outflow of resources and timing of these matters are uncertain, the Company believes the outcome will not have a material impact on the financial position of the Company.

#### (B) Other commitments

As of June 30, 2024, contractual commitments for the acquisition of property, plant and equipment and intangible assets amount to ₩ 14,903,033 million.

### 14. Contract Liabilities

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

<i>(In millions of Korean won)</i>	<b>June 30, 2024</b>	<b>December 31, 2023</b>
Contract liabilities <sup>(*)</sup>	12,662,537	13,327,724

<sup>(\*)</sup> Contract liabilities include advances received, accrued expenses, other current liabilities and others.

## 15. Share Capital

As of June 30, 2024, the Company's total number of authorized shares is 25,000,000,000 shares (₩ 100 per share). As well as its ordinary shares, the Company also has non-cumulative preference shares that are eligible for an additional 1% cash dividend over par value per annum compared to ordinary shares, but without voting rights. The Company has issued 5,969,782,550 shares of ordinary shares and 822,886,700 shares of preference shares as of June 30, 2024, excluding the number of retired shares. As of June 30, 2024, 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 six-month period ended June 30, 2024 and the year ended December 31, 2023. Due to the retirement of shares, the total par value of the shares issued which excludes the number of retired shares 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.

## 16. Retained Earnings

(A) Retained earnings as of June 30, 2024 and December 31, 2023 consist of the following:

<i>(In millions of Korean won)</i>	<b>June 30, 2024</b>	<b>December 31, 2023</b>
Discretionary reserve and other	208,843,803	208,198,003
Unappropriated retained earnings	149,191,999	138,454,235
<b>Total</b>	<b>358,035,802</b>	<b>346,652,238</b>

(B) Details of interim dividends are as follows:

Interim dividends (Record date: March 31 and June 30, 2024 and 2023)

<i>(In millions of Korean won and number of shares)</i>		<b>2024</b>	<b>2023</b>	
	Number of shares eligible for dividends	Ordinary shares	5,969,782,550	5,969,782,550
		Preference shares	822,886,700	822,886,700
1 <sup>st</sup> Quarter	Dividend rate (based on par value)	Ordinary/Preference	361%	361%
	Dividend amount	Ordinary shares	2,155,092	2,155,092
		Preference shares	297,062	297,062
	<b>Total</b>	<b>2,452,154</b>	<b>2,452,154</b>	
	Number of shares eligible for dividends	Ordinary shares	5,969,782,550	5,969,782,550
		Preference shares	822,886,700	822,886,700
2 <sup>nd</sup> Quarter	Dividend rate (based on par value)	Ordinary/Preference	361%	361%
	Dividend amount	Ordinary shares	2,155,092	2,155,092
		Preference shares	297,062	297,062
	<b>Total</b>	<b>2,452,154</b>	<b>2,452,154</b>	

## 17. Other Components of Equity

Other components of equity as of June 30, 2024 and December 31, 2023 are as follows:

<i>(In millions of Korean won)</i>	<b>June 30, 2024</b>	<b>December 31, 2023</b>
Gain on valuation of financial assets at fair value through other comprehensive income	1,308,079	194,419
Share of other comprehensive income of associates and joint ventures	303,340	185,144
Gain on overseas business translation	11,609,133	3,651,112
Remeasurement of net defined benefit liabilities (assets)	(2,960,760)	(2,849,526)
Other	72,561	98,981
<b>Total</b>	<b>10,332,353</b>	<b>1,280,130</b>

## 18. Expenses by Nature

Expenses by nature for the three and six-month periods ended June 30, 2024 and 2023 consist of the following:

<i>(In millions of Korean won)</i>	<b>2024</b>		<b>2023</b>	
	<b>3 Months</b>	<b>6 Months</b>	<b>3 Months</b>	<b>6 Months</b>
Changes in finished goods, work in process, and other	(595,106)	(994,371)	(935,654)	(3,152,414)
Raw materials used, merchandise purchased, and other	22,856,760	47,155,223	21,190,339	48,387,259
Wages and salaries	8,153,699	16,228,699	8,090,473	15,991,639
Post-employment benefit	367,126	714,936	273,221	551,510
Depreciation	9,375,848	18,607,158	8,767,744	17,568,639
Amortization	746,072	1,465,554	790,853	1,576,451
Welfare	1,676,331	3,400,809	1,740,173	3,281,449
Utilities	1,970,174	3,993,356	1,771,378	3,632,488
Outsourcing	1,996,545	3,767,051	1,729,937	3,410,856
Advertising	1,323,745	2,758,671	1,073,439	2,218,782
Sales promotion	1,779,434	3,616,828	1,568,835	3,241,787
Other	13,973,796	28,220,102	13,276,248	25,733,733
<b>Total<sup>(*)</sup></b>	<b>63,624,424</b>	<b>128,934,016</b>	<b>59,336,986</b>	<b>122,442,179</b>

(\*) Equal to the sum of cost of sales and selling and administrative expenses in the consolidated statement of profit or loss.

## 19. Selling and Administrative Expenses

Selling and administrative expenses for the three and six-month periods ended June 30, 2024 and 2023 are as follows:

<i>(In millions of Korean won)</i>	2024		2023	
	3 Months	6 Months	3 Months	6 Months
<b>Selling and administrative expenses</b>				
Wages and salaries	2,182,296	4,361,506	2,102,067	4,174,476
Post-employment benefit	113,674	191,265	70,645	140,157
Commissions	2,197,695	4,281,199	2,070,654	4,174,578
Depreciation	418,377	831,374	419,353	822,999
Amortization	176,923	351,970	172,647	341,586
Advertising	1,323,745	2,758,671	1,073,439	2,218,782
Sales promotion	1,779,434	3,616,828	1,568,835	3,241,787
Transportation	647,009	1,361,544	420,198	834,603
Service	782,082	2,023,641	1,088,395	2,110,131
Other	1,642,050	3,088,507	1,505,008	2,951,508
<b>Subtotal</b>	<b>11,263,285</b>	<b>22,866,505</b>	<b>10,491,241</b>	<b>21,010,607</b>
<b>Research and development expenses</b>				
Research and development	8,049,113	15,869,153	7,198,555	13,777,289
<b>Total</b>	<b>19,312,398</b>	<b>38,735,658</b>	<b>17,689,796</b>	<b>34,787,896</b>

## 20. Other Non-Operating Income and Expenses

Details of other non-operating income and expenses for the three and six-month periods ended June 30, 2024 and 2023 are as follows:

<i>(In millions of Korean won)</i>	2024		2023	
	3 Months	6 Months	3 Months	6 Months
<b>Other non-operating income</b>				
Dividend income	33,059	72,516	48,894	96,788
Rental income	38,805	77,719	36,963	74,905
Gain on disposal of property, plant and equipment	19,022	28,357	20,598	55,047
Other	227,615	585,190	94,721	478,731
<b>Total</b>	<b>318,501</b>	<b>763,782</b>	<b>201,176</b>	<b>705,471</b>

<i>(In millions of Korean won)</i>	2024		2023	
	3 Months	6 Months	3 Months	6 Months
<b>Other non-operating expenses</b>				
Loss on disposal of property, plant and equipment	5,189	31,237	10,611	20,003
Donations	27,908	105,384	29,710	102,793
Other	212,399	490,268	128,736	250,243
<b>Total</b>	<b>245,496</b>	<b>626,889</b>	<b>169,057</b>	<b>373,039</b>

## 21. Financial Income and Expenses

Details of financial income and expenses for the three and six-month periods ended June 30, 2024 and 2023 are as follows:

<i>(In millions of Korean won)</i>	2024		2023	
	3 Months	6 Months	3 Months	6 Months
<b>Financial income</b>				
Interest income:	1,178,096	2,350,281	1,152,273	2,212,719
Financial assets measured at amortized cost	1,178,045	2,350,197	1,152,212	2,212,592
Financial assets measured at fair value through profit or loss	51	84	61	127
Foreign exchange differences	2,198,384	4,319,313	2,758,603	5,878,615
Gain from derivatives	239,704	401,653	146,052	593,643
<b>Total</b>	<b>3,616,184</b>	<b>7,071,247</b>	<b>4,056,928</b>	<b>8,684,977</b>

<i>(In millions of Korean won)</i>	2024		2023	
	3 Months	6 Months	3 Months	6 Months
<b>Financial expenses</b>				
Interest expenses:	194,748	437,520	286,893	578,570
Financial liabilities measured at amortized cost	27,081	94,008	176,050	327,906
Other financial liabilities	167,667	343,512	110,843	250,664
Foreign exchange differences	2,312,487	4,552,548	2,556,359	5,932,237
Loss from derivatives	229,002	379,239	401,288	689,734
<b>Total</b>	<b>2,736,237</b>	<b>5,369,307</b>	<b>3,244,540</b>	<b>7,200,541</b>

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

## 22. Income Tax Expense

Income tax expense is recognized based on management's best estimate of the weighted average annual income tax rate expected for the full financial year considering global minimum top-up tax. The average annual tax rate expected as of June 30, 2024 to be effective for the year ended December 31, 2024 is 14.0%.

## 23. Earnings per Share

### (A) Basic earnings per share

Basic earnings per share for the three and six-month periods ended June 30, 2024 and 2023 are calculated as follows:

#### (1) Ordinary shares

<i>(In millions of Korean won and thousands of shares)</i>	2024		2023	
	3 Months	6 Months	3 Months	6 Months
Profit for the period attributable to owners of the parent company	9,642,653	16,263,683	1,547,018	2,948,270
Profit for the period available for ordinary shares	8,474,510	14,293,446	1,359,607	2,591,107
Weighted-average number of ordinary shares outstanding	5,969,783	5,969,783	5,969,783	5,969,783
<b>Basic earnings per ordinary share (in Korean won)</b>	<b>1,419</b>	<b>2,394</b>	<b>228</b>	<b>434</b>

#### (2) Preference shares

<i>(In millions of Korean won and thousands of shares)</i>	2024		2023	
	3 Months	6 Months	3 Months	6 Months
Profit for the period attributable to owners of the parent company	9,642,653	16,263,683	1,547,018	2,948,270
Profit for the period available for preference shares	1,168,143	1,970,237	187,411	357,163
Weighted-average number of preference shares outstanding	822,887	822,887	822,887	822,887
<b>Basic earnings per preference share (in Korean won)</b>	<b>1,419</b>	<b>2,394</b>	<b>228</b>	<b>434</b>

### (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 three and six-month periods ended June 30, 2024 and 2023.

## 24. Statements of Cash Flows

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 six-month periods ended June 30, 2024 and 2023 are as follows:

### - Adjustments

<i>(In millions of Korean won)</i>	<b>2024</b>	<b>2023</b>
Adjustments:		
Income tax expense	2,706,014	241,205
Financial income	(3,582,400)	(3,619,551)
Financial expenses	2,161,371	2,601,229
Post-employment benefits	714,936	551,510
Depreciation	18,607,158	17,568,639
Amortization	1,465,554	1,576,451
(Reversal of) bad debt expense	(20,386)	76,054
Dividend income	(72,516)	(96,788)
Share of profit of associates and joint ventures	(413,347)	(413,782)
Gain on disposal of property, plant and equipment	(28,357)	(55,047)
Loss on disposal of property, plant and equipment	31,237	20,003
Loss (Reversal of loss) on valuation of inventories	(2,777,967)	3,569,456
Other	(3,501)	(61,354)
<b>Total</b>	<b>18,787,796</b>	<b>21,958,025</b>

### - Changes in assets and liabilities arising from operating activities

<i>(In millions of Korean won)</i>	<b>2024</b>	<b>2023</b>
Changes in assets and liabilities:		
Decrease (increase) in trade receivables	(4,814,802)	727,124
Decrease in other receivables	269,310	990,666
Increase in prepaid expenses	(4,706)	(449,776)
Decrease (increase) in inventories	68,248	(5,846,100)
Increase (decrease) in trade payables	(196,504)	635,101
Increase in other payables	176,912	589,905
Decrease in advances received	(117,196)	(181,346)
Increase (decrease) in withholdings	16,828	(562,980)
Increase (decrease) in accrued expenses	261,533	(4,485,803)
Increase in provisions	1,186,654	1,223,152
Payment of post-employment benefits	(567,124)	(323,060)
Other	(526,835)	(590,248)
<b>Total</b>	<b>(4,247,682)</b>	<b>(8,273,365)</b>

For the six-month periods ended June 30, 2024 and 2023, cash outflows from principal portion of lease liabilities (financial activities) amount to ₩ 588,341 million and ₩ 538,783 million, respectively, and cash outflows due to interest expenses (operating activities) in relation to the lease liabilities amount to ₩ 108,570 million and ₩ 94,075 million, respectively.

## 25. Financial Risk Management

The Company manages its financial risks with a focus on minimizing market risk, credit risk, and liquidity risk arising from its operating activities. To this end, the Company closely monitors and responds to each risk factor.

The Company establishes global financial management standards, periodically measures customer and counterparty financial risk, and manages the risk with currency hedges and review of cash flows, etc.

The Company also manages foreign exchange risk by monitoring foreign exchange rate fluctuations through local financial centers in the major regions (United States, United Kingdom, Singapore, China, Brazil, and Russia), which act as an agent for the subsidiaries in each region to manage foreign exchange transactions. In addition, local finance centers in the major regions respond to liquidity risk through a regionally integrated financial structure.

The Company's financial assets subject to financial risk management consist of cash and cash equivalents, short-term financial instruments, financial assets at amortized cost, trade receivables and others, while its financial liabilities consist 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 through transactions in currencies other than its functional currency. The main currencies in which the Company is exposed to foreign exchange risk are the US dollar and European Euro.

The Company focuses on minimizing the impact of foreign exchange fluctuation by matching levels of assets and liabilities denominated in each foreign currency. To minimize 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 match as closely as possible cash inflows and outflows incurred in the respective foreign currencies. This reduces but may not eliminate the foreign exchange risk to which the Company is exposed. 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.

#### (2) Interest rate risk

Interest rate risk for floating interest rate financial instruments can be defined as the risk of changes in the fair value of components of the statement of financial position due to changes in the market interest rates, and the risk of changes in the future cash flows of interest income and expenses arising from investing and financing activities. The Company's exposure to interest rate risk arises primarily from interest-bearing deposits and floating interest rate debt obligations, and the Company manages its exposure to interest rate risk to minimize uncertainty and cost of financing resulting from changes in interest rates.

#### (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 June 30, 2024 and 2023, price fluctuation of marketable equity securities (listed stocks) by 1% would result in changes in other comprehensive income (before income tax) of ₩ 66,935 million and ₩ 81,526 million, respectively,



and changes in profit before tax of ₩ 1,351 million and ₩ 4,309 million, respectively.

#### (B) Credit risk

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

Credit risk also can arise from transactions with financial institutions including transactions in financial instruments such as cash and cash equivalents, deposits, and derivative instruments. To minimize such risk, the Company transacts only with banks that have a strong international credit rating (S&P A and above), and new transactions with financial institutions which the Company does not have an existing relationship are subject to the completion of risk assessments prior to commencement of transactions. The Company generally enters into financial agreements without restrictions, such as debt ratio covenants, provision of collateral and/or repayment of loans/borrowings, and otherwise separate approvals are obtained.

The carrying amount of the Company's financial assets is net of impairment losses and the Company's maximum exposure to credit risk is equal to the carrying amount of its financial assets.

#### (C) Liquidity risk

Liquidity risk is the risk that a company will have difficulty in meeting all its financial obligations. The Company's main sources of liquidity are cash generated from operations and funds raised from the capital markets and financial institutions, while its main liquidity needs are for investments in production, research and development, working capital and dividends. Due to the nature of the Company's business, which involves large investments, maintaining adequate levels of liquidity is critical. The Company maintains and manages adequate liquidity through forecasting periodic cash flows, estimating required cash levels, and monitoring inflows and outflows of cash.

The Company has established Cash Pooling by region to respond effectively to liquidity risks, even when individual companies within a region are underfunded. Cash Pooling is a system that shares funds between underfunded and overfunded companies, minimizing the liquidity risk of individual companies, easing the burden of fund management, and reducing financial costs.

In addition, the Company has secured credit lines for its overseas subsidiaries by means of payment guarantees from the head office in the event of large liquidity needs, and, at the end of the period, the Company had investment grade ratings of Aa2 from Moody's and AA- from S&P, enabling it to raise funds on the capital market in a timely manner.

#### (D) Capital risk management

The purpose of capital management is to maintain a sound capital structure and protect the Company's ability to continue to provide benefits to its shareholders and stakeholders as a going concern. The Company monitors capital on the basis of credit ratings and debt ratio.

The debt ratios as of June 30, 2024 and December 31, 2023 are as follows:

<i>(In millions of Korean won)</i>	<b>June 30, 2024</b>	<b>December 31, 2023</b>
Total liabilities	102,231,027	92,228,115
Total equity	383,526,671	363,677,865
<b>Debt ratio</b>	26.7%	25.4%

(E) Fair value measurement

(1) Carrying amounts and fair values of financial instruments by category as of June 30, 2024 and December 31, 2023 are as follows:

<i>(In millions of Korean won)</i>	<b>June 30, 2024</b>		<b>December 31, 2023</b>	
	<b>Carrying amount</b>	<b>Fair value</b>	<b>Carrying amount</b>	<b>Fair value</b>
<b>Financial assets</b>				
Cash and cash equivalents	49,844,405	(*)	69,080,893	(*)
Short-term financial instruments	50,921,350	(*)	22,690,924	(*)
Short-term financial assets at amortized cost	-	-	608,281	(*)
Short-term financial assets at fair value through profit or loss	29,758	29,758	27,112	27,112
Trade receivables	43,660,885	(*)	36,647,393	(*)
Financial assets at fair value through other comprehensive income	9,202,104	9,202,104	7,481,297	7,481,297
Financial assets at fair value through profit or loss	1,360,016	1,360,016	1,431,394	1,431,394
Other <sup>(*2)</sup>	10,318,127	493,477	14,840,275	546,021
<b>Total financial assets</b>	165,336,645		152,807,569	
<b>Financial liabilities</b>				
Trade payables	13,113,267	(*)	11,319,824	(*)
Short-term borrowings	10,626,592	(*)	7,114,601	(*)
Other payables	13,131,706	(*)	13,996,395	(*)
Current portion of long-term liabilities	2,114,833	557,099	1,308,875	6,757
- Long-term borrowings	1,550,725	(*) <sup>(*3)</sup>	1,302,521	(*) <sup>(*3)</sup>
- Debentures	564,108	557,099	6,354	6,757
Debentures	20,573	23,873	537,618	529,254
Long-term borrowings	3,719,386	(*) <sup>(*3)</sup>	3,724,850	(*) <sup>(*3)</sup>
Long-term other payables	4,812,132	(*)	4,907,875	(*)
Other <sup>(*2)</sup>	12,314,496	72,333	11,414,008	83,463
<b>Total financial liabilities</b>	59,852,985		54,324,046	

(\*) Carrying amount is a reasonable approximation of fair value.

(\*) Assets measured at the cost of ₩ 9,824,650 million and ₩ 14,294,254 million as of June 30, 2024 and December 31, 2023, respectively, and liabilities measured at the cost of ₩ 12,242,163 million, ₩ 11,330,545 million as of June 30, 2024 and December 31, 2023 respectively, 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*.

- (2) Fair value hierarchy classifications of the financial instruments that are measured or disclosed at fair value as of June 30, 2024 and December 31, 2023 are as follows:

<i>(In millions of Korean won)</i>	<b>June 30, 2024</b>			
	<b>Level 1</b>	<b>Level 2</b>	<b>Level 3</b>	<b>Total balance</b>
<b>1) Assets</b>				
Short-term financial assets at fair value through profit or loss	-	29,758	-	29,758
Financial assets at fair value through other comprehensive income	6,693,493	-	2,508,611	9,202,104
Financial assets at fair value through profit or loss	135,120	-	1,224,896	1,360,016
Other	-	117,757	375,720	493,477
<b>2) Liabilities</b>				
Current portion of debentures	-	557,099	-	557,099
Debentures	-	23,873	-	23,873
Other	-	72,333	-	72,333

<i>(In millions of Korean won)</i>	<b>December 31, 2023</b>			
	<b>Level 1</b>	<b>Level 2</b>	<b>Level 3</b>	<b>Total balance</b>
<b>1) Assets</b>				
Short-term financial assets at fair value through profit or loss	-	27,112	-	27,112
Financial assets at fair value through other comprehensive income	5,250,993	-	2,230,304	7,481,297
Financial assets at fair value through profit or loss	347,221	-	1,084,173	1,431,394
Other	-	130,364	415,657	546,021
<b>2) Liabilities</b>				
Current portion of debentures	-	6,757	-	6,757
Debentures	-	529,254	-	529,254
Other	-	83,463	-	83,463

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 reporting 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. 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 is determined by using valuation techniques. These valuation techniques maximize the use of observable market data where available and rely as little as possible on entity-specific estimates. If all significant inputs required to measure the fair value of an instrument are observable, the instrument is included in Level 2.

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 in line with the financial reporting timelines. 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 determined using forward exchange rates at the reporting date, with the resulting value discounted to present value

Other techniques, such as discounted cash flow analysis, binomial distribution model, etcetera, 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 proper interest rates 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 June 30, 2024.

*(In millions of Korean won and percentage)*

Classification	Fair value	Valuation technique	Level 3 inputs	Input range
<b>Financial assets at fair value through other comprehensive income</b>				
Samsung Venture Investment	33,309	Discounted cash flow	Permanent growth rate	1.0%
			Weighted average cost of capital	16.0%
MiCo Ceramics Co., Ltd.	39,621	Discounted cash flow	Permanent growth rate	0.0%
			Weighted average cost of capital	17.1%
TCL China Star Optoelectronics Technology Co., Ltd. (CSOT)	1,373,739	Discounted cash flow	Permanent growth rate	0.0%
			Weighted average cost of capital	9.7%
China Star Optoelectronics Semiconductor Display Technology Ltd. (CSOSDT)	234,974	Discounted cash flow	Permanent growth rate	0.0%
			Weighted average cost of capital	9.7%
<b>Others</b>				
Call option on equity instruments	344,974	Binomial model	Risk-free rate	3.3%
			Price volatility	66.6%

Put option on equity instruments	30,746	Binomial model	Risk-free rate	3.9%~5.2%, 1.7%
			Price volatility	21.4%, 31.5%

(4) Changes in Level 3 instruments for the six-month periods ended June 30, 2024 and 2023 are as follows:

<i>(In millions of Korean won)</i>	2024	2023
<b>Financial assets</b>		
Balance as of January 1	3,730,134	3,303,227
Acquisitions	160,771	120,995
Disposals	(13,928)	(3,216,022)
Amount recognized in profit for the period	(5,233)	248,191
Amount recognized in other comprehensive income	104,246	3,124,848
Other	133,237	(88,555)
<b>Balance as of June 30</b>	<b>4,109,227</b>	<b>3,492,684</b>

<i>(In millions of Korean won)</i>	2024	2023
<b>Financial liabilities</b>		
Balance as of January 1	-	7,404
Amount recognized in profit for the period	-	-
<b>Balance as of June 30</b>	<b>-</b>	<b>7,404</b>

(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 income or loss before tax 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	
	Profit or loss	Equity	Profit or loss	Equity
Financial assets at fair value through other comprehensive income <sup>(*)</sup>	-	192,922	-	(128,149)
Others <sup>(*)</sup>	97,165	-	(91,127)	-

(\*) For equity securities, changes in fair value are calculated by increasing or the growth rate (-1%~1%) and the discount rate, which are significant unobservable inputs.

(\*) Changes in fair value were calculated based on changes in underlying asset price (20%) and price volatility (10%), which are significant unobservable inputs.

## 26. 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 segment information reported to the Management Committee. The Management Committee reviews the operating profits of each operating segment in order to evaluate the performance and to make strategic decisions regarding the allocation of resources to each segment.

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 DX, DS, SDC, Harman, and others.

The segment information including depreciation, amortization and operating profits is prepared after adjusting intercompany transactions. 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 three-month period ended June 30, 2024

<i>(In millions of Korean won)</i>	<b>DX</b>	<b>DS</b>	<b>SDC</b>	<b>Harman</b>	<b>Intercompany reconciliations</b>	<b>Total<sup>(*)</sup></b>
Revenue	42,070,812	28,556,551	7,646,160	3,619,094	(7,824,315)	74,068,302
Depreciation	642,611	7,997,543	600,870	88,150	-	9,375,848
Amortization	406,325	172,900	58,090	55,240	-	746,072
Operating profit	2,722,479	6,450,960	1,010,107	320,086	-	10,443,878

<sup>(\*)</sup> Other operating segments are not separately disclosed.

Revenue by major product for the three-month period ended June 30, 2024 are as follows:

<i>(In millions of Korean won)</i>	<b>TV, monitor, and other</b>	<b>Smartphone and other</b>	<b>Memory</b>	<b>Display panels</b>	<b>Total<sup>(*)</sup></b>
Revenue	7,543,535	26,641,045	21,737,835	7,646,160	74,068,302

<sup>(\*)</sup> Other operating segments are not separately disclosed.

#### (2) For the six-month period ended June 30, 2024

<i>(In millions of Korean won)</i>	<b>DX</b>	<b>DS</b>	<b>SDC</b>	<b>Harman</b>	<b>Intercompany reconciliations</b>	<b>Total<sup>(*)</sup></b>
Revenue	89,363,554	51,693,841	13,032,578	6,819,344	(14,925,414)	145,983,903
Depreciation	1,282,358	15,846,606	1,208,284	173,547	-	18,607,158
Amortization	808,861	325,346	114,475	108,492	-	1,465,554
Operating profit	6,797,370	8,364,975	1,350,791	560,925	-	17,049,887

<sup>(\*)</sup> Other operating segments are not separately disclosed.

Revenue by major product for the six-month period ended June 30, 2024 are as follows:

<i>(In millions of Korean won)</i>	<b>TV, monitor, and other</b>	<b>Smartphone and other</b>	<b>Memory</b>	<b>Display panels</b>	<b>Total<sup>(*)</sup></b>
Revenue	14,777,506	59,432,418	39,232,102	13,032,578	145,983,903

<sup>(\*)</sup> Other operating segments are not separately disclosed.

(3) For the three-month period ended June 30, 2023

<i>(In millions of Korean won)</i>	<b>DX</b>	<b>DS</b>	<b>SDC</b>	<b>Harman</b>	<b>Intercompany reconciliations</b>	<b>Total<sup>(*)</sup></b>
Revenue	40,206,174	14,729,264	6,483,066	3,495,745	(4,908,716)	60,005,533
Depreciation	640,513	7,188,749	804,766	83,040	-	8,767,744
Amortization	433,138	192,575	55,624	50,578	-	790,853
Operating profit	3,829,380	(4,361,844)	843,069	251,381	-	668,547

<sup>(\*)</sup> Other operating segments are not separately disclosed.

Revenue by major product for the three-month period ended June 30, 2023 are as follows:

<i>(In millions of Korean won)</i>	<b>TV, monitor, and other</b>	<b>Smartphone and other</b>	<b>Memory</b>	<b>Display panels</b>	<b>Total<sup>(*)</sup></b>
Revenue	7,245,758	24,608,693	8,967,359	6,483,066	60,005,533

<sup>(\*)</sup> Other operating segments are not separately disclosed.

(4) For the six-month period ended June 30, 2023

<i>(In millions of Korean won)</i>	<b>DX</b>	<b>DS</b>	<b>SDC</b>	<b>Harman</b>	<b>Intercompany reconciliations</b>	<b>Total<sup>(*)</sup></b>
Revenue	86,428,687	28,463,739	13,097,217	6,661,642	(10,900,381)	123,750,904
Depreciation	1,255,917	14,411,510	1,637,600	163,068	-	17,568,639
Amortization	850,496	399,184	110,647	99,681	-	1,576,451
Operating profit	8,038,140	(8,943,698)	1,619,085	380,330	-	1,308,725

<sup>(\*)</sup> Other operating segments are not separately disclosed.

Revenue by major product for the six-month period ended June 30, 2023 are as follows:

<i>(In millions of Korean won)</i>	<b>TV, monitor, and other</b>	<b>Smartphone and other</b>	<b>Memory</b>	<b>Display panels</b>	<b>Total<sup>(*)</sup></b>
Revenue	14,680,693	55,353,244	17,884,356	13,097,217	123,750,904

<sup>(\*)</sup> Other operating segments are not separately disclosed.

## (B) Regional information

The regional information provided to the Management Committee for the reportable segments as of and for the three and six-month periods ended June 30, 2024 and 2023 are as follows:

### (1) As of and for the three-month period ended June 30, 2024

<i>(In millions of Korean won)</i>	<b>Korea</b>	<b>America</b>	<b>Europe</b>	<b>Asia and Africa</b>	<b>China</b>	<b>Intercompany elimination</b>	<b>Total</b>
Revenue	9,716,061	28,106,541	11,950,985	11,964,076	12,330,639	-	74,068,302
Non-current assets <sup>(*)</sup>	168,415,310	24,771,439	6,530,006	9,323,143	11,223,820	(2,190,612)	218,073,106

<sup>(\*)</sup> Financial instruments, deferred tax assets, and investments in associates and joint ventures are excluded from non-current assets.

### (2) As of and for the six-month period ended June 30, 2024

<i>(In millions of Korean won)</i>	<b>Korea</b>	<b>America</b>	<b>Europe</b>	<b>Asia and Africa</b>	<b>China</b>	<b>Intercompany elimination</b>	<b>Total</b>
Revenue	19,129,508	53,495,384	25,170,012	24,643,389	23,545,610	-	145,983,903
Non-current assets <sup>(*)</sup>	168,415,310	24,771,439	6,530,006	9,323,143	11,223,820	(2,190,612)	218,073,106

<sup>(\*)</sup> Financial instruments, deferred tax assets, and investments in associates and joint ventures are excluded from non-current assets.

### (3) As of and for the three-month period ended June 30, 2023

<i>(In millions of Korean won)</i>	<b>Korea</b>	<b>America</b>	<b>Europe</b>	<b>Asia and Africa</b>	<b>China</b>	<b>Intercompany elimination</b>	<b>Total</b>
Revenue	10,269,812	21,321,961	11,064,655	11,012,989	6,336,116	-	60,005,533
Non-current assets <sup>(*)</sup>	156,560,136	16,470,864	6,132,379	9,199,292	13,857,391	(919,886)	201,300,176

<sup>(\*)</sup> Financial instruments, deferred tax assets, and investments in associates and joint ventures are excluded from non-current assets.

### (4) As of and for the six-month period ended June 30, 2023

<i>(In millions of Korean won)</i>	<b>Korea</b>	<b>America</b>	<b>Europe</b>	<b>Asia and Africa</b>	<b>China</b>	<b>Intercompany elimination</b>	<b>Total</b>
Revenue	21,570,240	44,084,412	23,647,578	22,547,328	11,901,346	-	123,750,904
Non-current assets <sup>(*)</sup>	156,560,136	16,470,864	6,132,379	9,199,292	13,857,391	(919,886)	201,300,176

<sup>(\*)</sup> Financial instruments, deferred tax assets, and investments in associates and joint ventures are excluded from non-current assets.



## 27. Related Party Transactions

### (A) Transactions with related parties

Transactions with related parties for the six-month periods ended June 30, 2024 and 2023 are as follows:

		2024			
(In millions of Korean won)	Name of company <sup>(*)</sup>	Sales	Disposal of non-current assets	Purchases	Purchase of non-current assets
Associates and joint ventures	Samsung SDS Co., Ltd.	71,213	-	1,003,700	127,410
	Samsung Electro-Mechanics Co., Ltd.	34,642	-	646,831	-
	Samsung SDI Co., Ltd.	60,213	-	324,582	14,420
	Cheil Worldwide Inc.	33,769	-	475,811	11,582
	Other	556,539	122	5,977,736	134,914
	<b>Total</b>	756,376	122	8,428,660	288,326
Other related parties	Samsung C&T Co., Ltd.	15,182	-	120,875	3,064,307
	Other	345,332	-	728,388	2,394,910
	<b>Total</b>	360,514	-	849,263	5,459,217
Other <sup>(*)</sup>	Samsung E&A Co., Ltd.	375	-	29,732	1,554,928
	S-1 Corporation	3,800	-	264,196	9,630
	Other	117,724	-	151,299	490,573
	<b>Total</b>	121,899	-	445,227	2,055,131

(\*) Transactions with separate entities that are related parties of the Company.

(\*) 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.

		2023			
(In millions of Korean won)	Name of company <sup>(*)</sup>	Sales	Disposal of non-current assets	Purchases	Purchase of non-current assets
Associates and joint ventures	Samsung SDS Co., Ltd.	101,310	-	970,023	152,478
	Samsung Electro-Mechanics Co., Ltd.	51,439	-	610,203	60
	Samsung SDI Co., Ltd.	69,556	-	363,305	16,983
	Cheil Worldwide Inc.	36,039	-	440,390	76
	Other	466,197	-	6,373,995	51,275
	<b>Total</b>	724,541	-	8,757,916	220,872
Other related parties	Samsung C&T Co., Ltd.	27,964	70	133,436	1,994,302
	Other	262,577	-	951,690	1,548,222
	<b>Total</b>	290,541	70	1,085,126	3,542,524
Other <sup>(*)</sup>	Samsung E&A Co., Ltd.	761	-	15,319	1,400,444
	S-1 Corporation	5,381	-	261,314	23,155
	Other	96,497	-	387,511	196,225
	<b>Total</b>	102,639	-	664,144	1,619,824

(\*) Transactions with separate entities that are related parties of the Company.

(\*) 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 June 30, 2024 and December 31, 2023 are as follows:

<i>(In millions of Korean won)</i>		Name of company <sup>(*)</sup>	June 30, 2024	
			Receivables	Payables <sup>(*)</sup>
Associates and joint ventures		Samsung SDS Co., Ltd.	5,727	564,714
		Samsung Electro-Mechanics Co., Ltd.	1,550	153,366
		Samsung SDI Co., Ltd.	121,972	54,670
		Cheil Worldwide Inc.	93	298,329
		Other	259,143	1,119,180
		<b>Total</b>	<b>388,485</b>	<b>2,190,259</b>
Other related parties		Samsung C&T Co., Ltd.	211,722	584,318
		Other	37,485	342,430
			<b>Total</b>	<b>249,207</b>
Other <sup>(*)</sup>		Samsung E&A Co., Ltd.	248	1,208,907
		S-1 Corporation	1,428	49,469
		Other	14,067	145,716
			<b>Total</b>	<b>15,743</b>

(\*) Balances due from and to separate entities that are related parties of the Company.

(\*) Payables and others include lease liabilities.

(\*) 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 <sup>(*)</sup>	December 31, 2023	
			Receivables	Payables <sup>(*)</sup>
Associates and joint ventures		Samsung SDS Co., Ltd.	84,747	458,723
		Samsung Electro-Mechanics Co., Ltd.	1,894	138,405
		Samsung SDI Co., Ltd.	117,690	92,854
		Cheil Worldwide Inc.	137	440,414
		Other	310,708	1,268,131
		<b>Total</b>	<b>515,176</b>	<b>2,398,527</b>
Other related parties		Samsung C&T Co., Ltd.	213,538	1,955,976
		Other	23,155	318,355
			<b>Total</b>	<b>236,693</b>
Other <sup>(*)</sup>		Samsung E&A Co., Ltd.	305	807,098
		S-1 Corporation	1,289	49,955
		Other	16,096	390,073
			<b>Total</b>	<b>17,690</b>

(\*) Balances due from and to separate entities that are related parties of the Company.

(\*) Payables and others include lease liabilities.

(\*) 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 six-month periods ended June 30, 2024 and 2023, the Company invested ₩ 9,342 million and ₩ 65,182 million, respectively, in associates and joint ventures. In addition, the Company has made capital recovery of ₩ 18,965 million and ₩ 17,839 million from its investments in associates and joint ventures during the six-month periods ended June 30, 2024 and 2023, respectively.
- (D) For the six-month periods ended June 30, 2024 and 2023, the Company declared dividends of ₩ 813,272 million and ₩ 825,850 million, respectively, to related parties|. In addition, for the six-month periods ended June 30, 2024 and 2023, the Company declared dividends of ₩ 64,116 million and ₩ 64,116 million, respectively, 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 June 30, 2024, there is no dividends payable outstanding to the entities that belong to the same large enterprise group according to the Monopoly Regulation and Fair Trade Act.
- (E) For the six-month periods ended June 30, 2024 and 2023, the Company entered into lease agreements with its related parties amounting to ₩ 23,691 million and ₩ 1,762 million, respectively, and the lease payments made to the related parties are ₩ 15,334 million and ₩ 10,259 million, respectively.
- (F) Key management compensation

The compensation paid or payable to key management (executive directors) for their services for the six-month periods ended June 30, 2024 and 2023 consists of:

<i>(In millions of Korean won)</i>	<b>2024</b>	<b>2023</b>
Short-term employee benefits	4,832	5,154
Post-employment benefits	336	279
Other long-term employee benefits	4,424	3,917

## 28. Assets and Liabilities Held-for-Sale

During the year ended December 31, 2023, the Company's management decided to sell its 56.8% ownership in Dowoosys Co., Ltd. to three parties, including New Power Plasma Co., Ltd. The sale and purchase agreement was signed on December 7, 2023, and the sale was completed on January 31, 2024.

(1) Details of assets and liabilities classified as held-for-sale as of December 31, 2023 are as follows:

<i>(In millions of Korean won)</i>	<b>December 31, 2023</b>
<b>Assets held-for-sale</b>	
Cash and cash equivalents	14,153
Trade receivables	1,316
Inventories	4,697
Other current assets	13,134
Property, plant and equipment and intangible assets	181,251
Other non-current assets	3,313
<b>Total</b>	<b>217,864</b>
<b>Liabilities held-for-sale</b>	
Current liabilities	27,608
Non-current liabilities	34,046
<b>Total</b>	<b>61,654</b>

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

<i>(In millions of Korean won)</i>	<b>December 31, 2023</b>
Foreign currency translation, net of tax	(217)

#### 4. Non-consolidated financial statements

##### Samsung Electronics Co., Ltd.

#### INTERIM SEPARATE STATEMENTS OF FINANCIAL POSITION

(In millions of Korean won and in thousands of US dollars (Note 2.3))

	Notes	June 30, 2024 KRW	December 31, 2023 KRW	June 30, 2024 USD	December 31, 2023 USD
<b>Assets</b>					
<b>Current assets</b>					
Cash and cash equivalents	3, 25	7,818,179	6,061,451	5,793,401	4,491,636
Short-term financial instruments	3, 25	3,819,491	50,071	2,830,307	37,103
Trade receivables	3, 25	35,819,815	27,363,016	26,543,081	20,276,452
Non-trade receivables	3, 25	1,584,303	1,910,054	1,173,995	1,415,382
Prepaid expenses		1,484,079	1,349,755	1,099,727	1,000,191
Inventories	5	31,861,509	29,338,151	23,609,910	21,740,060
Other current assets	3, 25	3,434,673	2,475,944	2,545,150	1,834,716
		<b>85,822,049</b>	<b>68,548,442</b>	<b>63,595,571</b>	<b>50,795,540</b>
<b>Non-current assets</b>					
Financial assets at fair value through other comprehensive income	3, 4, 25	2,189,910	1,854,503	1,622,760	1,374,218
Financial assets at fair value through profit or loss	3, 4, 25	-	1	-	1
Investments in subsidiaries, associates and joint ventures	6	57,551,517	57,392,438	42,646,635	42,528,755
Property, plant and equipment	7	143,072,339	140,579,161	106,018,993	104,171,506
Intangible assets	8	10,834,063	10,440,211	8,028,222	7,736,371
Net defined benefit assets	11	3,210,908	3,745,697	2,379,336	2,775,624
Deferred income tax assets		11,081,141	9,931,358	8,211,311	7,359,302
Other non-current assets	3, 25	3,873,511	4,365,478	2,870,336	3,234,892
		<b>231,813,389</b>	<b>228,308,847</b>	<b>171,777,593</b>	<b>169,180,669</b>
<b>Total assets</b>		<b>317,635,438</b>	<b>296,857,289</b>	<b>235,373,164</b>	<b>219,976,209</b>

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

**Samsung Electronics Co., Ltd.**

**INTERIM SEPARATE STATEMENTS OF FINANCIAL POSITION**

*(In millions of Korean won and in thousands of US dollars (Note 2.3))*

	<b>Notes</b>	<b>June 30, 2024</b>	<b>December 31, 2023</b>	<b>June 30, 2024</b>	<b>December 31, 2023</b>
		KRW	KRW	USD	USD
<b>Liabilities and Equity</b>					
<b>Current liabilities</b>					
Trade payables	3, 25	11,513,195	7,943,834	8,531,470	5,886,514
Short-term borrowings	3, 9, 25	9,676,020	5,625,163	7,170,092	4,168,340
Other payables	3, 25	11,248,820	15,256,046	8,335,563	11,304,984
Advances received	14	259,924	302,589	192,608	224,224
Withholdings	3, 25	553,955	445,470	410,490	330,101
Accrued expenses	3, 14, 25	7,956,782	6,931,991	5,896,108	5,136,721
Current income tax liabilities		2,764,859	-	2,048,807	-
Current portion of long-term liabilities	3, 9, 10, 25	265,348	228,491	196,627	169,316
Provisions	12	5,519,628	4,540,702	4,090,137	3,364,736
Other current liabilities	14	365,977	500,815	271,196	371,112
		<b>50,124,508</b>	<b>41,775,101</b>	<b>37,143,098</b>	<b>30,956,048</b>
<b>Non-current liabilities</b>					
Debentures	3, 10, 25	20,573	19,064	15,245	14,127
Long-term borrowings	3, 9, 25	22,869,831	22,902,035	16,946,927	16,970,790
Long-term other payables	3, 25	4,858,973	4,942,826	3,600,580	3,662,717
Long-term provisions	12	2,876,425	2,413,133	2,131,479	1,788,172
Other non-current liabilities		14,384	17,356	10,658	12,860
		<b>30,640,186</b>	<b>30,294,414</b>	<b>22,704,889</b>	<b>22,448,666</b>
<b>Total liabilities</b>		<b>80,764,694</b>	<b>72,069,515</b>	<b>59,847,987</b>	<b>53,404,714</b>

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

**Samsung Electronics Co., Ltd.**

**INTERIM SEPARATE STATEMENTS OF FINANCIAL POSITION**

*(In millions of Korean won and in thousands of US dollars (Note 2.3))*

	Notes	June 30, 2024 KRW	December 31, 2023 KRW	June 30, 2024 USD	December 31, 2023 USD
<b>Equity</b>					
Preference shares	15	119,467	119,467	88,527	88,527
Ordinary shares	15	778,047	778,047	576,546	576,546
Share premium		4,403,893	4,403,893	3,263,358	3,263,358
Retained earnings	16	231,894,075	219,963,351	171,837,382	162,996,517
Other components of equity	17	(324,738)	(476,984)	(240,636)	(353,453)
<b>Total equity</b>		<b>236,870,744</b>	<b>224,787,774</b>	<b>175,525,177</b>	<b>166,571,495</b>
<b>Total liabilities and equity</b>		<b>317,635,438</b>	<b>296,857,289</b>	<b>235,373,164</b>	<b>219,976,209</b>

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

**Samsung Electronics Co., Ltd.**

**INTERIM SEPARATE STATEMENTS OF PROFIT OR LOSS**

*(In millions of Korean won and in thousands of US dollars (Note 2.3))*

	Notes	For the three-month periods ended June 30,				For the six-month periods ended June 30,			
		2024	2023	2024	2023	2024	2023	2024	2023
		KRW	KRW	USD	USD	KRW	KRW	USD	USD
<b>Revenue</b>	26	53,734,118	39,729,088	39,817,879	29,439,918	104,973,735	81,897,767	77,787,291	60,687,613
<b>Cost of sales</b>	18	36,181,464	33,808,570	26,811,069	25,052,715	74,954,314	70,922,059	55,542,399	52,554,430
<b>Gross profit</b>		<b>17,552,654</b>	<b>5,920,518</b>	<b>13,006,810</b>	<b>4,387,203</b>	<b>30,019,421</b>	<b>10,975,708</b>	<b>22,244,892</b>	<b>8,133,183</b>
Selling and administrative expenses	18, 19	10,330,163	9,618,621	7,654,824	7,127,559	20,789,550	18,582,572	15,405,403	13,769,996
<b>Operating profit (loss)</b>	26	<b>7,222,491</b>	<b>(3,698,103)</b>	<b>5,351,986</b>	<b>(2,740,356)</b>	<b>9,229,871</b>	<b>(7,606,864)</b>	<b>6,839,489</b>	<b>(5,636,813)</b>
Other non-operating income	20	1,348,850	13,533,358	999,521	10,028,443	9,597,968	22,103,342	7,112,255	16,378,946
Other non-operating expense	20	85,299	39,191	63,208	29,041	356,386	131,431	264,088	97,393
Financial income	21	1,660,458	1,829,316	1,230,427	1,355,554	3,071,282	3,982,674	2,275,871	2,951,228
Financial expense	21	1,692,067	2,156,852	1,253,850	1,598,263	3,103,005	4,477,000	2,299,379	3,317,532
<b>Profit before income tax</b>		<b>8,454,433</b>	<b>9,468,528</b>	<b>6,264,876</b>	<b>7,016,337</b>	<b>18,439,730</b>	<b>13,870,721</b>	<b>13,664,148</b>	<b>10,278,436</b>
Income tax expense (benefit)	22	1,356,016	(116,105)	1,004,830	(86,036)	1,603,876	127,993	1,188,499	94,845
<b>Profit for the period</b>		<b>7,098,417</b>	<b>9,584,633</b>	<b>5,260,046</b>	<b>7,102,373</b>	<b>16,835,854</b>	<b>13,742,728</b>	<b>12,475,649</b>	<b>10,183,591</b>
Earnings per share <i>(in Korean won, in US dollars)</i>	23								
- Basic		1,045	1,411	0.77	1.05	2,479	2,023	1.84	1.50
- Diluted		1,045	1,411	0.77	1.05	2,479	2,023	1.84	1.50

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



**Samsung Electronics Co., Ltd.**

**INTERIM SEPARATE STATEMENTS COMPREHENSIVE INCOME**

*(In millions of Korean won and in thousands of US dollars (Note 2.3))*

	Notes	For the three-month periods ended June 30,				For the six-month periods ended June 30,			
		2024	2023	2024	2023	2024	2023	2024	2023
		KRW	KRW	USD	USD	KRW	KRW	USD	USD
<b>Profit for the period</b>		<b>7,098,417</b>	<b>9,584,633</b>	<b>5,260,046</b>	<b>7,102,373</b>	<b>16,835,854</b>	<b>13,742,728</b>	<b>12,475,649</b>	<b>10,183,591</b>
<b>Other comprehensive income (loss)</b>									
<b>Items that will not be reclassified subsequently to profit or loss :</b>									
Gain on valuation of financial assets at fair value through other comprehensive income, net of tax	17	103,200	182,793	76,473	135,453	246,859	270,112	182,927	200,158
Remeasurement of net defined benefit assets, net of tax	17	(18,173)	(94,985)	(13,467)	(70,386)	(94,613)	(335,109)	(70,110)	(248,322)
<b>Items that may be reclassified subsequently to profit or loss:</b>		-	-	-	-	-	-	-	-
<b>Other comprehensive income (loss) for the period, net of tax</b>		<b>85,027</b>	<b>87,808</b>	<b>63,006</b>	<b>65,067</b>	<b>152,246</b>	<b>(64,997)</b>	<b>112,817</b>	<b>(48,164)</b>
<b>Total comprehensive income for the period</b>		<b>7,183,444</b>	<b>9,672,441</b>	<b>5,323,052</b>	<b>7,167,440</b>	<b>16,988,100</b>	<b>13,677,731</b>	<b>12,588,466</b>	<b>10,135,427</b>

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

**Samsung Electronics Co., Ltd.**

**INTERIM SEPARATE STATEMENTS OF CHANGES IN EQUITY**

*(In millions of Korean won)*

<b>For the six-month period ended June 30, 2024</b>	<b>Notes</b>	<b>Preference shares</b>	<b>Ordinary shares</b>	<b>Share premium</b>	<b>Retained earnings</b>	<b>Other components of equity</b>	<b>Total</b>
<b>Balance as of January 1, 2024</b>		<b>119,467</b>	<b>778,047</b>	<b>4,403,893</b>	<b>219,963,351</b>	<b>(476,984)</b>	<b>224,787,774</b>
Profit for the period		-	-	-	16,835,854	-	16,835,854
Gain on valuation of financial assets at fair value through other comprehensive income, net of tax	17	-	-	-	-	246,859	246,859
Remeasurement of net defined benefit assets, net of tax	17	-	-	-	-	(94,613)	(94,613)
<b>Total comprehensive income for the period</b>		<b>-</b>	<b>-</b>	<b>-</b>	<b>16,835,854</b>	<b>152,246</b>	<b>16,988,100</b>
Dividends declared		-	-	-	(4,905,130)	-	(4,905,130)
<b>Total transactions with owners</b>		<b>-</b>	<b>-</b>	<b>-</b>	<b>(4,905,130)</b>	<b>-</b>	<b>(4,905,130)</b>
<b>Balance as of June 30, 2024</b>		<b>119,467</b>	<b>778,047</b>	<b>4,403,893</b>	<b>231,894,075</b>	<b>(324,738)</b>	<b>236,870,744</b>

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

**Samsung Electronics Co., Ltd.**

**INTERIM SEPARATE STATEMENTS OF CHANGES IN EQUITY**

*(In thousands of US dollars (Note 2.3))*

<b>For the six-month period ended June 30, 2024</b>	<b>Notes</b>	<b>Preference shares</b>	<b>Ordinary shares</b>	<b>Share premium</b>	<b>Retained earnings</b>	<b>Other component s of equity</b>	<b>Total</b>
<b>Balance as of January 1, 2024</b>		<b>88,527</b>	<b>576,546</b>	<b>3,263,358</b>	<b>162,996,517</b>	<b>(353,453)</b>	<b>166,571,495</b>
Profit for the period		-	-	-	12,475,649	-	12,475,649
Gain on valuation of financial assets at fair value through other comprehensive income, net of tax	17	-	-	-	-	182,927	182,927
Remeasurement of net defined benefit assets, net of tax	17	-	-	-	-	(70,110)	(70,110)
<b>Total comprehensive income for the period</b>		<b>-</b>	<b>-</b>	<b>-</b>	<b>12,475,649</b>	<b>112,817</b>	<b>12,588,466</b>
Dividends declared		-	-	-	(3,634,784)	-	(3,634,784)
<b>Total transactions with owners</b>		<b>-</b>	<b>-</b>	<b>-</b>	<b>(3,634,784)</b>	<b>-</b>	<b>(3,634,784)</b>
<b>Balance as of June 30, 2024</b>		<b>88,527</b>	<b>576,546</b>	<b>3,263,358</b>	<b>171,837,382</b>	<b>(240,636)</b>	<b>175,525,177</b>

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

Samsung Electronics Co., Ltd.

**INTERIM SEPARATE STATEMENTS OF CHANGES IN EQUITY**

(In millions of Korean won)

For the six-month period ended June 30, 2023	Notes	Preference shares	Ordinary shares	Share premium	Retained earnings	Other component s of equity	Total
<b>Balance as of January 1, 2023</b>		119,467	778,047	4,403,893	204,388,016	(273,232)	209,416,191
Profit for the period		-	-	-	13,742,728	-	13,742,728
Gain on valuation of financial assets at fair value through other comprehensive income, net of tax		-	-	-	-	270,112	270,112
Remeasurement of net defined benefit assets net of tax		-	-	-	-	(335,109)	(335,109)
<b>Total comprehensive income (loss) for the period</b>		-	-	-	13,742,728	(64,997)	13,677,731
Dividends declared		-	-	-	(4,905,130)	-	(4,905,130)
<b>Total transactions with owners</b>		-	-	-	(4,905,130)	-	(4,905,130)
<b>Balance as of June 30, 2023</b>		119,467	778,047	4,403,893	213,225,614	(338,229)	218,188,792

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

**Samsung Electronics Co., Ltd.**

**INTERIM SEPARATE STATEMENTS OF CHANGES IN EQUITY**

*(In thousands of US dollars (Note 2.3))*

For the six-month period ended June 30, 2023	Notes	Preference shares	Ordinary shares	Share premium	Retained earnings	Other component s of equity	Total
<b>Balance as of January 1, 2023</b>		88,527	576,546	3,263,358	151,454,933	(202,469)	155,180,895
Profit for the period		-	-	-	10,183,591	-	10,183,591
Gain on valuation of financial assets at fair value through other comprehensive income, net of tax		-	-	-	-	200,158	200,158
Remeasurement of net defined benefit assets, net of tax		-	-	-	-	(248,322)	(248,322)
<b>Total comprehensive income (loss) for the period</b>		-	-	-	10,183,591	(48,164)	10,135,427
Dividends declared		-	-	-	(3,634,783)	-	(3,634,783)
<b>Total transactions with owners</b>		-	-	-	(3,634,783)	-	(3,634,783)
<b>Balance as of June 30, 2023</b>		88,527	576,546	3,263,358	158,003,741	(250,633)	161,681,539

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

Samsung Electronics Co., Ltd.

**INTERIM SEPARATE STATEMENTS OF CASH FLOWS**

*(In millions of Korean won and in thousands of US dollars (Note 2.3))*

	Notes	For the six-month periods ended June 30,			
		2024	2023	2024	2023
		KRW	KRW	USD	USD
<b>Operating activities</b>					
Profit for the period		16,835,854	13,742,728	12,475,649	10,183,591
Adjustments	24	5,345,859	(3,908,556)	3,961,370	(2,896,305)
Changes in assets and liabilities arising from operating activities	24	(5,173,413)	(11,838,350)	(3,833,585)	(8,772,415)
<b>Cash generated from operations</b>		<b>17,008,300</b>	<b>(2,004,178)</b>	<b>12,603,434</b>	<b>(1,485,129)</b>
Interest received		125,249	124,568	92,812	92,307
Interest paid		(249,790)	(184,726)	(185,099)	(136,885)
Dividends received		9,369,762	22,160,138	6,943,150	16,421,032
Income tax paid		(223,381)	(2,453,014)	(165,529)	(1,817,724)
<b>Net cash provided by operating activities</b>		<b>26,030,140</b>	<b>17,642,788</b>	<b>19,288,768</b>	<b>13,073,601</b>
<b>Investing activities</b>					
Net increase in short-term financial instruments		(3,263,880)	(1,266)	(2,418,590)	(938)
Disposal of financial assets at fair value through other comprehensive income		-	22	-	16
Disposal of financial assets at fair value through profit or loss		1	222	1	165
Disposal of investments in subsidiaries, associates and joint ventures		105,730	107,710	78,348	79,815
Acquisition of investments in subsidiaries, associates and joint ventures		(298,433)	(69,514)	(221,144)	(51,511)
Disposal of property, plant and equipment		40,647	97,006	30,120	71,883
Acquisition of property, plant and equipment		(18,568,179)	(24,524,605)	(13,759,331)	(18,173,142)
Disposal of intangible assets		13,041	11,380	9,664	8,433
Acquisition of intangible assets		(1,267,923)	(1,499,642)	(939,552)	(1,111,260)
Cash outflow from other investing activities		(67,491)	(55,835)	(50,012)	(41,375)
<b>Net cash used in investing activities</b>		<b>(23,306,487)</b>	<b>(25,934,522)</b>	<b>(17,270,496)</b>	<b>(19,217,914)</b>

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

**Samsung Electronics Co., Ltd.**

**INTERIM SEPARATE STATEMENTS OF CASH FLOWS**

*(In millions of Korean won and in thousands of US dollars (Note 2.3))*

Notes	<b>For the six-month periods ended June 30,</b>			
	<b>2024</b>	<b>2023</b>	<b>2024</b>	<b>2023</b>
	KRW	KRW	USD	USD
<b>Financing activities</b>				
Net increase in short-term borrowings	4,043,477	268,775	2,996,284	199,167
Increase in debentures and long-term borrowings	-	21,990,000	-	16,294,957
Repayment of debentures and long-term borrowings	(105,934)	(80,125)	(78,499)	(59,374)
Dividends paid	(4,904,819)	(4,905,792)	(3,634,553)	(3,635,274)
<b>Net cash provided by (used in) financing activities</b>	<b>(967,276)</b>	<b>17,272,858</b>	<b>(716,768)</b>	<b>12,799,476</b>
Effect of foreign exchange rate changes	351	(10,247)	261	(7,593)
<b>Net increase in cash and cash equivalents</b>	<b>1,756,728</b>	<b>8,970,877</b>	<b>1,301,765</b>	<b>6,647,570</b>
<b>Cash and cash equivalents, beginning of the period</b>	<b>6,061,451</b>	<b>3,921,593</b>	<b>4,491,636</b>	<b>2,905,966</b>
<b>Cash and cash equivalents, end of the period</b>	<b>7,818,179</b>	<b>12,892,470</b>	<b>5,793,401</b>	<b>9,553,536</b>

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

## 5. Non to non-consolidated financial statements

### 1. General Information

Samsung Electronics Co., Ltd. (the “Company”) was incorporated under the laws of the Republic of Korea in 1969 and listed its shares on the Korea Stock Exchange in 1975. The Company operates two business divisions: Device eXperience (“DX”) and Device Solutions (“DS”). DX division comprises businesses for digital televisions, refrigerators, smartphones, and communication systems. DS division comprises businesses for semiconductor products such as memory, foundry and system Large Scale Integration (LSI). The Company is domiciled in the Republic of Korea and is located in Suwon, the Republic of Korea.

These financial statements have been prepared in accordance with Korean International Financial Reporting Standards (“Korean IFRS”) 1027, *Separate Financial Statements*.

### 2. Material Accounting Policies

#### 2.1 Basis of Presentation

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. The accompanying interim separate financial statements have been condensed, restructured and translated into English from the Korean language financial statements.

The interim separate financial statements for the six-month period ended June 30, 2024 have been prepared in accordance with Korean IFRS 1034, *Interim Financial Reporting*. These interim separate financial statements have been prepared in accordance with the Korean IFRS which is effective as of June 30, 2024.

#### (A) New and amended standards adopted by the Company

The Company applied the following amended standards for the first time for the annual reporting period commencing January 1, 2024:

#### Amendments to Korean IFRS 1001, *Presentation of Financial Statements*

The amendments clarify that the classification of liabilities as current or non-current should be based on rights that are in existence at the end of the reporting period, and that the classification is unaffected by management's intentions or expectations about whether an entity will exercise its right to defer settlement of a liability. The amendments also introduce a definition of settlement to make clear that settlement includes the transfer to the counterparty of the entity's own equity instruments, however, it would be excluded if an option to settle the liability by the transfer of the entity's own equity instruments is recognized separately from the liability as an equity component of a compound financial instrument. The application of amendments does not have a significant impact on the Company's interim separate financial statements.

#### Amendments to Korean IFRS 1116, *Leases*

The amendments add requirements for the subsequent measurement of sale-and-leaseback transactions that are accounted for as sales in accordance with Korean IFRS 1115, *Revenue from Contracts with Customers*. The amendments require the seller-lessee to calculate the ‘lease payments’ or ‘revised lease payments’ in a way that does not result in the seller-lessee recognizing any gain or loss for the rights of use that the seller-lessee continues to retain after the lease commences. The application of amendments does not have a significant impact on the Company's interim separate financial statements.



### Amendments to Korean IFRS 1007, *Statement of Cash Flows*, and 1107, *Financial Instruments: Presentation*

The amendments add to the disclosure objectives in Korean IFRS 1007, *Statement of Cash Flows*, that information about supplier financing arrangements should be disclosed to enable users of financial statements to assess the impact of those arrangements on the Company's liabilities and cash flows. The amendments also amend Korean IFRS 1107, *Financial Instruments: Presentation*, to add supplier financing arrangements as an example of a requirement to disclose information about an entity's exposure to concentrations of liquidity risk. The application of amendments does not have a significant impact on the Company's interim separate financial statements.

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

The amended accounting standard issued that is not yet effective for the annual reporting period commencing January 1, 2024 and has not been early adopted by the Company is as follows:

### Amendments to Korean IFRS 1021, *The Effects of Changes in Foreign Exchange Rates*

The amendments require exchangeability of two currencies should be assessed in order to clarify reporting of foreign currency transactions in the absence of normal-functioning foreign exchange market. The amendments also require applicable spot exchange rate should be determined when the assessment indicates two currencies lack exchangeability. The amendments are effective for annual reporting periods beginning on or after January 1, 2025, with early application permitted.

## **2.2 Accounting Policies**

Material accounting policies and method of computation used in the preparation of the interim separate financial statements are consistent with those of the annual separate financial statements for the year ended December 31, 2023, except for the changes due to the application of amendments of standards described in Note 2.1 and as described below.

Income tax expense for the interim period is recognized based on management's best estimate of the weighted average annual income tax rate expected for the full financial year considering global minimum top-up tax. The estimated average annual effective income tax rate is applied to the pre-tax income of the interim period.

## **2.3 Convenience Translation into United States Dollar Amounts**

The US dollar amounts provided in the financial statements represent supplementary information solely for the convenience of the reader. All Korean won amounts are expressed in US dollars at the rate of ₩ 1,349.5 to \$1, the average exchange rate for the six-month period ended June 30, 2024. 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 dollars at this or at any other rate.

## **2.4 Material Accounting Estimates and Assumptions**

In preparing the interim separate financial statements, the management of the Company makes judgements, estimates and assumptions on matters which affect the application of policies and reported amounts of assets, liabilities, income and expenses. Estimates and assumptions are continually evaluated and are based on historical experience and other factors, including expectations of future events that are believed to be reasonable under the circumstances. The resulting accounting estimates, by definition, seldom equal the related actual results.

Material accounting estimates and assumptions made in the preparation of the interim separate financial statements are consistent with those applied in the preparation of the annual separate financial statements for the year ended December 31, 2023, except for the estimates used to determine the income tax expense.

### 3. Financial Instruments by Category

Categorizations of financial assets and liabilities as of June 30, 2024 and December 31, 2023 are as follows:

(1) As of June 30, 2024

<i>(In millions of Korean won)</i>	<b>Financial assets measured at amortized cost</b>	<b>Financial assets measured at fair value through other comprehensive income</b>	<b>Financial assets measured at fair value through profit or loss</b>	<b>Total</b>
<b>Financial assets</b>				
Cash and cash equivalents	7,818,179	-	-	7,818,179
Short-term financial instruments	3,819,491	-	-	3,819,491
Trade receivables	35,819,815	-	-	35,819,815
Financial assets at fair value through other comprehensive income	-	2,189,910	-	2,189,910
Financial assets at fair value through profit or loss	-	-	-	-
Other	4,968,597	-	344,974	5,313,571
<b>Total</b>	<b>52,426,082</b>	<b>2,189,910</b>	<b>344,974</b>	<b>54,960,966</b>

<i>(In millions of Korean won)</i>	<b>Financial liabilities measured at amortized cost</b>	<b>Other financial liabilities<sup>(*)</sup></b>	<b>Total</b>
<b>Financial liabilities</b>			
Trade payables	11,513,195	-	11,513,195
Short-term borrowings	-	9,676,020	9,676,020
Other payables	11,010,018	-	11,010,018
Current portion of long-term liabilities	6,867	258,481	265,348
Debentures	20,573	-	20,573
Long-term borrowings	21,990,000	879,831	22,869,831
Long-term other payables	4,403,185	-	4,403,185
Other	4,789,062	-	4,789,062
<b>Total</b>	<b>53,732,900</b>	<b>10,814,332</b>	<b>64,547,232</b>

(\*) Other financial liabilities include lease liabilities which are not subject to categorizations and collateralized borrowing.

(2) As of December 31, 2023

<i>(In millions of Korean won)</i>	<b>Financial assets measured at amortized cost</b>	<b>Financial assets measured at fair value through other comprehensive income</b>	<b>Financial assets measured at fair value through profit or loss</b>	<b>Total</b>
<b>Financial assets</b>				
Cash and cash equivalents	6,061,451	-	-	6,061,451
Short-term financial instruments	50,071	-	-	50,071
Trade receivables	27,363,016	-	-	27,363,016
Financial assets at fair value through other comprehensive income	-	1,854,503	-	1,854,503
Financial assets at fair value through profit or loss	-	-	1	1
Other	4,972,284	-	393,235	5,365,519
<b>Total</b>	<b>38,446,822</b>	<b>1,854,503</b>	<b>393,236</b>	<b>40,694,561</b>

<i>(In millions of Korean won)</i>	<b>Financial liabilities measured at amortized cost</b>	<b>Other financial liabilities<sup>(*)</sup></b>	<b>Total</b>
<b>Financial liabilities</b>			
Trade payables	7,943,834	-	7,943,834
Short-term borrowings	-	5,625,163	5,625,163
Other payables	15,015,578	-	15,015,578
Current portion of long-term liabilities	6,354	222,137	228,491
Debentures	19,064	-	19,064
Long-term borrowings	21,990,000	912,035	22,902,035
Long-term other payables	4,486,390	-	4,486,390
Other	3,652,969	-	3,652,969
<b>Total</b>	<b>53,114,189</b>	<b>6,759,335</b>	<b>59,873,524</b>

(\*) Other financial liabilities include lease liabilities which are not subject to categorizations and collateralized borrowing.

#### 4. Financial Assets at Fair Value

(C) Details of financial assets at fair value as of June 30, 2024 and December 31, 2023 are as follows:

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

<i>(In millions of Korean won)</i>	June 30, 2024	December 31, 2023
Equity instruments	2,189,910	1,854,503

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

<i>(In millions of Korean won)</i>	June 30, 2024	December 31, 2023
Debt instruments	-	1

(D) Details of listed equity securities of financial assets at fair value as of June 30, 2024 and December 31, 2023 are as follows:

<i>(In millions of Korean won, number of shares and percentage)</i>	June 30, 2024			December 31, 2023	
	Number of shares owned	Percentage of ownership (%) <sup>(*)</sup>	Acquisition cost	Carrying amount (Market Value)	Carrying amount (Market Value)
Samsung Heavy Industries Co., Ltd.	134,027,281	15.2	932,158	1,253,155	1,038,712
Hotel Shilla Co., Ltd.	2,004,717	5.1	13,957	107,453	131,108
iMarket Korea Inc.	647,320	1.9	324	5,625	5,560
KT Skylife Co., Ltd.	240,000	0.5	3,344	1,246	1,421
Mona Yongpyong Co., Ltd.	400,000	0.8	1,869	1,340	1,220
A-Tech Solution Co., Ltd.	1,592,000	15.9	26,348	13,086	17,241
Wonik Holdings Co., Ltd.	1,759,171	2.3	15,410	5,999	5,928
Wonik IPS Co., Ltd.	1,850,936	3.8	16,214	64,413	62,839
Dongjin Semichem Co., Ltd.	2,467,894	4.8	48,277	98,839	95,508
Soulbrain Co., Ltd.	437,339	5.6	40,382	127,047	132,952
S&S Tech Corporation	1,716,116	8.0	65,933	61,265	77,740
YC Corporation	9,601,617	11.7	47,336	167,164	47,864
KCtech Co., Ltd.	1,022,216	4.9	20,720	46,357	27,395
LOTVacuum Co., Ltd.	1,267,668	7.1	18,990	19,776	25,544
New power Co., Ltd.	2,140,939	4.9	12,739	13,595	11,240
Fine Semitech Corporation	1,522,975	7.0	43,009	58,558	37,541
DNF Co., Ltd.	810,030	7.0	20,964	14,905	19,400
Marvell Technology Inc.	173,187	0.0	11,705	16,825	13,468
SoundHound AI Inc.	1,702,957	0.5	13,719	9,345	4,655
<b>Total</b>			1,353,398	2,085,992	1,757,336

(\*) Ownership represents the Company's ownership of the total ordinary shares issued by each entity.

## 5. Inventories

Inventories as of June 30, 2024 and December 31, 2023 are as follows:

<i>(In millions of Korean won)</i>	June 30, 2024			December 31, 2023		
	Gross amount	Valuation allowance	Carrying amount	Gross amount	Valuation allowance	Carrying amount
Finished goods	7,303,948	(667,741)	6,636,207	7,914,117	(1,203,662)	6,710,455
Work in process	20,630,686	(897,823)	19,732,863	21,866,523	(3,863,881)	18,002,642
Raw materials and supplies	5,976,495	(908,190)	5,068,305	4,910,170	(861,821)	4,048,349
Materials in transit	424,134	-	424,134	576,705	-	576,705
<b>Total</b>	<b>34,335,263</b>	<b>(2,473,754)</b>	<b>31,861,509</b>	<b>35,267,515</b>	<b>(5,929,364)</b>	<b>29,338,151</b>

## 6. Investments in Subsidiaries, Associates and Joint Ventures

(H) Changes in investments in subsidiaries, associates and joint ventures for the six-month periods ended June 30, 2024 and 2023 are as follows:

<i>(In millions of Korean won)</i>	2024	2023
Balance as of January 1	57,392,438	57,397,249
Acquisition	298,433	69,514
Disposal	(139,354)	(107,735)
<b>Balance as of June 30</b>	<b>57,551,517</b>	<b>57,359,028</b>

(I) Major investments in associates as of June 30, 2024 are as follows (refer to Note 27 for the list of subsidiaries):

Investee	Nature of relationship	Percentage of ownership (%) <sup>(*)</sup>	Principal business location	Fiscal period-end
Samsung Co., Ltd. Electro-Mechanics	Manufacture and supply electronic components including passive components, circuit boards, and modules	23.7	Korea	December
Samsung SDS Co., Ltd.	Provide Information Technology (IT) services including computer programming, system integration and management, and logistical services	22.6	Korea	December
Samsung Biologics Co., Ltd.	Investment in new business	31.2	Korea	December
Samsung SDI Co., Ltd. <sup>(*)</sup>	Manufacture and supply electronic components including secondary cell batteries	19.6	Korea	December
Cheil Worldwide, Inc.	Advertising agency	25.2	Korea	December

<sup>(\*)</sup> Ownership represents the Company's ownership of the total ordinary shares issued by each entity.

<sup>(\*)</sup> The Company's ownership of ordinary shares outstanding is 20.6%.

(J) Fair value of marketable investments in significant associates as of June 30, 2024 and December 31, 2023 as follows:

<i>(In millions of Korean won and number of shares)</i>	June 30, 2024		December 31, 2023		
	Number of shares held	Market value	Carrying amount	Market value	Carrying amount
Samsung Electro-Mechanics Co., Ltd.	17,693,084	2,795,507	445,244	2,710,580	445,244
Samsung SDS Co., Ltd.	17,472,110	2,594,608	560,827	2,970,259	560,827
Samsung Biologics., Co., Ltd.	22,217,309	16,151,984	1,595,892	16,885,155	1,595,892
Samsung SDI., Co., Ltd.	13,462,673	4,765,786	1,242,605	6,354,382	1,242,605
Cheil Worldwide Inc	29,038,075	534,301	491,599	552,595	491,599

## 7. Property, Plant and Equipment

(A) Changes in property, plant and equipment for the six-month periods ended June 30, 2024 and 2023 are as follows:

<i>(In millions of Korean won)</i>	2024	2023
Balance as of January 1	140,579,161	123,266,986
Acquisition and capital expenditures	16,485,664	21,892,460
Depreciation	(13,946,056)	(12,502,893)
Disposals/scrap/impairment	(43,273)	(51,823)
Other	(3,157)	(1,316)
<b>Balance as of June 30</b>	<b>143,072,339</b>	<b>132,603,414</b>

(B) Details of depreciation of property, plant and equipment for the six-month periods ended June 30, 2024 and 2023 are as follows:

<i>(In millions of Korean won)</i>	2024	2023
Cost of sales	12,801,327	11,513,134
Selling and administrative expenses and other	1,144,729	989,759
<b>Total</b>	<b>13,946,056</b>	<b>12,502,893</b>

(C) Right-of-use assets as of June 30, 2024 amount to ₩ 1,831,460 million (December 31, 2023: ₩ 1,840,913 million). During the six-month periods ended June 30, 2024 and 2023, newly recognized right-of-use assets amount to ₩ 144,538 million and ₩ 665,017 million, respectively, with relevant depreciation of ₩ 151,517 million and ₩ 107,382 million, respectively.

## 8. Intangible Assets

(A) Changes in intangible assets for the six-month periods ended June 30, 2024 and 2023 are as follows:

<i>(In millions of Korean won)</i>	2024	2023
Balance as of January 1	10,440,211	8,561,424
External acquisitions	1,607,898	3,930,568
Amortization	(1,197,385)	(1,317,524)
Disposals/scrap/impairment	(31,620)	(25,042)
Other	14,959	19,297
<b>Balance as of June 30</b>	<b>10,834,063</b>	<b>11,168,723</b>

(B) Details of amortization of intangible assets for the six-month periods ended June 30, 2024 and 2023 are as follows:

<i>(In millions of Korean won)</i>	2024	2023
Cost of sales	904,036	1,018,232
Selling and administrative expenses and other	293,349	299,292
<b>Total</b>	<b>1,197,385</b>	<b>1,317,524</b>

## 9. Borrowings

Details of the carrying amounts of borrowings as of June 30, 2024 and December 31, 2023 are as follows:

<i>(In millions of Korean won)</i>	Financial institutions	Maturity date	Interest rate (%) as of June 30, 2024	June 30, 2024	December 31, 2023
<b>Short-term borrowings</b>					
Collateralized borrowings <sup>(*)</sup>	Woori Bank and other	-	0.1~13.6	9,676,020	5,625,163
<b>Current portion of long-term borrowings</b>					
Lease liabilities <sup>(*)</sup>	-	-	2.9	258,481	222,137
<b>Long-term borrowings</b>					
Lease liabilities <sup>(*)</sup>	-	-	2.9	879,831	912,035
Non-collateralized borrowings	Samsung Display Co., Ltd.	August 16, 2025	4.6	21,990,000	21,990,000
<b>Total</b>				<b>22,869,831</b>	<b>22,902,035</b>

(\*) Collateralized borrowings are secured by trade receivables.

(\*) Interest expenses arising from the lease liabilities for the six-month periods ended June 30, 2024 and 2023 amount to ₩ 16,518 million and ₩ 11,552 million, respectively, which are determined using the weighted average incremental borrowing rate.

## 10. Debentures

Details of the carrying amounts of debentures as of June 30, 2024 and December 31, 2023 are as follows:

<i>(In millions of Korean won)</i>	Issue date	Due date	Interest rate (%) as of June 30, 2024	June 30, 2024	December 31, 2023
US dollar denominated straight bonds <sup>(*)</sup>	October 2, 1997	October 1, 2027	7.7	27,784 (USD 20 million)	25,788 (USD 20 million)
Less: Discounts				(344)	(370)
Less: Current portion				(6,867)	(6,354)
<b>Total</b>				<b>20,573</b>	<b>19,064</b>

<sup>(\*)</sup>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 in arrears.

## 11. Net Defined Benefit Liabilities (Assets)

(D) Details of net defined benefit liabilities (assets) recognized in the statements of financial position as of June 30, 2024 and December 31, 2023 are as follows:

<i>(In millions of Korean won)</i>	June 30, 2024	December 31, 2023
Present value of funded defined benefit obligations	12,434,781	11,959,655
Present value of unfunded defined benefit obligations	23,572	22,672
Subtotal	12,458,353	11,982,327
Fair value of plan assets	(15,669,261)	(15,728,024)
<b>Total</b>	<b>(3,210,908)</b>	<b>(3,745,697)</b>

(E) The components of defined benefit costs recognized in profit or loss for the six-month periods ended June 30, 2024 and 2023 are as follows:

<i>(In millions of Korean won)</i>	2024	2023
Current service cost	526,791	481,183
Net interest income	(107,822)	(137,623)
<b>Total</b>	<b>418,969</b>	<b>343,560</b>

(F) The expenses related to defined benefit plans recognized in the statements of profit or loss for the six-month periods ended June 30, 2024 and 2023 are as follows:

<i>(In millions of Korean won)</i>	2024	2023
Cost of sales	166,206	137,491
Selling and administrative expenses and other	252,763	206,069
<b>Total</b>	<b>418,969</b>	<b>343,560</b>



## 12. Provisions

Changes in the provisions for the six-month period ended June 30, 2024 are as follows:

<i>(In millions of Korean won)</i>	<b>Warranty (A)</b>	<b>Royalty (B)</b>	<b>Long-term incentives (C)</b>	<b>Other (D, E)</b>	<b>Total</b>
Balance as of January 1	673,951	1,815,938	713,719	3,750,227	6,953,835
Charged to profit or loss	435,647	652,544	101,421	1,688,611	2,878,223
Payment	(345,007)	(471,073)	-	(723,126)	(1,539,206)
Other	-	52,559	-	50,642	103,201
<b>Balance as of June 30</b>	<b>764,591</b>	<b>2,049,968</b>	<b>815,140</b>	<b>4,766,354</b>	<b>8,396,053</b>

- (F) The Company accrues warranty provisions for estimated costs of quality assurance, exchanges, repairs, recalls, and future services based on historical experience and terms of warranty programs.
- (G) 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 negotiations.
- (H) 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.
- (I) The Company records provisions for future expenses expected to be incurred for products that have been discontinued from manufacturing and sales.
- (J) The Company makes provisions for the emission in excess of the emission rights held by the Company for the applicable years. Details of emission rights and liabilities as of June 30, 2024 are as follows:

- (1) The amount of emission rights allocated free of charge in the current commitment period and the estimated amount of emission as of June 30, 2024 are as follows:

<i>(In ten thousand metric tons)</i>	<b>June 30, 2024</b>
Emission rights allocated free of charge	1,117
Estimated volume of emission	1,378

- (2) Changes in the emission rights for the six-month periods ended June 30, 2024 and 2023 are as follows:

<i>(In millions of Korean won)</i>	<b>2024</b>	<b>2023</b>
Balance as of January 1	3,137	19,567
Acquisition	-	1,265
Utilization	-	(217)
<b>Balance as of June 30</b>	<b>3,137</b>	<b>20,615</b>

(3) Changes in the emission liabilities for the six-month periods ended June 30, 2024 and 2023 are as follows:

<i>(In millions of Korean won)</i>	<b>2024</b>	<b>2023</b>
Balance as of January 1	-	32,825
Charged to profit or loss	-	-
Utilization	-	-
<b>Balance as of June 30</b>	<b>-</b>	<b>32,825</b>

### 13. Commitments and Contingencies

#### (A) Guarantees

(1) Debt guarantees provided by the Company for overseas subsidiaries as of June 30, 2024 are as follows:

*(In millions of Korean won and thousands of US dollars)*

<b>Debtor</b>	<b>Creditor</b>	<b>Date of maturity</b>	<b>Amount of indebtedness</b>	<b>Guaranteed amount</b>
SETK	BNP and others	June 13, 2025	689,616	1,315,572
Others	Others	-	-	9,932,130
<b>Total</b>			689,616	11,247,702
			USD 496,458	USD 8,096,532

(2) The ceiling amount of guarantees provided by the Company for the execution of contracts by overseas subsidiaries is ₩ 510,858 million as of June 30, 2024.

(3) The Company has not been provided any collateral or guarantees from its related parties as of June 30, 2024.

#### (B) Litigation

As of June 30, 2024, the Company is involved in various claims, disputes, and investigations conducted by regulatory bodies that arose during the normal course of business with numerous entities. Although the outflow of resources and timing of these matters are uncertain, the Company believes the outcome will not have a material impact on the financial position of the Company.

#### (C) Joint liabilities related to the divestiture

The Company, Samsung Display Co., Ltd. and others are jointly and severally liable to fulfill the debts of Samsung Display Co., Ltd. and others which relate to the periods prior to Samsung Display Co., Ltd.'s separation from the Company.

#### (D) Other commitments

As of June 30, 2024, contractual commitments for the acquisition of property, plant and equipment and intangible assets amount to ₩ 12,740,899 million.

## 14. Contract Liabilities

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

<i>(In millions of Korean won)</i>	<b>June 30, 2024</b>	<b>December 31, 2023</b>
Contract liabilities <sup>(*)</sup>	1,452,763	1,491,085

<sup>(\*)</sup> Contract liabilities include advances received, accrued expenses, other current liabilities and others.

## 15. Share Capital

As of June 30, 2024, the Company's total number of authorized shares is 25,000,000,000 shares (₩ 100 per share). As well as its ordinary shares, the Company also has non-cumulative preference shares that are eligible for an additional 1% cash dividend over par value per annum compared to ordinary shares, but without voting rights. The Company has issued 5,969,782,550 shares of ordinary shares and 822,886,700 shares of preference shares as of June 30, 2024, excluding the number of retired shares. As of June 30, 2024, 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 six-month period ended June 30, 2024 and the year ended December 31, 2023. Due to the retirement of shares, the total par value of the shares issued which excludes the number of retired shares 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.

## 16. Retained Earnings

(B) Retained earnings as of June 30, 2024 and December 31, 2023 consist of the following:

<i>(In millions of Korean won)</i>	<b>June 30, 2024</b>	<b>December 31, 2023</b>
Legal reserves	450,789	450,789
Discretionary reserve and other	231,443,286	219,512,562
<b>Total</b>	<b>231,894,075</b>	<b>219,963,351</b>

(B) Details of interim dividends are as follows (Record date: June 30, 2024 and 2023)

<i>(In millions of Korean won and number of shares)</i>			<b>2024</b>	<b>2023</b>
1 <sup>st</sup> Quarter	Number of shares eligible for dividends	Ordinary shares	5,969,782,550	5,969,782,550
		Preference shares	822,886,700	822,886,700
	Dividend rate (based on par value)	Ordinary/Preference	361%	361%
	Dividend amount	Ordinary shares	2,155,092	2,155,092
		Preference shares	297,062	297,062
			<b>Total</b>	<b>2,452,154</b>
2 <sup>nd</sup> Quarter	Number of shares eligible for dividends	Ordinary shares	5,969,782,550	5,969,782,550
		Preference shares	822,886,700	822,886,700
	Dividend rate (based on par value)	Ordinary/Preference	361%	361%
	Dividend amount	Ordinary shares	2,155,092	2,155,092
		Preference shares	297,062	297,062

**Total** 2,452,154 2,452,154

## 17. Other Components of Equity

Other components of equity as of June 30, 2024 and December 31, 2023 consist of the following:

<i>(In millions of Korean won)</i>	<b>June 30, 2024</b>	<b>December 31, 2023</b>
Gain on valuation of financial assets at fair value through other comprehensive income	493,014	246,155
Remeasurement of net defined benefit liabilities (assets)	(2,578,160)	(2,483,547)
Others	1,760,408	1,760,408
<b>Total</b>	<b>(324,738)</b>	<b>(476,984)</b>

## 18. Expenses by Nature

Expenses by nature for the three and six-month periods ended June 30, 2024 and 2023 consist of the following:

<i>(In millions of Korean won)</i>	<b>2024</b>		<b>2023</b>	
	<b>3 Months</b>	<b>6 Months</b>	<b>3 Months</b>	<b>6 Months</b>
Changes in finished goods, work in process, and other	(600,930)	(1,655,973)	(1,921,558)	(4,458,251)
Raw materials used, merchandise purchased, and other	21,524,147	46,029,412	21,586,066	47,300,307
Wages and salaries	3,731,782	7,603,029	3,973,830	8,056,082
Post-employment benefit	211,139	421,748	174,390	348,059
Depreciation	7,038,174	13,946,056	6,224,767	12,502,893
Amortization	610,446	1,197,385	660,403	1,317,524
Welfare	796,960	1,675,971	902,204	1,666,756
Utilities	1,340,588	2,732,064	1,183,576	2,411,748
Outsourcing	1,242,776	2,193,988	927,790	1,859,249
Advertising	443,013	813,564	382,376	655,398
Sales promotion	388,002	698,304	320,547	612,671
Other	9,785,530	20,088,316	9,012,800	17,232,195
<b>Total<sup>(*)</sup></b>	<b>46,511,627</b>	<b>95,743,864</b>	<b>43,427,191</b>	<b>89,504,631</b>

(\*) Equal to the sum of cost of sales and selling and administrative expenses in the interim separate statement of profit or loss.

## 19. Selling and Administrative Expenses

Selling and administrative expenses for the three and six-month periods ended June 30, 2024 and 2023 are as follows:

<i>(In millions of Korean won)</i>	<b>2024</b>		<b>2023</b>	
	<b>3 Months</b>	<b>6 Months</b>	<b>3 Months</b>	<b>6 Months</b>
<b>Selling and administrative expenses</b>				
Wages and salaries	599,907	1,355,501	648,380	1,384,662
Post-employment benefit	36,878	73,815	31,629	62,604
Commissions	840,089	1,560,874	814,025	1,715,912

Depreciation	119,662	238,243	115,774	228,549
Amortization	98,306	196,539	97,537	193,249
Advertising	443,013	813,564	382,376	655,398
Sales promotion	388,002	698,304	320,547	612,671
Transportation	181,735	408,796	135,377	271,208
Service	227,109	814,879	377,408	651,168
Other	598,417	1,107,495	582,925	1,079,247
<b>Subtotal</b>	<b>3,533,118</b>	<b>7,268,010</b>	<b>3,505,978</b>	<b>6,854,668</b>
<b>Research and development expenses</b>				
Research and development	6,797,045	13,521,540	6,112,643	11,727,904
<b>Total</b>	<b>10,330,163</b>	<b>20,789,550</b>	<b>9,618,621</b>	<b>18,582,572</b>

## 20. Other Non-Operating Income and Expenses

Details of other non-operating income and expenses for the three and six-month periods ended June 30, 2024 and 2023 are as follows:

<i>(In millions of Korean won)</i>	2024		2023	
	3 Months	6 Months	3 Months	6 Months
<b>Other non-operating income</b>				
Dividend income	1,220,105	9,369,762	13,405,935	21,845,780
Rental income	46,058	92,580	44,502	90,399
Gain on disposal of property, plant and equipment	13,372	23,000	37,373	69,275
Other	69,315	112,626	45,548	97,888
<b>Total</b>	<b>1,348,850</b>	<b>9,597,968</b>	<b>13,533,358</b>	<b>22,103,342</b>

<i>(In millions of Korean won)</i>	2024		2023	
	3 Months	6 Months	3 Months	6 Months
<b>Other non-operating expenses</b>				
Loss on disposal of property, plant and equipment	1,745	23,009	2,172	5,338
Donations	15,280	79,864	20,292	77,639
Other	68,274	253,513	16,727	48,454
<b>Total</b>	<b>85,299</b>	<b>356,386</b>	<b>39,191</b>	<b>131,431</b>

## 21. Financial Income and Expenses

Details of financial income and expenses for the three and six-month periods ended June 30, 2024 and 2023 are as follows:

<i>(In millions of Korean won)</i>	2024		2023	
	3 Months	6 Months	3 Months	6 Months
<b>Financial income</b>				
Interest income:	87,582	148,073	88,806	150,581
- Financial assets measured at amortized cost	87,582	148,073	88,806	150,581
Foreign exchange differences	1,572,876	2,923,209	1,740,510	3,596,340
Gain from derivatives	-	-	-	235,753
<b>Total</b>	<b>1,660,458</b>	<b>3,071,282</b>	<b>1,829,316</b>	<b>3,982,674</b>

<i>(In millions of Korean won)</i>	2024		2023	
	3 Months	6 Months	3 Months	6 Months
<b>Financial expenses</b>				
Interest expenses:	127,814	328,757	316,475	477,978
- Financial liabilities measured at amortized cost	14,627	87,300	254,760	333,472
- Other financial liabilities	113,187	241,457	61,715	144,506
Foreign exchange differences	1,486,551	2,725,987	1,746,798	3,905,443
Loss from derivatives	77,702	48,261	93,579	93,579
<b>Total</b>	<b>1,692,067</b>	<b>3,103,005</b>	<b>2,156,852</b>	<b>4,477,000</b>

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

## 22. Income Tax Expense

Income tax expense is recognized based on management's best estimate of the weighted average annual income tax rate expected for the full financial year considering global minimum top-up tax. The average annual tax rate expected as of June 30, 2024 to be effective for the year ended December 31, 2024 is 8.7%.

## 23. Earnings per Share

### (C) Basic earnings per share

Basic earnings per share for the three and six-month periods ended June 30, 2024 and 2023 are calculated as follows:

#### (1) Ordinary shares

<i>(In millions of Korean won and thousands shares)</i>	2024		2023	
	3 Month	6 Month	3 Month	6 Month
Profit for the period	7,098,417	16,835,854	9,584,633	13,742,728
Profit for the period available for ordinary shares	6,238,491	14,796,302	8,423,518	12,077,888
Weighted-average number of ordinary shares outstanding	5,969,783	5,969,783	5,969,783	5,969,783
<b>Basic earnings per ordinary share (in Korean won)</b>	<b>1,045</b>	<b>2,479</b>	<b>1,411</b>	<b>2,023</b>

(2) Preference shares

<i>(In millions of Korean won and thousands of shares)</i>	2024		2023	
	3 Month	6 Month	3 Month	6 Month
Profit for the period	7,098,417	16,835,854	9,584,633	13,742,728
Profit for the period available for preference shares	859,926	2,039,552	1,161,115	1,664,840
Weighted-average number of preference shares outstanding	822,887	822,887	822,887	822,887
<b>Basic earnings per preference share (in Korean won)</b>	<b>1,045</b>	<b>2,479</b>	<b>1,411</b>	<b>2,023</b>

(D) 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 three and six-month periods ended June 30, 2024 and 2023.

## 24. 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 six-month periods ended June 30, 2024 and 2023 are as follows:

- Adjustments

<i>(In millions of Korean won)</i>	2024	2023
Adjustments :		
Income tax expense	1,603,876	127,993
Financial income	(598,313)	(712,113)
Financial expenses	1,214,005	1,504,324
Post-employment benefits	421,748	348,059
Depreciation	13,946,056	12,502,893
Amortization	1,197,385	1,317,524
Bad debt expense	4,151	7,777
Dividend income	(9,369,762)	(21,845,780)
Gain on disposal of property, plant and equipment	(23,000)	(69,275)
Loss on disposal of property, plant and equipment	23,009	5,338
Loss (Reversal of loss) on valuation of inventories	(3,138,015)	2,890,936
Other	64,719	13,768
<b>Total</b>	<b>5,345,859</b>	<b>(3,908,556)</b>

- Changes in assets and liabilities arising from operating activities

<i>(In millions of Korean won)</i>	<b>2024</b>	<b>2023</b>
Changes in assets and liabilities :		
Increase in trade receivables	(8,186,215)	(1,433,395)
Decrease in non-trade receivables	347,172	575,435
Increase in prepaid expenses	(36,579)	(173,745)
Decrease (increase) in inventories	629,265	(7,416,523)
Increase in trade payables	3,471,000	707,640
Decrease in other payables	(2,527,261)	(2,880,364)
Decrease in advances received	(42,665)	(82,392)
Increase (decrease) in withholdings	108,484	(107,177)
Increase (decrease) in accrued expenses	969,230	(1,635,068)
Increase in provisions	1,339,017	1,164,499
Payment of post-employment benefits	(382,872)	(202,846)
Other	(861,989)	(354,414)
<b>Total</b>	<b>(5,173,413)</b>	<b>(11,838,350)</b>

(B) For the six-month periods ended June 30, 2024 and 2023, cash outflows from principal portion of lease liabilities (financial activities) amount to ₩ 105,934 million and ₩ 80,125 million, respectively, and cash outflows due to interest expenses (operating activities) in relation to the lease liabilities amount to ₩ 16,518 million and ₩ 11,552 million, respectively.

## 25. Financial Risk Management

The Company manages its financial risks with a focus on minimizing market risk, credit risk, and liquidity risk arising from its operating activities. To this end, the Company closely monitors and responds to each risk factor.

The Company establishes global financial management standards, periodically measures customer and counterparty financial risk, and manages the risk with currency hedges and review of cash flows, etc.

The Company also manages foreign exchange risk by monitoring foreign exchange rate fluctuations through local financial centers in the major regions (United States, United Kingdom, Singapore, China, Brazil, and Russia), which act as an agent for the subsidiaries in each region to manage foreign exchange transactions. In addition, local finance centers in the major regions respond to liquidity risk through a regionally integrated financial structure.

The Company's financial assets subject to financial risk management consist of cash and cash equivalents, short-term financial instruments, financial assets at amortized cost, trade receivables and others, while its financial liabilities consist of trade payables, borrowings, and others.

### (F) Market risk

#### (4) Foreign exchange risk

The Company is exposed to foreign exchange risk arising from its global operations through transactions in currencies other than its functional currency. The main currencies in which the Company is exposed to foreign exchange risk are the US dollar and European Euro.

The Company focuses on minimizing the impact of foreign exchange fluctuation by matching levels of assets and liabilities denominated in each foreign currency. To minimize 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 match as closely as possible cash inflows and outflows incurred in the respective foreign currencies. This reduces but may not eliminate, the foreign exchange risk to which the Company is exposed. 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.

#### (5) Interest rate risk

Interest rate risk for floating interest rate financial instruments can be defined as the risk of changes in the fair value of components of the statement of financial position due to changes in the market interest rates, and the risk of changes in the future cash flows of interest income and expenses arising from investing and financing activities. The Company's exposure to interest rate risk arises primarily from interest-bearing deposits and floating interest rate debt obligations, and the Company manages its exposure to interest rate risk to minimize uncertainty and cost of financing resulting from changes in interest rates.

#### (6) 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, which is in line with the Company's strategy.

As of June 30, 2024 and 2023, price fluctuation of marketable equity securities (listed stocks) by 1% would result in changes in other comprehensive income (before income tax) of ₩ 20,860 million and ₩ 16,142 million, respectively.

#### (G) Credit risk

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

Credit risk also can arise from transactions with financial institutions including transactions in financial instruments such as cash and cash equivalents, deposits, and derivative instruments. To minimize such risk, the Company transacts only with banks that have a strong international credit rating (S&P A and above), and new transactions with financial institutions which the Company does not have an existing relationship are subject to the completion of risk assessments prior to commencement of transactions. The Company generally enters into financial agreements without restrictions, such as debt ratio covenants, provision of collateral and/or repayment of loans/borrowings, and otherwise separate approvals are obtained.

The carrying amount of the Company's financial assets is net of impairment losses and the Company's maximum exposure to credit risk is equal to the carrying amount of its financial assets.

#### (H) Liquidity risk

Liquidity risk is the risk that a company will have difficulty in meeting all its financial obligations. The Company's main sources of liquidity are cash generated from operations and funds raised from the capital markets and financial institutions, while its main liquidity needs are for investments in production, research and development, working capital and dividends. Due to the nature of the Company's business, which involves large investments, maintaining adequate levels of liquidity is critical. The Company maintains and manages adequate liquidity through forecasting periodic cash flows, estimating required cash levels, and monitoring inflows and outflows of cash.

The Company has established Cash Pooling by region to respond effectively to liquidity risks, even when individual companies within a region are underfunded. Cash Pooling is a system that shares funds between underfunded and overfunded companies, minimizing the liquidity risk of individual companies, easing the burden of fund management, and reducing financial costs.

In addition, the Company has secured credit lines for its overseas subsidiaries by means of payment guarantees from the head office in the event of large liquidity needs, and, at the end of the period, the Company had investment grade ratings of Aa2 from Moody's and AA- from S&P, enabling it to raise funds on the capital market in a timely manner.

#### (I) Capital risk management

The purpose of capital management is to maintain a sound capital structure and protect the Company's ability to continue to provide benefits to its shareholders and stakeholders as a going concern. The Company monitors capital on the basis of credit ratings and debt ratio.

The debt ratios as of June 30, 2024 and December 31, 2023 are as follows:

<i>(In millions of Korean won)</i>	<b>June 30, 2024</b>	<b>December 31, 2023</b>
Total liabilities	80,764,694	72,069,515
Total equity	236,870,744	224,787,774
<b>Debt ratio</b>	34.1%	32.1%

#### (J) Fair value measurement

(6) Carrying amounts and fair values of financial instruments by category as of June 30, 2024 and December 31, 2023 are as follows:

<i>(In millions of Korean won)</i>	<b>June 30, 2024</b>		<b>December 31, 2023</b>	
	<b>Carrying amount</b>	<b>Fair value</b>	<b>Carrying amount</b>	<b>Fair value</b>
<b>Financial assets</b>				
Cash and cash equivalents	7,818,179	(*)	6,061,451	(*)
Short-term financial instruments	3,819,491	(*)	50,071	(*)
Trade receivables	35,819,815	(*)	27,363,016	(*)
Financial assets at fair value through other comprehensive income	2,189,910	2,189,910	1,854,503	1,854,503
Financial assets at fair value through profit or loss	-	-	1	1
Other <sup>(*)2)</sup>	5,313,571	344,974	5,365,519	393,235
<b>Total financial assets</b>	<b>54,960,966</b>		<b>40,694,561</b>	
<b>Financial liabilities</b>				
Trade payables	11,513,195	(*)	7,943,834	(*)
Short-term borrowings	9,676,020	(*)	5,625,163	(*)
Other payables	11,010,018	(*)	15,015,578	(*)
Current portion of long-term liabilities	265,348	7,415	228,491	6,757
- Long-term borrowings	258,481	(*)3)	222,137	(*)3)
- Debentures	6,867	7,415	6,354	6,757
Debentures	20,573	23,873	19,064	21,695
Long-term borrowings	22,869,831	(*)3)	22,902,035	(*)3)

Long-term other payables	4,403,185	(*)	4,486,390	(*)
Other	4,789,062	(*)	3,652,969	(*)
<b>Total financial liabilities</b>	<b>64,547,232</b>		<b>59,873,524</b>	

(\*) Carrying amount is a reasonable approximation of fair value.

(\*) Assets measured at the cost of ₩ 4,968,597 million and ₩ 4,972,284 million on June 30, 2024 and December 31, 2023, respectively, which are reasonable estimates of fair value, 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.

(7) Fair value hierarchy classifications of the financial instruments that are measured or disclosed at fair value as of June 30, 2024 and December 31, 2023 are as follows:

<i>(In millions of Korean won)</i>	<b>June 30, 2024</b>			
	<b>Level 1</b>	<b>Level 2</b>	<b>Level 3</b>	<b>Total balance</b>
<b>1) Assets</b>				
Financial assets at fair value through other comprehensive income	2,085,992	-	103,918	2,189,910
Financial assets at fair value through profit or loss	-	-	-	-
Other	-	-	344,974	344,974
<b>2) Liabilities</b>				
Current portion of debentures	-	7,415	-	7,415
Debentures	-	23,873	-	23,873

<i>(In millions of Korean won)</i>	<b>December 31, 2023</b>			
	<b>Level 1</b>	<b>Level 2</b>	<b>Level 3</b>	<b>Total balance</b>
<b>1) Assets</b>				
Financial assets at fair value through other comprehensive income	1,757,336	-	97,167	1,854,503
Financial assets at fair value through profit or loss	-	-	1	1
Other	-	-	393,235	393,235
<b>2) Liabilities</b>				
Current portion of debentures	-	6,757	-	6,757
Debentures	-	21,695	-	21,695

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 reporting 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. 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 is determined by using valuation techniques. These valuation techniques maximize the use of observable market data where available and rely as little as possible on entity-specific estimates. If all significant inputs required to measure the fair value of an instrument are observable, the instrument is included in Level 2.

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 in line with the financial reporting timelines. 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 determined using forward exchange rates at the reporting date, with the resulting value discounted to present value

Other techniques, such as discounted cash flow analysis, binomial distribution model, etcetera, 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.

(8) Valuation technique and the inputs

The Company utilizes a present value technique to discount future cash flows using proper interest rates 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 June 30, 2024.

*(In millions of Korean won, and percentage)*

<b>Classification</b>	<b>Fair value</b>	<b>Valuation technique</b>	<b>Level 3 inputs</b>	<b>Input range</b>
<b>Financial assets at fair value through other comprehensive income</b>				
Samsung Venture Investment	33,309	Discounted cash flow	Permanent growth rate	1.0%
			Weighted average cost of capital	16.0%
MiCo Ceramics Co., Ltd.	39,621	Discounted cash flow	Permanent growth rate	0.0%
			Weighted average cost of capital	17.1%
<b>Other</b>				
Call option on equity instruments	344,974	Binomial model	Risk-free rate	3.3%
			Price volatility	66.6%

(9) Changes in Level 3 instruments:

<i>(In millions of Korean won)</i>	<b>2024</b>	<b>2023</b>
<b>Financial assets</b>		
Balance as of January 1	490,403	116,726
Acquisitions	-	27,784
Disposals	-	(283)
Amount recognized in profit for the period	(48,261)	141,062
Amount recognized in other comprehensive income	6,750	1,526
<b>Balance as of June 30</b>	<b>448,892</b>	<b>286,815</b>

(10) 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 income or loss before tax 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>	<b>Favorable changes</b>		<b>Unfavorable changes</b>	
	<b>Profit or loss</b>	<b>Equity</b>	<b>Profit or loss</b>	<b>Equity</b>
<b>Classification</b>				
Financial assets at fair value through other comprehensive income <sup>(*1)</sup>	-	2,643	-	(2,695)
Other <sup>(*2)</sup>	87,629	-	(87,307)	-

(\*1) For equity securities, changes in fair value are calculated by increasing or decreasing the discount rate and growth rate (-1.0% ~1.0%), which are significant unobservable inputs.

(\*2) Changes in fair value were calculated based on changes in underlying asset price (20%) and price volatility (10%), which are significant unobservable inputs.

## 26. Segment Information

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

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 DX, DS, and others.

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 three-month period ended June 30, 2024

<i>(In millions of Korean won)</i>	<b>DX</b>	<b>DS</b>	<b>Total<sup>(*)</sup></b>
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Revenue	28,238,893	28,093,113	53,734,118
Depreciation	136,163	6,851,689	7,038,174
Amortization	396,828	156,254	610,446
Operating profit	1,667,732	5,554,284	7,222,491

(\*) Other operating segments are not separately disclosed.

(2) For the six-month period ended June 30, 2024

<i>(In millions of Korean won)</i>	DX	DS	Total <sup>(*)</sup>
Revenue	58,820,343	50,922,486	104,973,735
Depreciation	269,907	13,575,097	13,946,056
Amortization	790,089	292,440	1,197,385
Operating profit	2,606,630	6,621,286	9,229,871

(\*) Other operating segments are not separately disclosed.

(3) For the three-month period ended June 30, 2023

<i>(In millions of Korean won)</i>	DX	DS	Total <sup>(*)</sup>
Revenue	25,539,424	14,511,343	39,729,088
Depreciation	134,701	6,039,304	6,224,767
Amortization	423,127	178,340	660,403
Operating profit	1,035,370	(4,885,030)	(3,698,103)

(\*) Other operating segments are not separately disclosed.

(4) For the six-month period ended June 30, 2023

<i>(In millions of Korean won)</i>	DX	DS	Total <sup>(*)</sup>
Revenue	54,775,598	27,855,964	81,897,767
Depreciation	270,034	12,132,145	12,502,893
Amortization	830,016	371,066	1,317,524
Operating profit	2,257,012	(9,867,407)	(7,606,864)

(\*) Other operating segments are not separately disclosed.

## 27. Related Party Transactions

### (A) Subsidiaries

List of subsidiaries as of June 30, 2024 is as follows:

Region	Subsidiaries	Business	Percentage of ownership (%) <sup>(*)</sup>
America	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)	Research and Development (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

Joyent, Inc.	Cloud services	100.0
SmartThings, Inc.	Sale of smart home electronics	100.0
TeleWorld Solutions, Inc. (TWS)	Installation and optimization of network devices	100.0
Samsung Semiconductor, Inc. (SSI)	Sale of semiconductor and display panels	100.0
Samsung Federal, Inc. (SFI)	R&D	100.0
Samsung Austin Semiconductor LLC. (SAS)	Manufacture of semiconductors	100.0
Samsung Oak Holdings, Inc. (SHI)	Management of overseas subsidiaries	100.0
SEMES America, Inc.	Maintenance of semiconductor equipment	100.0
Samsung Display America Holdings, Inc. (SDAH)	Management of overseas subsidiaries	100.0
eMagin Corporation	Development and manufacture of display panels	100.0
Samsung Electronics Canada, Inc. (SECA)	Sale of electronic devices	100.0
AdGear Technologies Inc.	Digital advertising platforms	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, SA de CV (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
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 services	100.0
Harman International Industries, Inc.	Management of overseas subsidiaries	100.0
Harman Becker Automotive Systems, Inc.	Manufacture, sale and R&D of audio products	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 and R&D	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 and R&D	100.0
Roon Labs, LLC.	Sale of audio products	100.0
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

(\*) Ownership represents the Company's ownership of the voting rights in each entity, including subsidiaries' ownerships.

Region	Subsidiaries	Business	Percentage of ownership (%) <sup>(*)</sup>
Europe & CIS	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, Unipessoal, Lda. (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 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
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
SAMSUNG Zhilabs, S.L.	Development and sale of network solution	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 R&D Institute Ukraine (SRUKR)	R&D	100.0
Samsung Electronics Central Eurasia LLP (SECE)	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
Samsung Electronics Uzbekistan Ltd. (SEUZ)	Marketing	100.0
AKG Acoustics GmbH	Manufacture and sale of audio products	100.0
Apostera UA, LLC	Connected service provider	100.0
Harman Audio Iberia Espana Sociedad Limitada	Sale of audio products	100.0
	Manufacture and sale of audio products and	
Harman Becker Automotive Systems GmbH	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 and 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 Poland Sp.zoo	Connected service provider	100.0

(\*) Ownership represents the Company's ownership of the voting rights in each entity, including subsidiaries' ownerships.

Region	Subsidiaries	Business	Percentage of ownership (%) <sup>(*)</sup>	
	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	
	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	
Europe & CIS	Harman International Estonia OU	R&D	100.0	
	Harman International Industries Limited	Sale and R&D of audio products	100.0	
	Harman International Romania SRL	R&D	100.0	
	Harman Management GmbH	Management of overseas subsidiaries	100.0	
	Harman Professional Kft	Manufacture and R&D of audio products	100.0	
	Harman Professional Denmark ApS	Sale and R&D of audio products	100.0	
	Red Bend Software SAS	Software design	100.0	
	Studer Professional Audio GmbH	Sale of audio products and R&D	100.0	
	Harman Connected Services OOO	Connected service provider	100.0	
	Harman RUS CIS LLC	Sale of audio products	100.0	
	Middle East & Africa	Samsung Gulf Electronics Co., Ltd. (SGE)	Sale of electronic devices	100.0
		Samsung Electronics Turkiye (SETK)	Sale of electronic devices	100.0
	Samsung Electronics Industry and Commerce Ltd. (SETK-P)	Manufacture 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

(\*) Ownership represents the Company's ownership of the voting rights in each entity, including subsidiaries' ownerships.

Region	Subsidiaries	Business	Percentage of ownership (%) <sup>(*)</sup>
Asia (Excluding China)	Samsung Asia Pte. Ltd. (SAPL)	Management of overseas subsidiaries	100.0
	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
	Red Brick Lane Marketing Solutions Pvt. Ltd.	Marketing	100.0
	Samsung Display Noida Private Limited (SDN)	Manufacture of display panels	100.0
	Samsung R&D Institute India-Bangalore Private Limited (SRI-Bangalore)	R&D	100.0
	Samsung R&D Institute BanglaDesh Limited (SRBD)	R&D	100.0
	Samsung Nepal Services Pvt, Ltd (SNSL)	Services	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
	Harman Connected Services Corp. India Pvt. Ltd.	Connected service provider	100.0
	Harman International (India) Private Limited	Sale of audio products and R&D	100.0
	Harman International Industries PTY Ltd.	Management of overseas subsidiaries	100.0
	Harman International (Thailand) Co., Ltd.	Manufacturing and sale of audio products	100.0
	Harman International Japan Co., Ltd.	Sale of audio products and R&D	100.0
	Harman Singapore Pte. Ltd.	Sale of audio products	100.0

(\*) Ownership represents the Company's ownership of the voting rights in each entity, including subsidiaries' ownerships.

Region	Subsidiaries	Business	Percentage of ownership (%) <sup>(*)</sup>
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
	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)	R&D	100.0
	Tianjin Samsung Telecom Technology Co., Ltd. (TSTC)	Manufacture of communication equipment	90.0
	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 semiconductor	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
	SEMES (XIAN) Co., Ltd.	Semiconductor equipment services	100.0
	Samsung Semiconductor Investment L.P. I	Investment in new technology and venture firm	99.0
	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 and 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 and R&D	100.0
	Harman Technology (Shenzhen) Co., Ltd.	Sale of audio products and R&D	100.0

<sup>(\*)</sup> Ownership represents the Company's ownership of the voting rights in each entity, including subsidiaries' ownerships.

Region	Subsidiaries	Business	Percentage of ownership (%) <sup>(*)</sup>
Domestic	Samsung Display Co., Ltd.	Manufacture and sale of display panels	84.8
	SU Materials Co., Ltd.	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 Co., Ltd.	Call center for electronic device repair services	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
	Stellar Forest Co., Ltd.	Manufacture and processing of food products	100.0
		Development and supply of semiconductor process defect and quality control software	99.9
	Mirero System Co., Ltd.	Software development and supply	100.0
	Harman International Korea, Co., Ltd.	Software development and supply	100.0
	Samsung Venture Capital Union #21	Venture capital investments in technology business	99.0
	Samsung Venture Capital Union #22	Venture capital investments in technology business	99.0
	Samsung Venture Capital Union #26	Venture capital investments in technology business	99.0
	Samsung Venture Capital Union #28	Venture capital investments in technology business	99.0
	Samsung Venture Capital Union #29	Venture capital investments in technology business	99.0
	Samsung Venture Capital Union #32	Venture capital investments in technology business	99.0
	Samsung Venture Capital Union #33	Venture capital investments in technology business	99.0
	Samsung Venture Capital Union #37	Venture capital investments in technology business	99.0
	Samsung Venture Capital Union #40	Venture capital investments in technology business	99.0
	Samsung Venture Capital Union #42	Venture capital investments in technology business	99.0
	Samsung Venture Capital Union #43	Venture capital investments in technology business	99.0
	Samsung Venture Capital Union #45	Venture capital investments in technology business	99.0
	Samsung Venture Capital Union #52	Venture capital investments in technology business	99.0
	Samsung Venture Capital Union #55	Venture capital investments in technology business	99.0
	Samsung Venture Capital Union #56	Venture capital investments in technology business	99.0
	Samsung Venture Capital Union #57	Venture capital investments in technology business	99.0
	Samsung Venture Capital Union #62	Venture capital investments in technology business	99.0
	Growth Type Private Equity Trust Specialized In Semiconductors	Investment in semiconductor industry	66.7
	System-LSI Mutual Benefit Private Equity Trust	Investment in semiconductor industry	62.5
Semiconductor Ecosystem General Private Equity Trust	Investment in semiconductor industry	66.7	

<sup>(\*)</sup> Ownership represents the Company's ownership of the voting rights in each entity, including subsidiaries' ownerships.

## (B) Transactions with related parties

Transactions with related parties for the six-month periods ended June 30, 2024 and 2023 are as follows:

(In millions of Korean won)	Name of company <sup>(*)</sup>	2024			
		Sales and other	Disposal of non- current assets	Purchases and other	Purchase of non- current assets
	Samsung Display Co., Ltd.	5,865,099	-	942,984	-
	Samsung Electronics America, Inc. (SEA)	15,220,446	-	115,670	-
	Samsung Asia Pte. Ltd. (SAPL)	24	-	7,588	-
	Samsung Austin Semiconductor LLC. (SAS)	17	-	2,174,169	-
	Harman and its subsidiaries <sup>(*)2</sup>	720	-	28,509	-
	Samsung (China) Semiconductor Co., Ltd. (SCS)	433,024	8,402	6,021,417	276
	Samsung Semiconductor, Inc. (SSI)	15,928,298	-	423,721	-
	Samsung (CHINA) Investment Co., Ltd. (SCIC)	2,008,371	-	7,439	-
	Samsung Electronics Vietnam THAINGUYEN Co., Ltd. (SEVT)	1,425,830	461	12,454,674	3,752
	Samsung India Electronics Private Ltd. (SIEL)	1,777,794	-	3,283,954	-
	Samsung Electronics Europe Holding Cooperatief U.A. (SEEH)	-	-	-	-
	Samsung Electronics Vietnam Co., Ltd. (SEV)	924,612	-	7,314,340	132
	Samsung Display Vietnam Co., Ltd. (SDV)	738,214	-	-	-
Subsidiaries	Shanghai Samsung Semiconductor Co., Ltd. (SSS)	15,258,331	-	-	-
	Samsung Eletronica da Amazonia Ltda. (SEDA)	1,605,991	149	2,756	-
	Samsung Electronics HCMC CE Complex Co., Ltd. (SEHC)	318,376	268	2,939,764	-
	Samsung Electronics (UK) Ltd. (SEUK)	988,244	-	58,953	-
	Samsung Electronics Europe Logistics B.V. (SELS)	3,122,543	-	653	-
	Samsung International, Inc. (SII)	143,673	1,753	3,546,712	-
	Thai Samsung Electronics Co., Ltd. (TSE)	1,627,064	-	1,112,823	-
	SEMES Co., Ltd.	3,801	-	984,340	-
	Samsung Electronics Taiwan Co., Ltd. (SET)	2,439,935	-	554	-
	Samsung Electronics Mexico S.A. De C.V. (SEM)	1,658,601	-	5,276	-
	Samsung Electronics GmbH (SEG)	1,938,864	-	3,171	-
	Samsung Electronics Benelux B.V. (SEBN)	552,820	-	449	-
	Other	27,709,388	8,059	6,800,353	2,610
	<b>Total</b>	<b>101,690,080</b>	<b>19,092</b>	<b>48,230,269</b>	<b>6,770</b>
	Samsung SDS Co., Ltd.	70,614	-	912,221	118,212
	Samsung Electro-Mechanics Co., Ltd.	31,920	-	430,129	-
	Samsung SDI Co., Ltd.	42,831	-	162,683	14,420
Associates and joint ventures	Cheil Worldwide Inc.	33,542	-	441,780	1,299
	Other	308,669	122	439,117	2,173
	<b>Total</b>	<b>487,576</b>	<b>122</b>	<b>2,385,930</b>	<b>136,104</b>
	Samsung C&T Corporation	11,192	-	60,814	2,126,595
Other related parties	Other	281,363	-	334,836	93,234
	<b>Total</b>	<b>292,555</b>	<b>-</b>	<b>395,650</b>	<b>2,219,829</b>
	Samsung E&A Co., Ltd.	281	-	29,688	1,501,585
Other <sup>(*)3</sup>	S-1 Corporation	1,905	-	225,336	8,696
	Other	98,345	-	76,863	298,502
	<b>Total</b>	<b>100,531</b>	<b>-</b>	<b>331,887</b>	<b>1,808,783</b>

<sup>(\*)1</sup> Transactions with separate entities that are related parties of the Company.

<sup>(\*)2</sup> Transactions with the intermediate parent company, Harman International Industries, Inc., and its subsidiaries.

<sup>(\*)3</sup> 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.

(In millions of Korean won)	Name of company <sup>(*)</sup>	2023			
		Sales and other	Disposal of non- current assets	Purchases and other	Purchase of non- current assets
Subsidiaries	Samsung Display Co., Ltd.	137,144	-	738,877	-
	Samsung Electronics America, Inc. (SEA)	14,863,612	-	105,379	-
	Samsung Asia Pte. Ltd. (SAPL)	37	-	14,289	-
	Harman and its subsidiaries <sup>(*)</sup>	-	-	30,015	-
	Samsung (China) Semiconductor Co., Ltd. (SCS)	51,078	30,686	5,008,994	10,575
	Samsung Electronics Vietnam THAINGUYEN Co., Ltd. (SEVT)	1,947,849	196	10,352,523	263
	Samsung Semiconductor, Inc. (SSI)	9,097,034	-	331,874	-
	Samsung Austin Semiconductor LLC. (SAS)	1,135	-	2,091,445	1,058
	Samsung (CHINA) Investment Co., Ltd. (SCIC)	3,861,951	-	5,270	-
	Samsung Electronics Europe Holding Cooperatief U.A. (SEEH)	-	-	-	-
	Samsung Electronics Vietnam Co., Ltd. (SEV)	1,200,221	-	6,675,894	767
	Samsung India Electronics Private Ltd. (SIEL)	1,569,624	118	2,195,873	-
	Samsung Display Vietnam Co., Ltd. (SDV)	631,355	-	-	-
	Samsung Eletronica da Amazonia Ltda. (SEDA)	676,922	-	12,630	-
	Samsung Electronics HCMC CE Complex Co., Ltd. (SEHC)	265,417	965	2,617,708	-
	Shanghai Samsung Semiconductor Co., Ltd. (SSS)	5,606,090	-	-	-
	Samsung International, Inc. (SII)	123,097	51	3,575,194	-
	Thai Samsung Electronics Co., Ltd. (TSE)	1,413,307	-	1,226,275	-
	Samsung Electronics (UK) Ltd. (SEUK)	1,114,666	-	56,462	-
	Samsung Electronics Europe Logistics B.V. (SELS)	2,494,493	-	4,298	-
	Samsung Electronics Mexico S.A. De C.V. (SEM)	1,297,667	-	3,041	-
	SEMES Co., Ltd.	4,380	-	1,243,475	-
	Samsung Display Dongguan Co., Ltd. (SDD)	58,882	-	-	-
	Samsung Electronics GmbH (SEG)	1,680,581	-	3,457	-
	Samsung Electronics Benelux B.V. (SEBN)	1,164,819	-	685	-
	Other	27,765,854	2,717	6,705,608	1,964
		<b>Total</b>	<b>77,027,215</b>	<b>34,733</b>	<b>42,999,266</b>
Associates and joint ventures	Samsung SDS Co., Ltd.	100,607	-	871,968	148,503
	Samsung Electro-Mechanics Co., Ltd.	49,539	-	441,319	-
	Samsung SDI Co., Ltd.	41,079	-	198,085	16,901
	Cheil Worldwide Inc.	34,644	-	419,220	76
	Other	278,091	-	425,725	3,003
	<b>Total</b>	<b>503,960</b>	<b>-</b>	<b>2,356,317</b>	<b>168,483</b>
Other related parties	Samsung C&T Corporation	13,016	70	24,997	1,874,820
	Other	207,882	-	449,283	118,060
	<b>Total</b>	<b>220,898</b>	<b>70</b>	<b>474,280</b>	<b>1,992,880</b>
Other <sup>(*)</sup>	Samsung E&A Co., Ltd.	680	-	15,188	1,359,554
	S-1 Corporation	2,606	-	222,138	7,432
	Other	77,658	-	101,852	147,800
	<b>Total</b>	<b>80,944</b>	<b>-</b>	<b>339,178</b>	<b>1,514,786</b>

(\*) Transactions with separate entities that are related parties of the Company.

(\*) Transactions with the intermediate parent company, Harman International Industries, Inc., and its subsidiaries.

(\*) 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) Balances of receivables and payables

Balances of receivables and payables arising from transactions with related parties as of June 30, 2024 and December 31, 2023 are as follows:

(In millions of Korean won)	Name of company <sup>(*)</sup>	June 30, 2024	
		Receivables and other <sup>(*)</sup>	Payables and other <sup>(*)</sup>
	Samsung Display Co., Ltd.	26,243	237,777
	Samsung Electronics America, Inc. (SEA)	5,248,703	198,846
	Samsung Asia Pte. Ltd. (SAPL)	2,414	1,335
	Samsung Austin Semiconductor LLC. (SAS)	9,451	361,930
	Harman and its subsidiaries <sup>(*)</sup>	1,832	4,539
	Samsung (China) Semiconductor Co., Ltd. (SCS)	67,137	1,083,464
	Samsung Semiconductor, Inc. (SSI)	7,688,494	240,440
	Samsung (CHINA) Investment Co., Ltd. (SCIC)	145,693	2,285
	Samsung Electronics Vietnam THAINGUYEN Co., Ltd. (SEVT)	788,424	3,354,579
	Samsung India Electronics Private Ltd. (SIEL)	839,264	568,621
	Samsung Electronics Europe Holding Cooperatief U.A. (SEEH)	2,166	-
	Samsung Electronics Vietnam Co., Ltd. (SEV)	649,601	2,447,602
	Samsung Display Vietnam Co., Ltd. (SDV)	194,517	-
Subsidiaries	Shanghai Samsung Semiconductor Co., Ltd. (SSS)	6,309,328	28
	Samsung Eletronica da Amazonia Ltda. (SEDA)	315,351	1,478
	Samsung Electronics HCMC CE Complex Co., Ltd. (SEHC)	115,585	506,474
	Samsung Electronics (UK) Ltd. (SEUK)	107,900	56,601
	Samsung Electronics Europe Logistics B.V. (SELS)	553,696	251
	Samsung International, Inc. (SII)	160,843	299,640
	Thai Samsung Electronics Co., Ltd. (TSE)	216,655	186,664
	SEMES Co., Ltd.	46,216	736,658
	Samsung Electronics Taiwan Co., Ltd. (SET)	446,710	47,269
	Samsung Electronics Mexico S.A. De C.V. (SEM)	186,965	1,282
	Samsung Electronics GmbH (SEG)	124,469	15,222
	Samsung Electronics Benelux B.V. (SEBN)	39,082	5,103
	Other	7,811,385	1,685,003
	<b>Total</b>	<b>32,098,124</b>	<b>12,043,091</b>
	Samsung SDS Co., Ltd	5,518	517,298
	Samsung Electro-Mechanics Co., Ltd	475	103,450
Associates and joint ventures	Samsung SDI Co., Ltd	117,677	34,046
	Cheil Worldwide Inc.	15	285,903
	Other	123,387	118,731
	<b>Total</b>	<b>247,072</b>	<b>1,059,428</b>
Other related parties	Samsung C&T Corporation	188,866	510,143
	Other	23,161	259,303
	<b>Total</b>	<b>212,027</b>	<b>769,446</b>
Other <sup>(*)</sup>	Samsung E&A Co., Ltd.	211	1,196,253
	S-1 Corporation	1,136	39,513
	Other	3,870	117,976
	<b>Total</b>	<b>5,217</b>	<b>1,353,742</b>

(\*) Transactions with separate entities that are related parties of the Company.

(\*) The Company has not recognized bad debt allowance in relation to the receivables due from subsidiaries as of June 30, 2024.

(\*) Payables and others include lease liabilities.

(\*) Transactions with the intermediate parent company, Harman International Industries, Inc., and its subsidiaries.

(\*) 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.

(In millions of Korean won)	Name of company <sup>(*1)</sup>	December 31, 2023	
		Receivables and other <sup>(*2)</sup>	Payables and other <sup>(*3)</sup>
	Samsung Display Co., Ltd.	74,259	196,686
	Samsung Electronics America, Inc. (SEA)	3,841,560	1,119,907
	Samsung Asia Pte. Ltd. (SAPL)	2,091	1,147
	Harman and its subsidiaries <sup>(*4)</sup>	5,179	9,659
	Samsung Austin Semiconductor LLC. (SAS)	9,575	303,203
	Samsung (China) Semiconductor Co., Ltd. (SCS)	68,251	687,410
	Samsung Semiconductor, Inc. (SSI)	5,271,414	209,789
	Samsung Electronics Vietnam THAINGUYEN Co., Ltd. (SEVT)	925,410	2,324,691
	Samsung (CHINA) Investment Co., Ltd. (SCIC)	181,785	201,966
	Samsung Electronics Europe Holding Cooperatief U.A. (SEEH)	2,760	-
	Samsung India Electronics Private Ltd. (SIEL)	922,630	297,628
	Samsung Display Vietnam Co., Ltd. (SDV)	90,305	46
	Samsung Electronics Vietnam Co., Ltd. (SEV)	502,410	1,377,493
Subsidiaries	Samsung Eletronica da Amazonia Ltda. (SEDA)	256,936	1,226
	Shanghai Samsung Semiconductor Co., Ltd. (SSS)	3,906,968	281
	Samsung Electronics HCMC CE Complex Co., Ltd. (SEHC)	148,857	367,007
	Thai Samsung Electronics Co., Ltd. (TSE)	280,682	267,659
	Samsung Electronics (UK) Ltd. (SEUK)	64,642	40,118
	SEMES Co., Ltd.	68,340	917,707
	Samsung Electronics Mexico S.A. De C.V. (SEM)	252,813	2,021
	Samsung Electronics GmbH (SEG)	72,258	4,448
	Samsung International, Inc. (SII)	129,178	54,694
	Samsung Electronics Taiwan Co., Ltd. (SET)	362,737	87,718
	Samsung Electronics Benelux B.V. (SEBN)	52,172	6,266
	Samsung Electronics Europe Logistics B.V. (SELS)	413,581	415
	Other	6,556,255	2,607,878
	<b>Total</b>	<b>24,463,048</b>	<b>11,087,063</b>
	Samsung SDS Co., Ltd.	84,541	418,787
	Samsung Electro-Mechanics Co., Ltd.	1,857	86,166
Associates and joint ventures	Samsung SDI Co., Ltd.	114,103	50,149
	Cheil Worldwide Inc.	51	429,435
	Other	164,058	183,813
	<b>Total</b>	<b>364,610</b>	<b>1,168,350</b>
	Samsung C&T Corporation	190,443	1,876,745
Other related parties	Other	13,835	149,585
	<b>Total</b>	<b>204,278</b>	<b>2,026,330</b>
	Samsung E&A Co., Ltd.	269	766,329
Other <sup>(*5)</sup>	S-1 Corporation	598	39,223
	Other	4,342	265,721
	<b>Total</b>	<b>5,209</b>	<b>1,071,273</b>

(\*1) Transactions with separate entities that are related parties of the Company.

(\*2) The Company has not recognized bad debt allowance in relation to the receivables due from subsidiaries as of December 31, 2023.

(\*3) Payables and others include lease liabilities.

(\*4) Transactions with the intermediate parent company, Harman International Industries, Inc., and its subsidiaries.

(\*5) 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.



- (D) For the six-month periods ended June 30, 2024 and 2023, the Company had no lending to its subsidiaries but had borrowing from its subsidiaries amounting to ₩ 0 million and ₩ 21,990,000 million, respectively. In addition, the Company had no lending to or borrowing from associates and joint ventures during the six-month periods ended June 30, 2024 and 2023.
- (E) For the six-month periods ended June 30, 2024 and 2023, the Company invested ₩ 298,433 million and ₩ 10,532 million, respectively, in subsidiaries, and has made capital recovery of ₩ 151,458 million and ₩ 107,217 million from its investments in subsidiaries, respectively. In addition, the Company invested ₩ 0 million and ₩ 58,982 million in associates and joint ventures and has made a recovery of nil and ₩ 518 million from its investments in associates and joint ventures for the six-month periods ended June 30, 2024 and 2023, respectively.
- (F) For the six-month periods ended June 30, 2024 and 2023, the Company declared dividends of ₩ 813,272 million and ₩ 825,850 million, respectively, to related parties. In addition, for the six-month periods ended June 30, 2024 and 2023, the Company declared dividends of ₩ 64,116 million and ₩ 64,116 million, respectively, 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 June 30, 2024, there is no dividends payable outstanding to the entities that belong to the same large enterprise group according to the Monopoly Regulation and Fair Trade Act.
- (G) For the six-month periods ended June 30, 2024 and 2023, the Company entered into lease agreements with its related parties amounting to ₩ 21,752 million and nil, respectively, and the lease payments made to the related parties are ₩ 32,051 million and ₩ 9,963 million, respectively.
- (H) As of June 30, 2024, the Company provides guarantees in relation to borrowings of the related parties (refer to Note 13).
- (I) Key management compensation

The compensation paid or payable to key management (executive directors) for their services for the six-month periods ended June 30, 2024 and 2023 consists of:

<i>(In millions of Korean won)</i>	<b>2024</b>	<b>2023</b>
Short-term employee benefits	4,832	5,154
Post-employment benefits	336	279
Other long-term employee benefits	4,424	3,917

## **6. Dividends**

We continue to work to enhance shareholder value alongside our efforts to strengthen competitiveness of our products and businesses. Based on the previous shareholder return policy covering FY2021 to FY2023, we distributed an annual return of 9.8 trillion won in regular dividends as a part of a total return of 50% of free cash flow. In January 2024, we announced our shareholder return policy for FY2024 to FY2026, which maintains the terms of the previous shareholder return policy: Samsung Electronics will pay an annual regular dividend of 9.8 trillion won as a part of total shareholder returns of 50% of the free cash flow for the period covering FY2024 to FY2026. At the close of each year, we will consider executing an early return of capital beyond regular dividends if we forecast there is potential for a significant surplus. Furthermore, the Company will consider implementing a new policy flexibly before the expiration of the policy for FY2024 to FY2026 in consideration of M&A activities and cash positions.



[Key dividend indices]

Classification		1H24	2023	2022
Par value per share (KRW)		100	100	100
Consolidated net profit <sup>1)</sup> (KRW mil)		16,263,683	14,473,401	54,730,018
Separate net profit (KRW mil)		16,835,854	25,397,099	25,418,778
EPS <sup>2)</sup> (KRW)		2,394	2,131	8,057
Total cash dividend (KRW mil)		4,904,308	9,809,438	9,809,438
Total stock dividend (KRW mil)		-	-	-
Dividend payout ratio (%)		30.2	67.8	17.9
Cash dividend yield (%)	Common	0.9	1.9	2.5
	Preferred	1.1	2.4	2.7
Stock dividend yield (%)	Common	-	-	-
	Preferred	-	-	-
Cash dividend per share (KRW)	Common	722	1,444	1,444
	Preferred	722	1,445	1,445
Stock dividend per share (share)	Common	-	-	-
	Preferred	-	-	-

Dividends were KRW 2,452,154 million (KRW 361 per share) in the first two quarters of 2024 and in the first three quarters of 2022 and 2023. For further information relating to total cash dividend, refer to retained earnings in 『3. Note to Consolidated Financial Statements』 in 『III. Financial Affairs』.

1) Equity attributable to owners of the parent.

2) Basic earnings per common share on a consolidated basis. For further information relating to the calculation of basic EPS, see Earnings Per Share in 『3 Note to Consolidated Financial Statements』 in 『III. Financial Affairs』.

The history of dividend payouts is as follows:

Number of continuous dividend payments		Average dividend yield	
Quarterly/biannual dividends	End-year dividends	Past 3 years	Past 5 years
41	43	2.1%	2.5%

The number of continuous dividend payments includes the quarterly dividend for the quarter and the end-year dividend for the recent business year. Continuous payment of the end-year dividend started in 1981, biannual dividend in 1999, and quarterly dividend in 2017.

The average dividend yield is based on common shares. The average dividend yield of preferred shares for the past 3 years and past 5 years are 2.4% and 2.9% respectively.

The “past 3 years” refers to the period from 2021 through 2023, and the “past 5 years” refers to the period from 2019 through 2023-

For the dividend yield of 1H24, please refer to the table [Key dividend indices] above (common shares at 0.9%, preferred shares at 1.1%).

## 7. Matters about financing through the issuance of securities

### 7-1 Financing through the issuance of securities

#### [Issuance of equity securities]

N/A

#### [Issuance of debt securities]

#### A. List of issued debt securities

(As of June 30, 2024)

(KRW mil, %)

Issuing company	Type of securities	Issuance method	Date of Issuance	Total nominal amount	Interest rate	Rating (rating institution)	Maturity date	Payment status	Management company
Samsung Electronics	Corporate bonds	Public offering	Oct 2, 1997	138,920	7.7	Aa2(Moody's), AA-(S&P)	Oct 1, 2027	Partial redemption	Goldman Sachs et al.
Harman International Industries, Inc	Corporate bonds	Public offering	May 11, 2015	555,680	4.2	A (S&P)	May 15, 2025	Unredeemed	J.P.Morgan et al.
Total	-	-	-	694,600	-	-	-	-	-

#### B. Commercial Paper Unredeemed Balance

(Reporting Date: June 30, 2024)

(KRW mil)

Maturity		Under 10 days	Above 10 days / under 30 days	Above 30 days / under 90 days	Above 90 days / under 180 days	Above 180 days / under 1 year	Above 1 year / under 2 years	Above 2 years / under 3 years	Above 3 years	Total
Unredeemed balance	Public	-	-	-	-	-	-	-	-	-
	Private	-	-	-	-	-	-	-	-	-
	Total	-	-	-	-	-	-	-	-	-

#### C. Short-term Bond Unredeemed Balance

Not Applicable

(Reporting Date: June 30, 2024)

(KRW mil)

Maturity		Under 10 days	Above 10 days / under 30 days	Above 30 days / under 90 days	Above 90 days / under 180 days	Above 180 days / under 1 year	Total	Issue limit	Balance limit
Unredeemed balance	Public	-	-	-	-	-	-	-	-
	Private	-	-	-	-	-	-	-	-
	Total	-	-	-	-	-	-	-	-

## D. Corporate Bond Unredeemed Balance

(Reporting Date: June 30, 2024)

(KRW mil)

Maturity		Under 1 year	Above 1 year / under 2 years	Above 2 years / under 3 years	Above 3 years / under 4 years	Above 4 years / under 5 years	Above 5 years / under 10 years	Above 10 years	Total
Unredeemed balance	Public	562,626	6,946	6,946	6,946	-	-	-	583,464
	Private	-	-	-	-	-	-	-	-
	Total	562,626	6,946	6,946	6,946	-	-	-	583,464

※ Based on consolidated financial statements

※ The exchange rate as of the reporting date has been applied.

- Corporate Bond Unredeemed Balance (Samsung Electronics)

(Reporting Date: June 30, 2024)

(KRW mil)

Maturity		Under 1 year	Above 1 year / under 2 years	Above 2 years / under 3 years	Above 3 years / under 4 years	Above 4 years / under 5 years	Above 5 years / under 10 years	Above 10 years	Total
Unredeemed balance	Public	6,946	6,946	6,946	6,946	-	-	-	27,784
	Total	6,946	6,946	6,946	6,946	-	-	-	27,784

※ The exchange rate as of the reporting date has been applied.

- Corporate Bond Unredeemed Balance (Harman)

(Reporting Date: June 30, 2024)

(KRW mil)

Maturity		Under 1 year	Above 1 year / under 2 years	Above 2 years / under 3 years	Above 3 years / under 4 years	Above 4 years / under 5 years	Above 5 years / under 10 years	Above 10 years	Total
Unredeemed balance	Public	555,680	-	-	-	-	-	-	555,680
	Total	555,680	-	-	-	-	-	-	555,680

※ The exchange rate as of the reporting date has been applied.

## E. Hybrid Bond Unredeemed Balance

Not Applicable

(Reporting Date: June 30, 2024)

(KRW mil)

Maturity		Under 1 year	Above 1 year / under 5 years	Above 5 years / under 10 years	Above 10 years / under 15 years	Above 15 years / under 20 years	Above 20 years / under 30 years	Above 30 years	Total
Unredeemed balance	Public	-	-	-	-	-	-	-	-
	Private	-	-	-	-	-	-	-	-
	Total	-	-	-	-	-	-	-	-

## F. Contingent Convertible Bond Unredeemed Balance

Not Applicable

(Reporting Date: June 30, 2024)

(KRW mil)

Maturity		Under 1 year	Above 1 year / under 2 years	Above 2 years / under 3 years	Above 3 years / under 4 years	Above 4 years / under 5 years	Above 5 years / under 10 years	Above 10 years / under 20 years	Above 20 years / under 30 years	Above 30 years	Total
Unredeemed balance	Public	-	-	-	-	-	-	-	-	-	-
	Private	-	-	-	-	-	-	-	-	-	-
	Total	-	-	-	-	-	-	-	-	-	-

## G. Details and Compliance of the Bond Management Contract (Samsung Electronics)

(Reporting Date: June 30, 2024)

(KRW mil, %)

Name of security	Date of issuance	Maturity date	Issued amount	Settlement date of bond management contract	Debenture management company
US\$ 100,000,000 7.7% debenture	Oct 2, 1997	Oct 1, 2027	138,920	Oct 2, 1997	The Bank of New York Mellon Trust Company, N.A.

(Reporting Date: June 30, 2024)

Financial ratios	Contract details	Not applicable
	Implementation status	Not applicable
Constraint on collateral	Contract details	Less than 10% of net tangible assets
	Implementation status	Compliant (there is no collateral for the relevant assets)

Constraint on disposal of assets	Contract details	Certain requirements, such as transfer of obligations on the bond, must be satisfied to dispose all or most of an asset
	Implementation status	Compliant (disposed assets accounted for 0.0% of the total assets during 1H 2024)
Constraint on governance	Contract Details	Not applicable
	Implementation status	Not applicable
Submission of implementation report	Implementation status	Not applicable

- ※ The exchange rate as of the base date has been applied.
- ※ The date of the bond management contract was signed on the same day as the Fiscal Agency Agreement; accordingly, the Bank of New York Mellon Trust Company, N.A. is under the authority of the Fiscal Agent.
- ※ The net tangible assets subjected to the limitation of collaterals are production facilities and stocks owned by the Company.
- ※ Implementation status base date is the most recent reporting date of financial statements on which external auditor's opinion has been expressed.
- ※ The constraint on governance is as of the reporting date.

## 7-2 Use of funds financed through the issuance of securities

Not applicable

## 8. Other financial information

### A. Restatement of financial statements and other matters to note

(1) Restatement of financial statements: Not Applicable

(2) Acquisition, divestment, asset sales, and sale of business

[Equity Acquisition of eMagin Corporation]

On October 18, 2023, Samsung Display America Holdings, Inc.(SDAH), the company's subsidiary, acquired 100% ownership of eMagin Corporation (CEO: Andrew Sculley, Location: New York, USA) to secure technological competitiveness in micodisplay field.

[Equity Sale of DOWOOINSYS]

On January 31, 2024, Samsung Display Co., Ltd., the company's subsidiary, sold 56.8% of equity stake in DOWOOINSYS among total 69.0% stake held by Samsung Venture Investment Co. No. 29 and No.48 to three companies including Newpower Co., Ltd., to focus its capabilities on main business and R&D amid increasingly intensified competition in OLED industry.

(3) Information on the accounting treatment of the sales of assets related to asset backed securities and contingent liabilities

## Accounting Treatment of the sale of assets related to asset backed securities:

- Not applicable

## 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.

## Debt guarantee

- Domestic: Not applicable

- Overseas:

(USD thousand)

Company	Relationship	Creditor	Guarantee	Transactions			Limit of guarantee
			Expiry date	Beginning of period	Increase/decrease	End of period	
SEA	Subsidiary	BOA etc.	Jun 13, 2025	-	-	-	1,278,000
SEM	Subsidiary	BBVA etc.	Jun 13, 2025	-	-	-	715,000
SAMCOL	Subsidiary	Citibank etc.	Jun 13, 2025	-	-	-	210,000
SEDA	Subsidiary	BRADESCO etc.	Jun 13, 2025	-	-	-	329,000
SECH	Subsidiary	Citibank etc.	Jun 13, 2025	-	-	-	64,000
SEPR	Subsidiary	BBVA etc.	Jun 13, 2025	-	-	-	150,000
SSA	Subsidiary	SCB etc.	Jun 13, 2025	-	-	-	318,000
SEMAG	Subsidiary	SocGen etc.	Dec 16, 2024	8,065	-8,065	-	96,000
SETK	Subsidiary	BNP etc.	Jun 13, 2025	320,893	175,565	496,458	947,000
SETK-P	Subsidiary	BNP etc.	Dec 16, 2024	-	-	-	70,000
SECE	Subsidiary	Citibank	Dec 16, 2024	-	-	-	114,000
SEEG	Subsidiary	HSBC	Jun 13, 2025	-	-	-	85,000
SEIN	Subsidiary	BNP etc.	Jun 13, 2025	-	-	-	70,000
SJC	Subsidiary	Mizuho Bank etc.	May 31, 2025	-	-	-	802,532
SEUC	Subsidiary	Credit Agricole etc.	Jun 13, 2025	-	-	-	125,000
SEDAM	Subsidiary	Citibank etc.	Jun 13, 2025	-	-	-	537,000
SECA	Subsidiary	BoA	Nov 08, 2024	-	-	-	70,000
SELA	Subsidiary	Citibank	Dec 16, 2024	-	-	-	60,000
SEEH	Subsidiary	HSBC etc.	Jun 13, 2025	-	-	-	856,400
SELV	Subsidiary	Citibank	Dec 16, 2024	-	-	-	10,000
SEIL	Subsidiary	Citibank	Dec 16, 2024	-	-	-	15,600
SAPL	Subsidiary	BOA etc.	Jun 13, 2025	-	-	-	404,000
SAVINA	Subsidiary	HSBC	Jun 13, 2025	-	-	-	51,000
SCIC	Subsidiary	HSBC etc.	Jun 13, 2025	-	-	-	270,000
SESP	Subsidiary	SCB	Nov 08, 2024	-	-	-	30,000
SME	Subsidiary	SCB	Nov 08, 2024	-	-	-	110,000
SAMEX	Subsidiary	Citibank	Dec 16, 2024	-	-	-	5,000
SEASA	Subsidiary	Citibank	Dec 16, 2024	-	-	-	2,000
SSAP	Subsidiary	SCB	Nov 08, 2024	-	-	-	35,000
SEPM	Subsidiary	HSBC	Jun 13, 2025	-	-	-	35,000
SESAR	Subsidiary	HSBC	Jun 13, 2025	-	-	-	20,000
SEUZ	Subsidiary	Citibank	Dec 16, 2024	-	-	-	10,000
AdGear Technologies Inc.	Subsidiary	BOA	Nov 08, 2024	-	-	-	2,000
Harman International Industries, Inc.	Subsidiary	JP Morgan	Jun 13, 2024	-	-	-	100,000
Harman International Japan Co., Ltd.	Subsidiary	MUFG	Nov 08, 2024	-	-	-	25,000
Harman Holding Limited	Subsidiary	HSBC	Jun 13, 2024	-	-	-	30,000
Harman do Brasil Industria Eletronica e Participacoes Ltda.	Subsidiary	SocGen	Nov 08, 2024	-	-	-	15,000
Harman da Amazonia Industria Eletronica e Participacoes Ltda.							
Harman International Industries Limited	Subsidiary	HSBC	Jun 13, 2024	-	-	-	30,000
SDN	Subsidiary	SIEL	Feb 19, 2026	510,977	-1,727	509,250	599,118
SAS	Subsidiary	Epcor	The date of debt expiration	-	-	-	340,000
Total				839,935	165,773	1,005,708	9,035,650

- ※ On a consolidated basis. Debt guarantees for SDN are provided by Samsung Display Co., Ltd. and SAS by SEA, respectively.
- ※ SEC requires Board approval for individual guarantees exceeding 2.5% of total equity. When the guarantee amount is between 0.1% and/or less than 2.5%, the approval decision is delegated to the Management Committee. Samsung Display Co., Ltd requires Board approval for individual guarantees over KRW 10,000 million.
- ※ SEC claims fees on the debt guarantees depending on the maturity date of each debt guarantee, general loan interest rate, etc.  
In 2023, the Company claimed approximately USD 2,141,000 in guarantee fees and collected the amount in 2024.  
In 2023, Samsung Display Co., Ltd. claimed approximately USD 3,066,000 in guarantee fees to SDN and collected the amount in 2024.  
Refer to the notes to the consolidated financial statements for the information on contingent liabilities.

#### (4) Other matters requiring attention in relation to the use of the financial statements

##### A. Emphasis of matter and key audit matter in Independent auditor's report

Period	Emphasis of matter	Key audit matter
1H24	Not applicable	Not applicable
2023	Not applicable	(Consolidated financial statement) 1. Valuation of memory semiconductor inventory at net realizable value 2. Accuracy and completeness of sales deduction related to sales promotion activities of products (Separate financial statement) 1. Valuation of memory semiconductor inventory at net realizable value 2. Accuracy and completeness of sales deduction related to sales promotion activities of products
2022	Not applicable	(Consolidated financial statement) 1. Sales deduction related to sales promotion activities of products (Separate financial statement) 1. Sales deduction related to sales promotion activities of products

##### B. Allowance for bad debt

The allowances for bad debt by account over the past 3 years are as follows:

(KRW mil, %)				
Period	Account	Receivables amount	Allowance amount	Allowance
1H24	Trade receivables	43,999,540	338,655	0.8%
	Short-term loans	21,088	199	0.9%
	Other receivables	7,813,373	83,811	1.1%
	Advances	1,209,389	3,769	0.3%
	Trade receivables (long-term)	26,464	-	0.0%
	Other receivables (long-term)	933,790	194	0.0%
	Advances (long-term)	5,526,359	8,036	0.1%
	Long-term loans	236,362	90,095	38.1%
	Total	59,766,365	524,759	0.9%
2023	Trade receivables	37,002,849	355,456	1.0%
	Short-term loans	21,279	204	1.0%
	Other receivables	6,715,263	82,015	1.2%
	Advances	994,525	3,316	0.3%
	Trade receivables (long-term)	23,889	-	0.0%
	Other receivables (long-term)	759,704	209	0.0%

Period	Account	Receivables amount	Allowance amount	Allowance
	Advances (long-term)	4,964,481	9,255	0.2%
	Long-term loans	239,149	77,608	32.5%
	Total	50,721,139	528,063	1.0%
2022	Trade receivables	36,033,784	312,221	0.9%
	Short-term loans	22,403	215	1.0%
	Other receivables	6,227,068	77,859	1.3%
	Advances	1,741,031	3,965	0.2%
	Trade receivables (long-term)	204,248	-	0.0%
	Other receivables (long-term)	824,468	242	0.0%
	Advances (long-term)	2,382,711	10,969	0.5%
	Long-term loans	225,983	1,206	0.5%
	Total	47,661,696	406,677	0.9%

※ Based on consolidated financial statements

※ Receivables amount represents the value after deducting present value discount account

#### Allowance for bad debt by year

(KRW mil)

	1H24	2023	2022
1. Allowance for bad debt (beginning balance)	528,063	406,677	397,525
2. Net bad debt expense (① - ② + ③)	-14,123	14,647	16,658
① Bad debt expense, etc (Write-off)	3,765	19,179	9,711
② Bad debt recovered	-	4	-
③ Others	-17,888	-4,528	6,947
3. Bad debts expense	-17,427	136,033	25,810
4. Allowance for bad debts (Ending balance)	524,759	528,063	406,677

※ Based on consolidated financial statements.

#### The guideline for bad debt allowances for trade receivables

##### (1) Calculation of bad debt allowance

- Bad debt allowance is calculated using an expected credit loss impairment model which is based on write-off experience rate and future expected bad debt amount.

##### (2) Calculation basis of write-off experience rate and future expected bad debt:

- Write-off experience rate for each aging group of receivables is calculated based on the actual rate of credit losses to three-year average receivables balance.



- Future expected bad debt is determined taking into consideration cases of debtor bankruptcy, compulsory execution, death, disappearance, credit information of debtor and forward-looking information.

[Bad debt allowance by circumstance]

Circumstance	Rate of allowance
Dispute or conflict	25%
Receivable through utilization of third party collection agency	50%
Receivable under litigation	75%
Customer filed or in the process of filing bankruptcy	100%

(3) Instruction: Write-off is recorded when trade receivables contain the following characteristics:

- Objective proof of bad debts, such as bankruptcy, compulsory execution, discontinuance of business, debtor's death or disappearance
- Legal action has failed or the right of collection has been extinguished.
- When the third party collection agency notifies that collection is not possible.
- When the collateral is sold or insurance is received.
- When collection expense exceeds receivables amount.

**The outstanding period of trade receivables**

(Reporting Date: June 30, 2024)

(KRW mil, %)

	Less than 6 months	6 months ~ 1 year	1 year ~ 3 years	More than 3 years	Total
Amount	43,784,454	33,294	99,144	109,112	44,026,004
Ratio	99.5%	0.1%	0.2%	0.2%	100.0%

※ Base on consolidated financial statements

※ Receivables amount represents the value after deducting present value discount account

## C. Inventory

- The inventory status by Division over the last three years is as follows:

(KRW mil, %)

Division	Category	1H24	2023	2022	Note
DX	Finished goods	6,910,674	7,229,898	7,712,885	
	Work in process	1,021,544	967,513	1,013,606	
	Raw material	11,681,323	9,608,619	10,520,293	
	Material in transit	1,331,370	1,014,420	943,322	
	Total	20,944,911	18,820,450	20,190,106	
DS	Finished goods	6,426,376	6,476,768	6,601,087	
	Work in process	22,017,799	20,961,730	18,756,104	
	Raw material	3,821,265	3,484,046	3,639,061	
	Material in transit	65,403	76,226	61,352	
	Total	32,330,843	30,998,770	29,057,604	
SDC	Finished goods	137,312	284,394	811,518	
	Work in process	423,680	296,788	542,473	
	Raw material	805,136	564,573	788,521	
	Material in transit	27,974	6,509	23,626	
	Total	1,394,102	1,152,264	2,166,138	
Harman	Finished goods	831,393	725,484	799,919	
	Work in process	115,501	104,514	119,890	
	Raw material	724,732	700,011	913,085	
	Material in transit	480,454	319,785	269,715	
	Total	2,152,080	1,849,794	2,102,609	
Total	Finished goods	14,365,686	14,553,014	16,032,226	
	Work in process	23,383,335	22,198,448	20,077,519	
	Raw material	16,284,512	13,697,354	14,979,280	
	Material in transit	1,533,080	1,177,058	1,098,841	
	Total	55,566,613	51,625,874	52,187,866	
Inventory ratio (%) [Inventory ÷ Total Assets] × 100		11.4%	11.3%	11.6%	
Inventory turnover (x) [ Yearly COGS ÷ {(Beginning inventory + Ending inventory)÷2}]		3.4	3.5	4.1	

※ Based on consolidated financial statements

## Inventory counts

### (1) Inspection date

- End of May and November (twice a year)
- For the difference between the inspection date and year-end, the Company verifies receiving and shipping of inventory during the period thereby confirming existence of inventory on the reporting date.

### (2) Inspection method

- Internal warehouse: Closed & entire quantity inspection
- ※ Sample tests on semi-conductor and display panel in the production lines and SVC materials in automated warehouses
- Outside warehouse
  - Conduct both sample tests and total inspections on third-party inventory and inventory-in-transit by requiring their custodians to submit confirmation documents
- External auditors join and observe the inspection and carry out sample tests to confirm the existence and completeness.
- ※ For the HQ, the most recent inventory inspection was conducted from May 31 to Jun 3, 2024, and the subsidiaries conducted the inventory inspection during the same period as HQ.

## Inventory aging and valuation

Inventory is recognized at the lower of cost or net realizable value. Inventory as of June 30, 2024 are as follows:

(KRW mil)

Category	Acquisition cost	Inventory valuation reserve	Balance	Note
Finished goods	15,352,148	-986,462	14,365,686	
Work in process	24,763,317	-1,379,982	23,383,335	
Raw material	17,917,565	-1,633,053	16,284,512	
Material in transit	1,533,080	-	1,533,080	
Total	59,566,110	-3,999,497	55,566,613	

※ Based on consolidated financial statements

## D. Fair value estimation

Refer to 3. Financial Instruments by Category and 25. Financial Risk Management in 『III. Financial Affairs』 .

## IV. Management Discussion and Analysis

Pursuant to the reporting guidelines set forth by the *Financial Supervisory Service* of the Republic of Korea, the Management Discussion and Analysis section, reported in the full-year business report, is not included in the 1Q, half-year, and 3Q reports.

## V. Auditor's Report

### 1. Introduction

Samjong KPMG conducted audit on the consolidated/separate financial statements of the Company for the year ended December 31, 2023 and review for the period ended June 30, 2024. The company received an unqualified opinion for the year 2023, and the financial statements for the the period ended June 30, 2024 are presented fairly, in all material respects, in accordance with Korean IFRS 1034 Interim Financial Reporting.

Deloitte Anjin conducted audit on the consolidated/separate financial statements of the Company for the year ended December 31, 2022 and expressed an unqualified opinion.

All of the Company's subsidiaries received unqualified opinions for the disclosure periods.

Period end	Company Auditor	Audit Opinion	Emphasis of Matter	Key Audit Matter(s)
Jun 30, 2024	Samjong KPMG	Not applicable	Not applicable	Not applicable
Dec 31, 2023	Samjong KPMG	Unqualified	Not applicable	(Consolidated) 1. Valuation of memory semiconductor inventory at net realizable value 2. Accuracy and completeness of sales deduction related to sales promotion activities of products (Separate) 1. Valuation of memory semiconductor inventory at net realizable value 2. Accuracy and completeness of sales deduction related to sales promotion activities of products
Dec 31, 2022	Deloitte Anjin	Unqualified	Not applicable	(Consolidated) 1. Sales deduction related to sales promotion activities of products (Separate) 1. Sales deduction related to sales promotion activities of products

※ Audit opinion on both separate and consolidated financial statements.

[Audit Contract Description]

(KRW mil)

Fiscal Period	Auditor	Description	Contract		Actual	
			Audit fee	Total Hours	Fee Claimed	Hours spent
Half-year ended June 30, 2024	Samjong KPMG	- Review of the interim separate/consolidated financial statements - Audit of separate/consolidated financial statements - Audit of separate/consolidated Internal Control over Financial Reporting	7,800	78,000	3,085	30,849
Year ended Dec 31, 2023	Samjong KPMG	- Review of the interim separate/consolidated financial statements - Audit of separate/consolidated financial statements - Audit of separate/consolidated Internal Control over Financial Reporting	7,800	85,700	7,800	85,036
Year ended Dec 31, 2022	Deloitte Anjin	- Review of the interim separate/consolidated financial statements - Audit of separate/consolidated financial statements - Audit of Internal Control over Financial Reporting (ICFR)	8,424	78,000	8,424	78,146

< Review Schedule for the period ended June 30, 2024 >

Review Period		Planned Dates
2024 1Q	Pre-review	Mar 11, 2024 ~ Mar 29, 2024
	Review	Apr 8, 2024 ~ May 14, 2024
2024 2Q	Pre-review	Jun 10, 2024 ~ Jun 27, 2024
	Review	Jul 8, 2024 ~ Aug 13, 2024

※ Above schedule is for the review of separate and consolidated financial statements

[Non-Audit Service Contract Description]

(KRW mil)

Fiscal Period	Contract Date	Non-audit Service Description	Period for Service	Compensation	Note
Half-year ended Jun 30, 2024	Feb 2017	Tax advisory services(overseas subsidiaries)	Jan – Jun 2024	43	Samjong KPMG
	Sep 2018	Tax advisory services(overseas subsidiaries)	Jan – May 2024	-	
	May 2019	Tax advisory services(overseas subsidiaries)	Jan – Jun 2024	73	
Year ended Dec 31, 2023	Feb 2017	Tax advisory services(overseas subsidiaries)	Jan – Dec 2023	202	Samjong KPMG
	Sep 2018	Tax advisory services(overseas subsidiaries)	Jan – Dec 2023	27	
	May 2019	Tax advisory services(overseas subsidiaries)	Jan – Dec 2023	79	
	May 2023	ESG certification(domestic subsidiaries)	May – Jul 2023	25	
Year ended Dec 31, 2022	-	-	-	-	-

[Details of internal audit committee's discussion with Auditors]

No.	Date	Participants	Method	Details of discussion
1	Jan 29, 2024	Audit Committee: 3 members Company: Head of Audit Team Auditor: Signing partner and 5 others	Face-to-face meeting	- Annual audit plan and its progress - Key Audit Matters and other areas of focus - Progress of audit of Internal Control over Financial Reporting - Other required communications at the completion stage of the audit
2	Apr 26, 2024	Audit Committee: 3 members Company: Head of Audit Team Auditor: Signing partner and 5 others	Face-to-face meeting	- Reporting on progress of quarterly review - Audit plan for the year 2024 - Other required communications at the planning stage of the audit
3	Jul 29, 2024	Audit Committee: 3 members Company: Head of Audit Team Auditor: Signing partner and 5 others	Face-to-face meeting	- Annual audit plan and its progress - Plan for Key Audit Matters selection - Quarterly review focus and other required communications

## 2. Change of Independent Auditor

There are 226 subsidiaries as of June 30, 2024. Harman International Industries, Inc. and 9 other overseas subsidiaries changed from PwC to KPMG and Harman International Korea, Inc., the Company's domestic subsidiary, changed its external auditor from Samil PwC to Samjong KPMG. Also, eMagin Corporation, the Company's newly acquired affiliate, and Samsung Federal Inc., which was established in 2023, appointed KPMG as external auditor. Appointment of external auditor is decided at each entity's own discretion.

Details of change in subsidiaries' external auditors during the period are as follows:

Subsidiaries	Previous auditor	Current Auditor
Harman International Korea, Inc.	Samil PwC	Samjong KPMG
Harman International Industries, Inc.	PwC	KPMG
Harman Automotive Electronic Systems (Suzhou) Co., Ltd.	PwC	KPMG
Harman International (China) Holdings Co., Ltd.	PwC	KPMG
Harman Becker Automotive Systems GmbH	PwC	KPMG
Harman Becker Automotive Systems Manufacturing Kft	PwC	KPMG
Harman Connected Services GmbH	PwC	KPMG
Harman Deutschland GmbH	PwC	KPMG
Harman Holding GmbH & Co. KG	PwC	KPMG
Harman Hungary Financing Ltd.	PwC	KPMG
Harman Professional Kft	PwC	KPMG

The Company has changed its external auditor from Deloitte Anjin to Samjong KPMG since 2023. Upon the expiration of contract with Deloitte Anjin at the end of 2022, which was the designated auditor, the audit committee has newly appointed Samjong KPMG as the Company's external auditor for three years for the period 2023-2025, in accordance with Article 10 (1), (3) and (4) of the "Act on External Audit of Stock Companies".

For the year ended December 31, 2023, the Company holds 232 subsidiaries. In 2023, 8 domestic subsidiaries, including Samsung Display Co., Ltd., changed external auditor from Deloitte Anjin to Samjong KPMG and SU Materials Co., Ltd. from E&Y Hanyoung to Samjong KPMG. Among overseas subsidiaries, 30 companies including Samsung Electronics America, Inc. (SEA) switched from Deloitte to KPMG, 65 including Samsung (China) Semiconductor Co., Ltd. (SCS) from PwC to KPMG, 6 including Samsung Electronics Benelux B.V. (SEBN) from E&Y to KPMG, and Laos Samsung Electronics Sole Co., Ltd (LSE) from KPP Co., Ltd to KPMG. Samsung Venture Investment Co. No. 62 established in 2023 and Stellar Forest Co., Ltd. established in 2022 appointed Samjong KPMG, and Samsung Electronics Uzbekistan FC LCC (SEUZ) and DOWOINSYS VINA COMPANY LIMITED appointed KPMG as their external auditors. As the Company

switched its external auditor, those subsidiaries newly designated and shifted their auditors in pursuit of efficient consolidated audit at each entity's own discretion.

Details of change in subsidiaries' external auditors during the year are as follows:

Subsidiaries	Previous auditor	Current Auditor
Samsung Display Co., Ltd.	Deloitte Anjin	Samjong KPMG
Samsung Electronics Service Co., Ltd.	Deloitte Anjin	Samjong KPMG
Samsung Electronics Service CS Co., Ltd.	Deloitte Anjin	Samjong KPMG
Samsung Electronics Sales Co., Ltd.	Deloitte Anjin	Samjong KPMG
Samsung Electronics Logitech Co., Ltd.	Deloitte Anjin	Samjong KPMG
Dowoinsys Co., Ltd.	Deloitte Anjin	Samjong KPMG
Gf-System Co., Ltd.	Deloitte Anjin	Samjong KPMG
Mirero System Co., Ltd.	Deloitte Anjin	Samjong KPMG
SU Materials Co., Ltd.	E&Y Hanyoung	Samjong KPMG
Samsung Electronics America, Inc. (SEA)	Deloitte	KPMG
Samsung Semiconductor, Inc. (SSI)	Deloitte	KPMG
Samsung Mexicana S.A. de C.V (SAMEX)	Deloitte	KPMG
Samsung International, Inc. (SII)	Deloitte	KPMG
Samsung Austin Semiconductor LLC. (SAS)	Deloitte	KPMG
Samsung Electronics Mexico S.A. De C.V. (SEM)	Deloitte	KPMG
Samsung Electronics (UK) Ltd. (SEUK)	Deloitte	KPMG
Samsung Electronics Holding GmbH (SEHG)	Deloitte	KPMG
Samsung Semiconductor Europe GmbH (SSEG)	Deloitte	KPMG
Samsung Electronics GmbH (SEG)	Deloitte	KPMG
Samsung Semiconductor Europe Limited (SSEL)	Deloitte	KPMG
Samsung Vina Electronics Co., Ltd. (SAVINA)	Deloitte	KPMG
Samsung Electronics Singapore Pte. Ltd. (SESP)	Deloitte	KPMG
Samsung Asia Pte. Ltd. (SAPL)	Deloitte	KPMG
Samsung Electronics Australia Pty. Ltd. (SEAU)	Deloitte	KPMG
Thai Samsung Electronics Co., Ltd. (TSE)	Deloitte	KPMG
Samsung Display Vietnam Co., Ltd. (SDV)	Deloitte	KPMG
Samsung R&D Institute BanglaDesh Limited (SRBD)	Deloitte	KPMG
Samsung Electronics Vietnam Co., Ltd. (SEV)	Deloitte	KPMG
Samsung Electronics Vietnam THAINGUYEN Co., Ltd. (SEVT)	Deloitte	KPMG
Samsung Electronics HCMC CE Complex Co., Ltd. (SEHC)	Deloitte	KPMG
Samsung (CHINA) Investment Co., Ltd. (SCIC)	Deloitte	KPMG
Samsung Electronics Taiwan Co., Ltd. (SET)	Deloitte	KPMG
Shanghai Samsung Semiconductor Co., Ltd. (SSS)	Deloitte	KPMG
Samsung Gulf Electronics Co., Ltd. (SGE)	Deloitte	KPMG
Samsung Electronics Saudi Arabia Ltd. (SESAR)	Deloitte	KPMG
Samsung Electronics South Africa(Pty) Ltd. (SSA)	Deloitte	KPMG
Samsung Electronics Turkiye (SETK)	Deloitte	KPMG
Samsung Electronics Industry and Commerce Ltd. (SETK-P)	Deloitte	KPMG
Samsung Eletronica da Amazonia Ltda. (SEDA)	Deloitte	KPMG
Samsung Japan Corporation (SJC)	PwC	KPMG
Samsung R&D Institute Japan Co. Ltd. (SRJ)	PwC	KPMG
Samsung Electronics Japan Co., Ltd. (SEJ)	PwC	KPMG
Samsung Oak Holdings, Inc. (SHI)	PwC	KPMG
Samsung Electronics Canada, Inc. (SECA)	PwC	KPMG
Samsung Research America, Inc (SRA)	PwC	KPMG
SAMSUNG NEXT LLC (SNX)	PwC	KPMG
SAMSUNG NEXT FUND LLC (SNXF)	PwC	KPMG
Samsung Electronics Home Appliances America, LLC (SEHA)	PwC	KPMG



Samsung Electronics Digital Appliance Mexico, SA de CV (SEDAM)	PwC	KPMG
Samsung Electronics Latinoamerica Miami, Inc. (SEMI)	PwC	KPMG
Samsung Electronics France S.A.S (SEF)	PwC	KPMG
Samsung Electronics Hungarian Private Co. Ltd. (SEH)	PwC	KPMG
Samsung Electronics Czech and Slovak s.r.o. (SECZ)	PwC	KPMG
Samsung Electronics Italia S.P.A. (SEI)	PwC	KPMG
Samsung Electronics Europe Logistics B.V. (SELS)	PwC	KPMG
Samsung Electronics Romania LLC (SEROM)	PwC	KPMG
Samsung Electronics Overseas B.V. (SEO)	PwC	KPMG
Samsung Electronics Polska, SP.Zo.o (SEPOL)	PwC	KPMG
Samsung Electronics Nordic Aktiebolag (SENA)	PwC	KPMG
Samsung Electronics Austria GmbH (SEAG)	PwC	KPMG
Samsung Electronics Switzerland GmbH (SESG)	PwC	KPMG
SAMSUNG ELECTRONICS BALTICS SIA (SEB)	PwC	KPMG
Samsung Electronics Europe Holding Cooperatief U.A. (SEEH)	PwC	KPMG
Samsung Electronics Poland Manufacturing SP.Zo.o (SEPM)	PwC	KPMG
Samsung Electronics Greece S.M.S.A (SEGR)	PwC	KPMG
Samsung Nanoradio Design Center (SNDC)	PwC	KPMG
Samsung Electronics Air Conditioner Europe B.V. (SEACE)	PwC	KPMG
Samsung Denmark Research Center ApS (SDRC)	PwC	KPMG
Samsung Cambridge Solution Centre Limited (SCSC)	PwC	KPMG
Samsung R&D Institute India-Bangalore Private Limited (SRI-Bangalore)	PwC	KPMG
Samsung Electronics New Zealand Limited (SENZ)	PwC	KPMG
PT Samsung Electronics Indonesia (SEIN)	PwC	KPMG
PT Samsung Telecommunications Indonesia (STIN)	PwC	KPMG
Samsung Display Noida Private Limited (SDN)	PwC	KPMG
Samsung Display Dongguan Co., Ltd. (SDD)	PwC	KPMG
Samsung Display Tianjin Co., Ltd. (SDT)	PwC	KPMG
Samsung Electronics Hong Kong Co., Ltd. (SEHK)	PwC	KPMG
Suzhou Samsung Electronics Co., Ltd. (SSEC)	PwC	KPMG
Samsung Suzhou Electronics Export Co., Ltd. (SSEC-E)	PwC	KPMG
Samsung Mobile R&D Center China-Guangzhou (SRC-Guangzhou)	PwC	KPMG
Samsung R&D Institute China-Shenzhen (SRC-Shenzhen)	PwC	KPMG
Samsung Electronics Suzhou Semiconductor Co., Ltd. (SESS)	PwC	KPMG
SEMES (XIAN) Co., Ltd.	PwC	KPMG
Beijing Samsung Telecom R&D Center (SRC-Beijing)	PwC	KPMG
Samsung Electronics Suzhou Computer Co., Ltd. (SESC)	PwC	KPMG
Samsung Semiconductor (China) R&D Co., Ltd. (SSCR)	PwC	KPMG
Samsung Electronics China R&D Center (SRC-Nanjing)	PwC	KPMG
Samsung (China) Semiconductor Co., Ltd. (SCS)	PwC	KPMG
Samsung SemiConductor Xian Co., Ltd. (SSCX)	PwC	KPMG
Samsung Electronics West Africa Ltd. (SEWA)	PwC	KPMG
Samsung Electronics East Africa Ltd. (SEEA)	PwC	KPMG
Samsung Electronics Israel Ltd. (SEIL)	PwC	KPMG
Samsung Electronics Tunisia S.A.R.L (SETN)	PwC	KPMG
Samsung Electronics Pakistan(Private) Ltd. (SEPAK)	PwC	KPMG
Samsung Electronics South Africa Production (pty) Ltd. (SSAP)	PwC	KPMG
Samsung Semiconductor Israel R&D Center, Ltd. (SIRC)	PwC	KPMG
Samsung Electronics Maghreb Arab (SEMAG)	PwC	KPMG
Samsung Electronics Latinoamerica(Zona Libre), S. A. (SELA)	PwC	KPMG
Samsung Electronica Colombia S.A. (SAMCOL)	PwC	KPMG
Samsung Electronics Chile Limitada (SECH)	PwC	KPMG

Samsung Electronics Peru S.A.C. (SEPR)	PwC	KPMG
Samsung Electronics Ukraine Company LLC (SEUC)	PwC	KPMG
Samsung R&D Institute Ukraine (SRUKR)	PwC	KPMG
Samsung Electronics Central Eurasia LLP (SECE)	PwC	KPMG
Samsung Electronics Iberia, S.A. (SESA)	E&Y	KPMG
Samsung Electronics Benelux B.V. (SEBN)	E&Y	KPMG
Samsung Electronics Portuguesa, Unipessoal, Lda. (SEP)	E&Y	KPMG
Samsung Electronics Philippines Corporation (SEPCO)	E&Y	KPMG
Samsung Electronics Levant Co.,Ltd. (SELV)	E&Y	KPMG
Samsung Electronics Caucasus Co. Ltd (SECC)	E&Y	KPMG
Laos Samsung Electronics Sole Co., Ltd (LSE)	KPP Co., Ltd	KPMG

There are 232 subsidiaries as of December 31, 2022, and Samsung R&D Institute Ukraine (SRUKR) newly appointed PwC, and Samsung Venture Investment Co. No. 52, No. 55, No. 56, and No. 57 appointed Samjong KPMG as external auditors, respectively. Appointment of external auditor is decided at each entity's own discretion.

### 3. Regarding Internal Control

[Audit opinion of Internal Control over Financial Reporting (ICFR)]

Fiscal Period	Group Auditor	Opinion	Remarks
Half-year ended Jun 30, 2024	Samjong KPMG	Not applicable	Not applicable
Year ended Dec 31, 2023	Samjong KPMG	[Separate ICFR] The Company maintained, in all material respects, effective internal control over financial reporting as of December 31, 2023, based on <i>Conceptual Framework for Designing and Operating Internal Control over Financial Reporting</i> . [Consolidated ICFR] The Company maintained, in all material respects, effective consolidated internal control over financial reporting as of December 31, 2023, based on <i>Conceptual Framework for Designing and Operating Internal Control over Financial Reporting</i> .	Not applicable
Year ended Dec 31, 2022	Deloitte Anjin	The Company maintained, in all material respects, effective internal control over financial reporting as of December 31, 2022, based on <i>Conceptual Framework for Designing and Operating Internal Control over Financial Reporting</i> .	Not applicable

## VI. Corporate Governance

### 1. Board of Directors

#### A. Overview

As of the end of the first half of 2024, the Board of Directors consisted of 10 members: 4 Executive Directors (Jong-hee Han, Taemoon Roh, Hark-kyu Park, and Jung-bae Lee) and 6 Independent Directors (Han-jo Kim, Jun-sung Kim, Eun-nyeong Heo, Je-yoon Shin and Hye-kyung Cho). The Board appointed Han-jo Kim as Chair as he is the most qualified to manage Board activities, which includes his ability to mediate Director opinions. The roles of Board Chair and CEO were separated to enhance the Board's independence and transparency.

The Board has six committees: Management Committee, Audit Committee, Independent Director Recommendation Committee, Related Party Transactions Committee, Compensation Committee, and Sustainability Committee.

[As of June 30, 2024]

Classification	Composition	Members	Head	Role
Board of Directors	4 Executive Directors	Jong-hee Han, Tae-moon Roh, Hark-kyu Park, Jung-bae Lee	Han-jo Kim (Independent)	<ul style="list-style-type: none"> <li>- Make resolutions on matters provided for by the relevant laws and regulations or the Articles of Incorporation, matters delegated by a general meeting of shareholders, as well as on important matters concerning basic policies and business execution.</li> <li>- Supervise management.</li> </ul>
	6 Independent Directors	Han-jo Kim, Jun-sung Kim, Eun-nyeong Heo, Myung-hee Yoo, Je-yoon Shin, Hye-kyung Cho		
Management Committee	4 Executive Directors	Jong-hee Han, Tae-moon Roh, Hark-kyu Park, Jung-bae Lee	Jong-hee Han (Executive)	<ul style="list-style-type: none"> <li>- Deliberate and decide on matters related to finance, general management, and on matters specifically delegated by the Board.</li> </ul>
Audit Committee	3 Independent Directors	Han-jo Kim, Myung-hee Yoo, Hye-kyung Cho	Han-jo Kim (Independent)	<ul style="list-style-type: none"> <li>- Review and audit matters concerning management of the Company, including the Company's financial situation.</li> </ul>
Independent Director Recommendation Committee	3 Independent Director	Eun-nyeong Heo, Myung-hee Yoo, Je-yoon Shin	-	<ul style="list-style-type: none"> <li>- Assess the independence, diversity, and ability of potential candidates for Independent Director positions.</li> <li>- Recommend candidates.</li> </ul>
Related Party Transactions Committee	3 Independent Directors	Eun-nyeong Heo, Han-jo Kim, Myung-hee Yoo	Eun-nyeong Heo (Independent)	<ul style="list-style-type: none"> <li>- Voluntarily comply with fair transaction regulations to enhance corporate transparency.</li> </ul>
Compensation Committee	3 Independent Directors	Han-jo Kim, Jun-sung Kim, Je-yoon Shin	-	<ul style="list-style-type: none"> <li>- Ensure the objectivity and transparency of the decision-making process for Director compensation.</li> </ul>
Sustainability Committee	6 Independent Directors	Han-jo Kim, Jun-sung Kim, Eun-nyeong Heo, Myung-hee Yoo, Je-yoon Shin, Hye-kyung Cho	Han-jo Kim (Independent)	<ul style="list-style-type: none"> <li>- Promote sustainability management in ESG areas and enhance shareholder value.</li> </ul>

☞ For more information on the appointment of each Board member, please refer to 『I. Corporate Overview-2. Company history』

※ Mar 16, 2022: Independent Director Han-jo Kim was appointed as Board Chair and member of the Compensation Committee, Independent Director Jun-sung Kim as member of the Compensation Committee and Sustainability Committee, and all the Executive Directors as members of the Management Committee at the Board meeting.

※ April 26, 2022: Independent Director Han-jo Kim was appointed as the Head of the Audit Committee

※ April 28, 2022: Independent Director Han-jo Kim was appointed as the Head of the Sustainability Committee

Nov 3, 2022: Eun-nyeong Heo and Myung-hee Yoo were newly appointed as Independent Directors at the EGM and as members of the Sustainability Committee at the Board meeting.

Mar 15, 2023: Executive Director Jong-hee Han was appointed as a member of the Management Committee, and Independent Directors Eun-nyeong Heo and Myung-hee Yoo were appointed as members of the Independent Director Recommendation Committee at the Board meeting.

※ April 27, 2023: Executive Director Jong-hee Han was appointed as the Head of the Management Committee

※ March 20, 2024: Je-yoon Shin was newly appointed as Independent Director, Hye-kyung Cho was newly appointed as Independent Director for Audit Committee member, and Myung-hee Yoo was appointed as member of the Audit Committee at the AGM. Independent Director Eun-nyeong

Heo and Independent Director Myung-hee Yoo were appointed as members of the Related Party Transaction Committee; Independent Director Je-yoon Shin was appointed as member of the Independent Director Recommendation Committee, Compensation Committee, and Sustainability Committee; and Independent Director Hye-Kyung Cho was appointed as member of the Sustainability Committee at the Board meeting.

※ April 26, 2024: Independent Director Eun-nyeong Heo was appointed as the Head of the Related Party Transaction Committee.

※ May 21, 2024: Kye-hyun Kyung resigned from his position of Executive Director.

※ Heads of the Independent Director Recommendation Committee and Compensation Committee are scheduled to be appointed at the next Committee meetings.

The number of Independent Directors and changes in the number are shown below.

Number of Directors	Number of Independent Directors	Changes of Independent Directors		
		Appointed	Dismissed	Resigned
10	6	2	-	1

## B. Agendas considered and voting results

Date	Agenda	Results	Executive Directors (attendance)					Independent Directors (attendance)							
			Jong-hee Han (100%)	Kye-hyun Kyung (100%)	Tae-moon Roh (100%)	Hark-kyu Park (100%)	Jung-bae Lee (100%)	Han-jo Kim (100%)	Sun-uk Kim (100%)	Jeong Kim (100%)	Jun-sung Kim (100%)	Eun-nyeong Heo (100%)	Myung-hee Yoo (100%)	Je-yoon Shin (100%)	Hye-kyung Cho (100%)
Jan 31	1. Approval of FY23 financial statements and full-year business report	Approved	For	For	For	For	For	For	For	For	For	For	For	N/A (newly appointed)	N/A (newly appointed)
	2. Approval of shareholder return policy for FY24-26	Approved	For	For	For	For	For	For	For	For	Against	For	For		
	3.Appointment of SCC member	Approved	For	For	For	For	For	For	For	For	For	For	For		
	4.Collection of fees for the use of CI mark from Samsung Medison	Approved	For	For	For	For	For	For	For	For	For	For	For		
Feb 20	※ Reported Items														
	① Report on FY23 internal accounting management system activities														
Feb 20	② Report on evaluation of FY23 internal accounting management system activities														
	1. Decision to convene the 55th AMG	Approved	For	For	For	For	For	For	For	For	For	For	For	N/A (newly appointed)	N/A (newly appointed)
2. Decision on the 55th AGM agenda items	Approved	For	For	For	For	For	For	For	For	For	For	For			
Feb 20	□ Reported Items														
	① FY23 annual audit report														
	② FY23 full-year business report														
	③ Report on FY23 internal accounting management system activities														
	□Agenda item 1: Approval of FY23 financial statements, including balance sheet, income statement, and the statement of appropriation of retained earnings, etc.														
□ Agenda item 2: Election of Je-yoon Shin as Independent Director															
□ Agenda item 3: Election of Hye-kyung Cho as Independent Director for Audit Committee Member															
□ Agenda item 4: Election of Myung-hee Yoo as Audit Committee Member															
□ Agenda item 5: Approval of															

	Director Remuneration Limit (FY2024) □ Agenda item 6: Approval of Amendments to the Articles of Incorporation 3. Donation to Chung-nam Samsung Institute 4. Approval of 2024 social contribution matching fund 5. Establishment of plans on health and safety for 2024	Approved	For	For	For	For	For	For	For	For	For	For	For	For	
Mar 20	1. Appointment of Board committee members 2. Setting remuneration of Directors 3. Lease agreement for Samsung Electronics Seocho building	Approved Approved Approved	For For For	For For For	For For For	For For For	For For For	For For For	N/A (resigned)	For For For	For For For	For For For	For For For	For For For	For For For
Apr 30	1. Approval of 1Q24 interim business report and quarterly dividend 2. Collection of fees for the use of CI mark from Samsung Biologics and Samsung Bioepis	Approved Approved	For For	For For	For For	For For	For For	For For	N/A (resigned)	For For	For For	For For	For For	For For	For For

※ Independent Director Jun-sung Kim at the first Board meeting of 2024 voted against the 2024–2026 shareholder return policy, stating that focusing on fixed dividends could reduce flexibility.

※ Independent Director Je-yoon Shin started participating in meetings from the 4th meeting, which was held on April 30, 2024, as his term began on March 29, 2024.

## C. Committees

### (1) Composition of Board Committees

[As of June 30, 2024]

Committee	Composition	Members	Responsibilities and authorities	Note
Management	4 Executive Directors	Jong-hee Han (head), Tae-moon Roh, Hark-kyu Park, Jung-bae Lee	See below	Appointment of Executive Director Jong-hee Han as the Head (April 27, 2023)
Related Party Transactions	3 Independent Directors	Eun-nyeong Heo (head), Han-jo Kim, Myung-hee Yoo		Appointment of Independent Director Eun-nyeong Heo as the Head (April 26, 2024)
Compensation	3 Independent Directors	Han-jo Kim, Jun-sung Kim, Je-yoon Shin		-
Sustainability	6 Independent Directors	Han-jo Kim (head), Jun-sung Kim, Eun-nyeong Heo, Myung-hee Yoo, Je-yoon Shin, Hye-kyung Cho		Appointment of Independent Director Han-jo Kim as the Head (April 28, 2022)

The Audit Committee and Independent Director Recommendation Committee was excluded according to Corporate Disclosure Guidelines.

For each committee under the Board of Directors, including the Management Committee, the head is appointed by the committee members. The Head of the Compensation Committee is scheduled to be appointed at the next Committee meeting.

#### (The Management Committee)

Responsibilities: The Management Committee deliberates and decides on matters specified by Board regulations and resolutions or specifically delegated by the Board. The composition and operation of the management committee are determined by the Board.

- Authorities:

(A) General management

1. Annual or mid to long-term management policy and strategy
2. Key management strategy
3. Business planning and restructuring
4. Establishment, relocation, and withdrawal of overseas branch and corporation
5. Initiating cooperation such as strategic partnership with foreign companies
6. Acquisition or disposal of domestic and overseas subsidiaries (provided that the value of transaction exceeds 0.1% of total equity)
7. Other major management issues
8. Establishment, relocation, and withdrawal of branches and operations
9. Appointment or dismissal of supervisors
10. Suspension or shutdown of production over 5% of the total production in the recent year
11. Licensing agreements and technology transfer, partnership in regards to technology of over 0.5% of the total equity
12. Acquisitions and transfers of patents related to new material and new technology of over 0.5% of the total equity
13. Collection and destruction of products corresponding to over 5% of the total sales in the recent business year
14. Contracting for over 5% of the total sales in the recent business year
15. Contracting or canceling of single sales agency and suppliers over 5% of the total sales in the recent business year
16. Establishment of basic principles of organization management
17. Decision making on basic principles and any changes related to wages, bonus, and fringe benefits
18. Appointments, dismissals and changes of transfer agent
19. Closing of shareholder register and setting reference date
20. Establishment of corporate guidelines for business and management related activities

(B) Matters related to Finance

1. Acquisitions or disposals of equity investments with a value no less than 0.1% and less than 2.5% of the total equity
2. Direct overseas investments with a value no less than 0.1% and less than 2.5% of the total equity
3. New debt guarantee (excluding extension of period) or collateral issuance with a value no less than 0.1% and less than 2.5% of the total equity
  - A. Collateral: Only in the case of providing collateral for others
  - B. Guarantee: Excludes performance guarantee (e.g., bid, contract, defect, difference guarantee) and tax payment guarantee
4. New credit agreement contract (excluding extension of period) with a value no less than 0.1% and less than 5% of the total equity
5. Approval of related party transactions:

Related party transactions with affiliates involving cash (loans and payments), equity (stocks and bonds) or assets (such as real estate and intangible property rights) with a value no less than KRW 3 billion as defined in the Monopoly Regulation and Fair Trade Act

※ Excluding cases where existing contracts are renewed without significant change.
6. Issuance of corporate bonds
7. Acquisition and disposal of real estate with a value of over 0.1% of the total equity, provided that the transaction is with a third party
8. Any matters that the CEO deems necessary and important for the business (e.g., capex)

(C) All other matters except for those delegated to the Board and other committees in accordance with Board regulations

**(Related Party Transactions Committee)**

- Responsibilities: Improve management transparency through the establishment of a voluntary compliance system

- Authorities:

1. Right to receive reports on related party transactions:

The Committee can request reports on related party transactions with affiliates

※ According to the Monopoly Regulation and Fair Trade Act, the Related Party Transactions committee

is permitted to conduct preliminary reviews and approves on related party transactions and other transactions that are deemed as significant

2. Right to order ex officio investigation of related party transactions
3. Right to propose corrective measures for related party transactions

**(Compensation Committee)**

- Responsibilities: Provide transparent and objective decision making process related to remuneration of directors

- Authorities:

1. Propose remuneration limit of directors at AGM
2. Establish the director remuneration system
3. Other matters delegated by the Board

**(Sustainability Committee)**

- Responsibilities: Promote sustainability management in ESG areas and enhance shareholder value

- Authorities:

1. Matters related to corporate sustainability management
  - Key strategies and policies on sustainability management
  - Report on key activities for sustainability management including environment, society, and governance
  - Plans for publishing the Company's Sustainability Report
2. Matters related to shareholder value enhancement
  - Preliminary review on shareholder return policies
  - Report on key issues related to shareholder rights and interests
3. Other matters that may significantly impact sustainability management and shareholder value that are deemed necessary for the Committee to discuss
4. Establishment, composition, operation of organizations under the committee including research groups, councils, etc.
5. Other matters delegated by the Board

## (2) Committee Activities

### □ The Management Committee (2024)

Date	Agenda	Voting results	Director (attendance)				
			Jong-hee Han (100%)	Kye-hyun Kyung (75%)	Tae-moon Roh (67%)	Hark-kyu Park (100%)	Jung-bae Lee (100%)
Feb 6	1. Lease agreement	Approved	For	For	For	For	For
Mar 7	1. Investment in memory business	Approved	For	For	For	For	For
	2. Investment in foundry business at Pyeongtaek facility	Approved	For	For	For	For	For
	3. Investment in foundry business at the Hwasung facility	Approved	For	For	For	For	For
Mar 19	1. Investment in GPU business	Approved	For	For	For	For	For
Apr 12	1. Investment in Memory business	Approved	For	Absent	For	For	For
	2. Lease agreement with Samsung SDI	Approved	For	Absent	For	For	For
	3. Purchase of product liability insurance	Approved	For	Absent	For	For	For
	4. Agreement on trademark use	Approved	For	Absent	For	For	For
	5. Lease agreement for Samsung Electronics Seocho building	Approved	For	Absent	For	For	For
May 30	1. Investment in memory business	Approved	For	N/A (resigned)	For	For	For
	2. Pyeongtaek fab (memory)	Approved	For		For	For	For
	3. Foundation work for the new FAB at Pyeongtake memory facility	Approved	For		For	For	For
	4. Investment in AVP	Approved	For		For	For	For
	5. Establishment of overseas subsidiary	Approved	For		For	For	For
Jun 26	1. Liquidation of an overseas subsidiary	Approved	For		For	For	For

### □ The Related Party Transactions Committee (2024)

Date	Agenda	Voting results	Directors (attendance)				
			Sun-uk Kim (100%)	Han-jo Kim (100%)	Jeong Kim (100%)	Eun-nyeong Heo (100%)	Myung-hee Yoo (100%)
Jan 29	1. Prior review on large-scale related party transactions	-	-	-	-		
	① Collection of fees for the use of CI mark from Samsung Medison	-	-	-	-	N/A (newly appointed)	N/A (newly appointed)
Mar 18	2. Report on 4Q23 related party transactions	-	-	-	-		
	1. Prior review on large-scale related party transactions	-	-	-	-		
Apr 26	① Lease agreement for Samsung Electronics Seocho building	-	-	-	-		
	1. Appointment of the Head of the Related Party Transactions Committee	Approved		For		For	For
	2. Prior review on large-scale related party transactions	-	N/A (resigned)	-	N/A (term expired)	-	-
	① Agreement for the use of CI mark with Samsung Biologics and Samsung Bioepis	-		-		-	-
	3. Report on 1Q23 related party transactions	-		-		-	-

### □ The Compensation Committee (2024)

Date	Agenda	Voting results	Directors (attendance)			
			Jeong Kim (100%)	Han-jo Kim (100%)	Jun-sung Kim (100%)	Je-yoon Shin (100%)
Feb 19	1. Review on 2024 fixed annual salary for each Executive Director	Approved	For	For	For	N/A
	2. Review on 2024 remuneration limit for Directors	Approved	For	For	For	N/A (newly appointed)



## □ The Sustainability Committee (2024)

Date	Agenda	Voting results	Directors (attendance)							
			Han-jo Kim (100%)	Sun-uk Kim (100%)	Jeong Kim (100%)	Jun-sung Kim (100%)	Eun-nyeong Heo (100%)	Myung-hee Yoo (100%)	Je-yoon Shin (100%)	Hye-kyung Cho (100%)
Jan 29	① Measures to elevate ESG stakeholder engagement	-	-	-	-	-	-	-	-	-
	② Plans to release Sustainability Report 2024	-	-	-	-	-	-	-	-	-
	③ Report on updates of IR activities	-	-	-	-	-	-	-	-	-
	④ Preliminary review on 2024–2026 shareholder return policy	Approved	For	For	For	Against	For	For	N/A (newly appointed)	N/A (newly appointed)
Apr 26	① Report on updates of IR	-	-	-	-	-	-	-	-	-
	② Results of 2024 Materiality Assessment	-	-	-	-	-	-	-	-	-
	③ Results of EU stakeholder engagement	-	-	N/A (resigned)	N/A (term expired)	-	-	-	-	-
	④ Plans to expand Stellar Forest, Samsung Electronics' standard workplace for people with disabilities in the form of a subsidiary	-	-	-	-	-	-	-	-	-

## D. Director independence

### (1) Appointment of Directors

The Board nominates Executive Director candidates and the Independent Director Recommendation Committee nominates Independent Director candidates. Directors are then appointed at the general meeting.

A candidate for Director must meet the requirements of relevant laws and the Articles of Incorporation. Executive Directors are recommended at a Board meeting based on their expertise and leadership from among a list of candidates that is continually updated. Independent Directors candidates are recommended by the Independent Director Recommendation Committee, and the Board reviews and finalizes the choices as agenda items at an AGM. Independent Directors should have no material interests with the Company and its major shareholder; possess knowledge and experience in areas such as finance, law, IT (robotics, AI), ESG, investment, environment, energy, international trade, and risk management; and be able to fulfill the roles and responsibilities of supervising management from an independent perspective.

Please refer to 『VIII. Executives and Employees』 for more information about the career of each Director.

The Board submits shareholders' proposal for appointment of Directors at the general shareholder meeting as a separate agenda if the proposal satisfies related laws and regulations.

The composition of the Board of Directors, as appointed by shareholders, is as follows:

[As of June 30, 2024]

Position	Name	Term (No. of reappointments)	Reasons for appointment	Nominator	Responsibility	Transaction with the Company	Relationship with the Company's major shareholders
Executive Director (CEO)	Jong-hee Han	Mar 2020 – Mar 2026 (1)	Director Jong-hee Han is an expert in display R&D and played a leading role in continuously achieving the top position in the global TV market. As the Head of the DX Division, he will contribute to further solidifying leadership amid intensifying competition by using his outstanding business capabilities.	The Board	Overall management of the DX Division	N/A	Related party
Executive Director	Tae-moon Roh	Mar 2022– Mar 2025 (N/A)	Director Tae-moon Roh has served in various core positions in the MX Business, and in 2021, delivered record results—the highest since 2014—achieving KRW 104 trillion in revenue through products such as S21 and foldables. He is expected to contribute significantly to enhancing corporate fundamentals, such as improving profitability and solidifying business fundamentals.	The Board	Overall management of the MX Business	N/A	Related party
Executive Director	Hark-kyu Park	Mar 2022– Mar 2025 (N/A)	Director Hark-kyu Park has held numerous key positions in core businesses and proved his risk management capabilities. Furthermore, he has successfully led business innovations with a broad perspective. As the Head of Corporate Management Office of the DX Division, his responsibilities include overall corporate support, management analysis, and even risk management to deliver business achievements, and he contributes significantly to coordinating management issues across the entire Company.	The Board	Overall management	N/A	Related party
Executive Director	Jung-bae Lee	Mar 2022– Mar 2025 (N/A)	Director Jung-bae Lee is an expert who has the experience of serving in key positions, including development, quality, and strategy. He oversaw the Company achievement of being the top firm in terms of DRAM revenue for a 30th consecutive year by securing product competitiveness, and he spearheaded the efforts to regain the title of No.1 global semiconductor revenue in 2021, demonstrating his extensive experience and outstanding capabilities in DS Division businesses.	The Board	Overall management of the Memory Business	N/A	Related party
Independent Director	Han-jo Kim	Mar 2019– Mar 2025 (1)	Director Han-jo Kim has built expertise in finance and business management through his experience as a President of Korea Exchange Bank and now serves as the chairman of a social contribution foundation. He will contribute to the Company by providing valuable insight on overall business issues and by utilizing expertise in finance, co-growth, etc.	Independent Director Recommendation Committee	Overall management	N/A	N/A
Independent Director	Jun-sung Kim	Mar 2022– Mar 2025 (N/A)	Director Jun-sung Kim is an expert in the global economy and investment who has experience analyzing and investing in stock markets in advanced economies. He will effectively represent foreign markets and investors and contribute significantly to establishing investment strategies in line with current trends via global networking.	Independent Director Recommendation Committee	Overall management	N/A	N/A
Independent Director	Eun-nyeong Heo	Nov 2022– Nov 2025 (N/A)	Director Eun-nyeong Heo is an expert in energy, resources, and the environment and, in particular, how they relate to economy and policy. As a renowned international scholar, he will contribute to strengthening the Company's management in the relevant fields and provide practical advice to the Board.	Independent Director Recommendation Committee	Overall management	N/A	N/A

Position	Name	Term (no. of reappointments)	Reasons for appointment	Nominator	Responsibility	Transaction with the Company	Relationship with the Company's majorshareholders
Independent Director	Myung-hee Yoo	Nov 2022– Nov 2025 (N/A)	Director Myung-hee Yoo is an expert in international trade who served as Trade Minister. By leveraging her diplomatic communication skills and global human network, she will effectively manage and maintain close communication with major investors and stakeholders.	Independent Director Recommendation Committee	Overall management	N/A	N/A
Independent Director	Je-yoon Shin	Mar 2024– Mar 2027 (N/A)	Director Je-yoon Shin is an expert in finance who served as the Chairman of the Financial Services Commission. Samsung believes Director Shin will contribute in multiple areas, including the Company's financial management and global strategies based on his expertise.	Independent Director Recommendation Committee	Overall management	N/A	N/A
Independent Director	Hye-kyung Cho	Mar 2024– Mar 2027– (N/A)	Director Hye-kyung Cho is an expert in robotics and related software who served as the 19th President of the Korea Robotics Society and has spearheaded promotion of robotics-related education in Korea. Samsung believes Director Cho will support the Company by providing relevant advice on the related businesses.	Independent Director Recommendation Committee	Overall management	N/A	N/A

Relationship with Company's major shareholders is in accordance with Article 542-8 of the Commercial Act.

## (2) Independent Director Recommendation Committee

The Independent Director Recommendation Committee assesses the independence and ability of potential candidates and recommends selected candidates to be appointed at the AGM. As of the reporting date (June 30, 2024), The Committee currently consists of 3 Independent Directors (Eun-nyeong Heo, and Myung-hee Yoo, Je-yoon Shin), meeting the requirement of having Independent Directors comprise the majority of Committee members, as stipulated in Article 542-8, Paragraph 4 of the Commercial Act.

The Independent Director Recommendation Committee conducts a thorough evaluation for the candidates (including those recommended by Independent Directors and external organizations) of factors including Board composition, the professional background of the outgoing Independent Director, and committee engagements within the Board. Based on this assessment, the committee selects the ultimate candidate to be recommended as a member of the Independent Director.

Date	Agenda	Voting results	Directors (attendance)			
			Sun-uk Kim (100%)	Eun-nyeong Heo(100%)	Myung-hee Yoo(100%)	Je-yoon Shin (-)
Jan 29	① Appointment of the Head of the Independent Director Recommendation Committee	Approved	For	For	For	N/A (newly appointed)
	② Deciding on the date for recommending Independent Directors	Approved	For	For	For	
Feb 19	① Recommending a candidate as an Independent Director for Audit Committee	Approved	For	For	For	
	② Recommending candidates for Independent Directors	Approved	For	For	For	

### (3) Expertise of Independent Directors

#### 1) Support team for Independent

Directors [As of June 30, 2024]

Team	Number of employees	Position (total years served/ years in support team)	Key activities
Board of Directors Office	4	Corporate EVP: 1 person (19 years and 5 months / 1 year 7 month) Principal Professional: 2 person (17 years and 7 months / 2 year and 8 months) Professional: 1 person (7 years and 5 months / 1 year and 4 months)	<ul style="list-style-type: none"> <li>Support operation of annual shareholders' meeting, Board meetings, and Committee meetings</li> <li>Support education for Independent Directors and their activities</li> <li>Establish database on Director candidates</li> <li>Provide information regarding the agenda to each Director</li> <li>Administrative work for meetings</li> <li>Record meeting agendas for the Board and committee meetings</li> </ul>

#### 2) Education programs to provide updates on key management issues for Independent Directors

##### ① Inspection of domestic and overseas business sites

Date	Organizer	Participants	Reasons for absence	Education contents
Apr 28, 2022	MX Business	Han-jo Kim Sun-uk Kim Byung-gook Park Jeong Kim Jun-sung Kim	N/A	On-site visit to check the current management status of businesses
Jul 28, 2022	Memory Business	Han-jo Kim Sun-uk Kim Jeong Kim Jun-sung Kim	N/A	On-site visit to check the current management status of businesses
Aug, 2022	SEUK, SRUK, SEF, SENA, SEH	Han-jo Kim Sun-uk Kim Jeong Kim	COVID-19 (Jun-sung Kim)	Report on current management status and inquiries on key issues Visits to TV production lines and business sites, etc.
Nov 30, 2022	Foundry Business	Han-jo Kim Sun-uk Kim Jeong Kim, Jun-sung Kim Eun-nyeong Heo Myung-hee Yoo	N/A	On-site visit to check the current management status of businesses
Jan 31, 2023	Design Management Center	Han-jo Kim Sun-uk Kim Jeong Kim Jun-sung Kim Eun-nyeong Heo Myung-hee Yoo	N/A	On-site visit to check the current status of business organizations
Apr 27, 2023	Digital Appliances Business Unit	Han-jo Kim Sun-uk Kim Jeong Kim Eun-nyeong Heo Myung-hee Yoo	Concurrent Business (Jun-sung Kim)	On-site visit(Gwangju) to check the current management status of businesses
Jul 27, 2023	S.LSI Business	Han-jo Kim Sun-uk Kim Jeong Kim Jun-sung Kim Eun-nyeong Heo Myung-hee Yoo	N/A	Report on current management status of businesses and medium- to-long term business strategies, etc.

Aug, 2023	SEDA, SECH, SELA, SEM	Han-jo Kim Sun-uk Kim Jeong Kim Eun-nyeong Heo Myung-hee Yoo	Concurrent Business (Jun-sung Kim)	Report on current management status, inquiries on key issues, and assessments of internal control activities Visits to production lines and marketing sites, and meetings with employees
Oct 31, 2023	VD Business	Han-jo Kim Sun-uk Kim Jeong Kim Eun-nyeong Heo Myung-hee Yoo	Concurrent Business (Jun-sung Kim)	Report on current management status of businesses and business strategies, etc.
Jan 31, 2024	MX Business	Han-jo Kim Sun-uk Kim Jeong Kim Jun-sung Kim Eun-nyeong Heo Myung-hee Yoo	N/A	Status on future preparedness for Business Units, presentation on our strategic products, etc.
Apr 30, 2024	Memory Business	Han-jo Kim Jun-sung Kim Eun-nyeong Heo Myung-hee Yoo Je-yoon Shin Hye-kyung Cho	N/A	Management status of Business Units and on-site visit to pyeongtaek site
May, 2024	Human Resources Development Center	Han-jo Kim Eun-nyeong Heo Myung-hee Yoo Je-yoon Shin Hye-kyung Cho	Concurrent Business (Jun-sung Kim)	Visits to Daegu Samsung Creative Campus and Samsung Yeongdeok Training Center

We provide educational materials to Independent Directors if their current occupation makes it difficult for them to participate in on-site programs prepared by the Company such as visits to Business Units or subsidiaries and training sessions.

## ② Orientation for newly appointed Independent Directors

Date	Organizer	Participants	Reasons for absence	Education contents
Apr 27, 2022	Corporate Management Office	Jun-sung Kim	N/A	Key issues regarding Board activities and management
Nov 28, 2022	Corporate Management Office	Eun-nyeong Heo Myung-hee Yoo	N/A	Key issues regarding Board activities and management
Mar 20, 2024	Corporate Management Office	Je-yoon Shin Hye-kyung Cho	N/A	Key issues regarding Board activities and management
Apr 26, 2024	Human Resources Development Center	Je-yoon Shin Hye-kyung Cho	N/A	History of Samsung and management philosophy

New Independent Directors are subject to the orientation.

### ③ Orientation for Independent Directors

Date	Organizer	Participants	Reasons for absence	Education contents
Mar 15, 2023	Samsung Human Resources Development Center	Han-jo Kim Sun-uk Kim Jeong Kim Jun-sung Kim Eun-nyeong Heo Myung-hee Yoo	N/A	Key issues regarding management, including the company history and management philosophy
Apr 25, 2023	Global Marketing Division Global EHS Center	Han-jo Kim Sun-uk Kim Jeong Kim Eun-nyeong Heo Myung-hee Yoo	Concurrent Business (Jun-sung Kim)	Understanding marketing activities Understanding EHS management status and environment management
Oct 27, 2023	CSR Software academy for youth Creative Development Center	Han-jo Kim Sun-uk Kim Jeong Kim Eun-nyeong Heo Myung-hee Yoo	Concurrent Business (Jun-sung Kim)	Understanding CSR activities including Samsung Stepping Stone of Hope Introduce SSAFY program Introduce C-Lab and its activities
May 23, 2024	Corporate Management Office	Han-jo Kim Jun-sung Kim Eun-nyeong Heo Myung-hee Yoo Je-yoon Shin Hye-kyung Cho	N/A	Conducting Workshop for Board of Directors and discussing current key issues

## 2. Audit System

### A. Profiles of Audit Committee members

As of June 30, 2024, SEC operates an Audit Committee consisting of three Independent Directors. Director Han-jo Kim qualifies as an expert in finance in accordance with relevant regulations.

Name	Major experience	Accounting/financial expertise <sup>1)</sup>	
		Classification	Relevant experience
Han-jo Kim	<ul style="list-style-type: none"> <li>• 2021–present: CEO/Rep Director, Hana Nanum Foundation</li> <li>• 2019–2021: CEO/Rep Director, Hana Foundation</li> <li>• 2015–2019: CEO/Rep Director, Hana Nanum Foundation</li> <li>• 2015–2016: Vice Chairman, Hana Financial Group</li> <li>• 2014–2015: President, Korea Exchange Bank</li> <li>• 2013–2014: President, KEB Capital Inc.</li> </ul>	Type 4 <sup>2)</sup>	<ul style="list-style-type: none"> <li>• 2015–2016: Vice Chairman, Hana Financial Group</li> <li>• 2014–2015: President, Korea Exchange Bank</li> <li>• 2013–2014: President, KEB Capital</li> <li>• 2012–2013: Head of Corporate Business Group, Korea Exchange Bank</li> <li>• 1999–2002, 2004–2005: Head of Branch, Korea Exchange Bank</li> </ul>
Myung-hee Yoo	<ul style="list-style-type: none"> <li>• 2022–present: Visiting Professor, Graduate School of International Studies, Seoul National University</li> <li>• 2021–2022: Ambassador for Economy and Trade, Ministry of Foreign Affairs (MOFA)</li> <li>• 2019–2021: Trade Minister, Ministry of Trade, Industry and Energy (MOTIE)</li> <li>• 2018–2019: Director General for FTA Policy, Office of</li> </ul>	–	–

	FTA Negotiations, MOTIE • 2017–2018: Director General, Bureau of Trade Policy, Office of FTA Negotiations, MOTIE • 2015–2017: Director General, FTA Negotiations & East Asia FTA Bureau, MOTIE • 2014–2015: Spokesperson for Foreign Media, Office of Public Relations, Office of the President		
Hye-kyung Cho	• 2023–present: Full member of National Academy of Engineering of Korea • 2022–2022: President of Korea Robotics Society • 2021–2022: Member of Mechanical Material Advisory Committee at Presidential Advisory Council on Science & Technology • 2020–2021: Vice President of Institute of Control, Robotics and Systems • 2014–2017: Director of the Korean Institute of Electrical Engineers • 2012–2015: Director of the Korea Institute for Robot Industry Advancement (Board Chair) • 1996–present: Professor in Applied AI at Hansung University	–	–

1) Defined in Public Disclosure Guideline and Article 37-2 of the Enforcement Decree of the Commercial Act

2) Experience at financial, government, securities-related organizations in charge of accounting or finance or in charge of supervision over accounting or finance for an aggregate of at least five years

## B. Audit Committee independence

Pursuant to related laws and the Articles of Incorporation, SEC has prepared internal audit regulations which encompass composition, operation, authority, and responsibility of the Audit Committees to carry out audit related activities.

Audit Committee members are approved at general meeting of shareholders following recommendations by the Board of Directors and the Independent Director Recommendation Committee. The Audit Committee is composed of financial expert Director Han-jo Kim as well as Directors Myung-hee Yoo and Hye-kyung Cho, who have audit committee experience at other listed companies. The Audit Committee members have no relationship with the Company, its largest shareholder, or major shareholders that could undermine the independence of the Audit Committee. In addition, the Audit Committee meets all requirements set forth by relevant laws, such as being headed by an Independent Director.

Requirements	Requirement status	Applicable acts, etc.
The audit committee shall consist of at least three directors.	Satisfied: the committee consists of three Directors	Article 415-2 (2) of the Commercial Act,
The ratio of independent directors shall exceed two thirds of the total number of members.	Satisfied: all members are independent directors	Article 2 of the Company's Audit Committee Regulation
At least one member of the committee shall be an accounting or financing expert.	Satisfied: Independent Director Han-jo Kim	Article 542-11 (2) of the Commercial Act,
The representative of the committee shall be an Independent Director.	Satisfied: Independent Director Han-jo Kim	Article 3 of the Company's Audit Committee Regulation
Other conditions (related party of the major shareholder, etc.)	Satisfied (n/a)	Article 542-11 (3) of the Commercial Act



[As of June 30, 2024]

Name	Term (No. of reappointments)	Reasons for appointment	Nominator	Relationship with the Company	Relationship with the Company's major shareholders	Concurrent positions
Han-jo Kim	Mar 2019– Mar 2025 (1)	As an expert in finance with broad experience and expertise, he will offer impartial judgement on overall management activities while carrying out his duties.	Board of Directors	N/A	N/A	-
Myung-hee Yoo	Mar 2024– Nov 2025 (newly appointed)	Director Myung-hee Yoo is an expert in international trade who has dedicated 30 years to public service in this area. Samsung believes she will fulfill her roles and responsibilities as an Audit Committee member with independent and objective perspectives.	Board of Directors	N/A	N/A	-
Hye-kyung Cho	Mar 2024– Mar 2027 (newly appointed)	As an expert in engineering, Director Hye-kyung Cho has received high recognition both domestically and internationally. Based on her expertise, she will strictly and fairly fulfill her roles and responsibilities as a member of the Audit Committee.	Independent Director Recommendation Committee	N/A	N/A	-

Relationship with the Company and Company's major shareholders is in accordance with Article 542-8 of the Commercial Act.

The Audit Committee reviews accounting documents including financial statements and audit process related documents presented by the external auditor, and if needed, requests the external auditor to perform additional reviews on accounting books and records. To ensure the reliability of accounting related disclosures, the audit committee receives and reviews a report on internal accounting control systems prepared by internal accounting managers. In addition, the Committee attends the Board meetings and other significant meetings. The Committee receives reports on deliberations of the Management Committee and on business performance from Directors and requests additional reviews and supplementation of data as needed.

### C. Major activities of the Audit Committee (2024)

Date	Agenda	Voting results	Directors (attendance)				
			Han-jo Kim (100%)	Sun-uk Kim (100%)	Jeong Kim (100%)	Myung-hee Yoo (100%)	Hye-kyung Cho (100%)
Jan 29	1. Report on 2023 internal accounting management system activities	-	-	-	-	N/A (newly appointed)	N/A (newly appointed)
	2. Report on evaluation of 2023 internal accounting management system activities	-	-	-			
	3. Communication between external auditor and audit committee	-	-	-			
	4. Report on 2023 financial statement and business report	-	-	-			
	5. Report on 4Q23 non-audit activities	-	-	-			
	6. Report on 4Q23 external contributions	-	-	-			
	7. Report on 2023 audit activities	-	-	-			
Feb 19	1. Review of the 55th AGM agenda	-	-	-	-		
	2. Report on activities of internal compliance system in 2023	-	-	-	-		
Apr 26	1. Communication between external auditor and audit committee	-	-	N/A (resigned)	N/A (term expired)	-	-
	2. Report on 2023 audit activities	-	-	-	-	-	-
	3. Report on 1Q24 interim business report	-	-	-	-	-	-
	4. Report on 1Q24 non-audit activities	-	-	-	-	-	-



5. Reviewing and confirming terms/conditions of the audit with external auditor	Approved	For			For	For
6. Report on plans for reviewing 2024 internal accounting management system activities	-	-			-	-
7. Report on 1Q24 external contributions	-	-			-	-
8. Report on plans for evaluating 2024 internal accounting management system activities	-	-			-	-

※ The external auditor reported that it did not perform non-audit services subject to approval by the Audit Committee, which was confirmed by the Audit Committee. Audit Committee made final confirmation through internal discussion that non-audit services subject to the Committee's approval had not been performed.

#### D. Education programs for the Audit Committee

In accordance with the working guide for internal accounting management system, we are conducting additional training to ensure the expertise of the Audit Committee. Organized by external experts, finance team, and audit team, education on changes to internal control, internal accounting management system is provided more than once a year.

#### E. Previous education sessions

Date	Organizer	Participants	Reasons for absence	Education contents
May 25, 2022	Corporate Finance & Accounting Team, External experts	Jeong Kim	N/A	Purpose of internal accounting control system and roles of Audit Committee
Jul 26, 2022	Corporate Finance & Accounting Team, External experts	Han-jo Kim Sun-uk Kim Jeong Kim	N/A	Best practices from abroad in organizational operations of internal accounting control system
Oct 27, 2023	Corporate Finance & Accounting Team, External experts	Han-jo Kim Sun-uk Kim Jeong Kim	N/A	Measures for advancement of internal accounting control system using generative AI, etc.
Apr 23, 2024	External experts, Audit team Internal accounting assessment support group	Myung-hee Yoo Hye-kyung Cho	N/A	Basic overview of the Audit Committee and roles/responsibilities of Committee members
May 21, 2024	External experts	Hye-kyung Cho	N/A	Corporate governance the Audit Committee's system, operation, and action plans.

## F. Support team for the Audit Committee

[As of June 30, 2024]

Team	Composition	Service years on team	Major tasks
Audit team	1 Executive Vice President, 1 Principal Professional, 1 Senior Professionals	Executive Vice President: 6 month Principal professional: 6 years and 6 month Senior Professional: 2 year and 6 months	Support the Audit Committee
Internal accounting assessment support group	1 Vice President, 1 Lawyer, 1 Principle Professional, 1 Senior Professional	Executive Vice President: 5 years and 6 months Lawyer: 3 years and 3 months Principle Professional: 1 year and 1 month Senior Professional: 1 year and 1 month	Support assessment of the internal accounting management system

Service years are based on the period in charge of the assigned duty.

## G. Compliance Officer

[As of June 30, 2024]

1. Personal information and major career	<b>Name</b>	Jung-ho Park
	<b>Date of birth</b>	September 1971
	<b>Sex</b>	Male
	<b>Current position</b>	Corporate Compliance Team leader at Samsung Electronics (December 2022–present)
	<b>Career</b>	Dec 2022: Head of Compliance Team, SEC (Executive Vice President) Jan 2020: Compliance Team, SEC (Vice President) Mar 2018: Legal & Compliance Team, DS Division, SEC (Vice President) Dec 2014: Corporate Legal Team, Corporate Legal Office, SEC (Vice President) May 2004: HR Team, Corporate Management Office, SEC (lawyer)
	<b>Academic background</b>	Bachelor's Degree in Law (Seoul National University) Master's Degree in Human Resources & Labor Relations (Michigan State University)
<b>2. Date of Board resolution</b>		December 20, 2022
<b>3. Disqualifications</b>		N/A
<b>4. Others</b>		N/A

Compliance officer meets the eligibility requirement (lawyer) stated in Article 542-13 (5) of the Commercial Act.

## H. Major compliance activities

The Company conducts compliance assessments on a regular and ad-hoc basis and reflects the results in the Company's business activities to improve compliance of the Company and its employees.

Date	Assessment subject	Assessment area	Results
Mar 2024	Compliance of patent application process	Technology misuse, trade secrets, etc.	Overall result was satisfactory. Internal policies were followed in areas where there was room for improvement.
	Compliance of domestic and overseas third-party production customers	Technology leak, product liability, etc.	
Apr 2024	Compliance of online sales sites	Consumer protection, dark patterns	
May 2024	Compliance of domestic organizations involved with trade	Fair transaction, trade secrets, etc.	
Jun 2024	Voluntary compliance of overseas subsidiaries	Status of compliance program	
	Compliance of domestic organizations involved with development	Trade secrets	
	Compliance of overseas sales subsidiaries	Fair transaction, trade secrets, etc.	
	Compliance of online sales sites	Consumer protection, greenwashing	
	Compliance of domestic and overseas third-party production customers	Technology leak, product liability, etc.	

Assessment conducted in the final month of each quarter.  
Each assessment was conducted on selected organizations.

## I. Support team for the Compliance Officer

[As of June 30, 2024]

Team	Composition	Service years (average)	Major tasks
Compliance team, etc.	Vice Presidents (2) Principal Professionals/Engineers (21) Lawyers (11) Senior Professionals (27) Professionals (4) Total: 65	Vice Presidents (7 years and 1 months) Principal Professionals (9 years) Lawyers (5 years and 9 months) Senior Professionals (5 years and 8 months) Professionals (1 year and 7 months)	Supports activities of the Compliance Officer

Service years are based on the period in charge of the assigned duty.

### 3. General meeting of shareholders

#### A. Voting method

As of June 30, 2024, the Company has not adopted cumulative voting or paper voting and has adopted electronic voting, which was used at the AGM on March 20, 2024.

On January 30, 2020, the Board resolved to adopt electronic voting to enhance convenience in exercising voting rights for shareholders in accordance with Article 368-4 (Exercise of Voting Rights by Electronic Means) of the Commercial Act. E-voting has been used at every AGM since it was introduced at the AGM on March 18, 2020.

The convocation notice of general meeting of shareholders includes the information that voting rights can be exercised electronically. Owners of shares as of the last day of every settlement term can exercise their voting rights via the electronic voting system of Korea Securities Depository ten days prior to general meeting date until the day before the meeting, without being present at the meeting.

[As of June 30, 2024]

Classification	Cumulative voting	Paper voting	Electronic voting
Adoption	Excluded	Not adopted	Adopted
Implementation	-	-	AGM (2023)

The Company as of the reporting date employs proxy voting and it contacts shareholders directly to recommend delegating voting rights, contacts shareholders by mail or email, and also made a power of attorney form available on the Company website.

#### B. Minority shareholder rights

No minority shareholder rights were exercised during the reporting period.

#### C. Competition over management rights

No competition over management rights occurred during the reporting period.

#### D. Voting shares

As of June 30, 2024, SEC has 5,969,782,550 issued shares of common stock, and 822,886,700 issued shares of preferred stock with no voting rights. There are 603,795,585 shares of common stock with limited voting rights under relevant laws. Thus, the total number of shares with full voting rights is 5,365,986,965.

[As of June 30, 2024]

Classification	Share type	Number of shares	Note
Number of issued shares (A)	Common	5,969,782,550	-
	Preferred	822,886,700	-
Shares with no voting rights (B)	Common	-	-
	Preferred	-	-
Shares with no voting rights according to Articles of Incorporation (C)	Common	-	-

	Preferred	822,886,700	-
Shares with limited voting rights under relevant laws (D)	Common	603,324,100	Restricted by the Monopoly Regulation and Fair Trade Act: 508,157,148 shares held by Samsung Life Insurance & 88,802,052 shares held by Samsung Fire & Marine Insurance 4,484,150 shares held by Samsung Welfare Foundation 1,880,750 shares held by Samsung Foundation of Culture
	Common	471,485	Restricted by the Insurance Business Act: Shares held by Samsung Life Insurance in certain special accounts
Shares with voting rights (E = A - B - C - D)	Common	5,365,986,965	-
	Preferred	-	-

Pursuant to Korea's Monopoly Regulation and Fair Trade Act, owners can exercise certain rights on some shares (603,324,100) in accordance with related laws, including the right to vote on agendas such as the appointment or dismissal of directors and revisions to the Articles of Incorporation.

## E. Results of shareholder meetings

[As of June 30, 2024]

Date	Agenda	Results
AGM (Mar 20, 2024)	1 Approval of audited financial statements for FY2023, including Statements of Financial Position, Statements of Profit or Loss, Statements of Appropriation of Retained Earnings 2 Election of Je-Yoon Shin as Independent Director 3 Election of Hye-Kyung Cho as Independent Director for Audit Committee Member 4 Election of Myung-Hee Yoo as Audit Committee Member 5 Approval of Director Remuneration Limit (FY2024) 6 Approval of Amendments to the Articles of Incorporation	Approved Approved Approved Approved Approved
AGM (Mar 15, 2023)	1 Approval of FY22 financial statements, including balance sheet, income statement, and the statement of appropriation of retained earnings, etc. 2 Appointment of Jong-hee Han as Executive Director 3 Approval of remuneration limit for Directors	Approved Approved Approved
EGM (Nov 3, 2022)	1 Appointment of Independent Directors 1-1 Appointment of Eun-nyeong Heo as an Independent Director 1-2 Appointment of Myung-hee Yoo as an Independent Director	Approved Approved
AGM (Mar 16, 2022)	1 Approval of FY21 financial statements, including balance sheet, income statement, and the statement of appropriation of retained earnings, etc. 2 Appointment of Directors 2-1. Appointment of Independent Directors 2-1-1 Appointment of Han-jo Kim as Independent Director 2-1-2 Appointment of Wha-jin Han as Independent Director 2-1-3: Appointment of Jun-sung Kim as Independent Director 2-2: Appointment of Executive Directors 2-2-1 Appointment of Kye-hyun Kyung as Executive Director 2-2-2 Appointment of Tae-moon Roh as Executive Director 2-2-3 Appointment of Hark-kyu Park as Executive Director 2-2-4: Appointment of Jung-bae Lee as Executive Director 2-3: Appointment of Audit Committee Member 2-3-1: Appointment of Han-jo Kim as Audit Committee Member 2-3-2: Appointment of Jeong Kim as Audit Committee Member 3. Approval of remuneration limit for Directors	Approved Approved Approved Approved Approved Approved Approved Approved Approved Approved Approved Approved Approved

## VII. Information on Shareholders

### 1. Ownership of shares by the major shareholder(s) and related parties

[As of June 30, 2024]

Name	Relationship <sup>1)</sup>	Type of share	Ownership				Notes
			Period start		Period end		
			Shares	Stake (%)	Shares	Stake (%)	
Samsung Life Insurance	Major shareholder	Common	508,157,148	8.51	508,157,148	8.51	-
		Preferred	43,950	0.01	43,950	0.01	-
Samsung Life Insurance (special accounts)	Major shareholder	Common	8,097,938	0.14	6,373,251	0.11	Open market transactions
		Preferred	417,085	0.06	413,124	0.05	Open market transactions
Samsung C&T	Affiliate	Common	298,818,100	5.01	298,818,100	5.01	-
Samsung Fire & Marine Insurance	Affiliate	Common	88,802,052	1.49	88,802,052	1.49	-
Samsung Welfare Foundation	Funded foundation	Common	4,484,150	0.08	4,484,150	0.08	-
Samsung Foundation Of Culture	Funded foundation	Common	1,880,750	0.03	1,880,750	0.03	-
Ra-hee Hong	Related party of the major shareholder	Common	117,302,806	1.96	97,978,700	1.64	Over-the-counter
		Preferred	206,633	0.03	206,633	0.03	-
Jae-yong Lee	Related party of the major shareholder	Common	97,414,196	1.63	97,414,196	1.63	-
		Preferred	137,757	0.02	137,757	0.02	-
Boo-jin Lee	Executive member of affiliate	Common	55,394,044	0.93	47,745,681	0.80	Over-the-counter
		Preferred	137,755	0.02	137,755	0.02	-
Seo-hyun Lee	Executive member of affiliate	Common	55,394,044	0.93	47,290,190	0.79	Over-the-counter
		Preferred	137,755	0.02	137,755	0.02	-
Jong-hee Han	Executive member of affiliate	Common	15,000	0.00	15,000	0.00	-
Kye-hyun Kyung	Executive member of affiliate	Common	21,050	0.00	0	0.00	Resigned
Tae-moon Roh	Executive member of affiliate	Common	13,000	0.00	18,000	0.00	Open market transactions
Hark-kyu Park	Executive member of affiliate	Common	22,500	0.00	28,000	0.00	Open market transactions

Name	Relationship <sup>1)</sup>	Type of share	Ownership				Notes
			Period start		Period end		
			Shares	Stake (%)	Shares	Stake (%)	
Jung-bae Lee	Executive member of affiliate	Common	15,000	0.00	18,800	0.00	Open market transactions
Han-jo Kim	Executive member of affiliate	Common	3,655	0.00	3,655	0.00	-
Hye-Kyung Cho	Executive member of affiliate	Common	0	0.00	500	0.00	Newly appointed
Total		Common	1,235,835,433	20.70	1,199,028,173	20.08	-
		Preferred	1,080,935	0.13	1,076,974	0.13	-

1) In accordance with Article 3 Paragraph 1 of Enforcement Decree of the Act on Corporate Governance of Financial Companies. Common shares carry full voting rights while preferred shares do not. (Owners of certain common shares have limited voting rights in accordance with relevant laws.)  
For changes after June 30, 2024, please refer to 'Ownership status of securities, etc. of executives and major shareholder' published in Korean in DART (<https://dart.fss.or.kr>).

## 2. Matters related to the major shareholder

### A. Overview of the major shareholder (corporation or organization)

(1) Basic information of the major shareholder (Samsung Life Insurance Co., Ltd.)

- 1) Legal, commercial name: Samsung Life Insurance Co., Ltd.
- 2) Date of establishment: April 24, 1957
- 3) Address, phone number, and English language website of the corporate headquarters
  - Address: 11, Seocho-daero 74-gil, Seocho-gu, Seoul, Republic of Korea
  - Phone: +82-2-1588-3114
  - Website: <https://www.samsunglife.com>

4) CEO and major shareholder of the major shareholder (Samsung Life Insurance)

Name	Number of investors	CEO		Major shareholder	
		Name	Share ratio (%)	Name	Share ratio (%)
Samsung Life Insurance Co., Ltd	71,822	Won-hak Hong	0.00	Samsung C&T	19.34

As of June 30, 2024, based on common shares.

5) Changes to the CEO and major shareholder of the major shareholder (Samsung Life Insurance)

Date of change	CEO		Major shareholder	
	Name	Share ratio (%)	Name	Share ratio (%)
Mar 21, 2024	Won-hak Hong	0.00	-	-

Mar 21, 2024: Young-muk Jeon resigned from his position as CEO, and Executive Director Won-hak Hong was appointed as CEO



(2) Financial status of the recent settlement term of the major shareholder (Samsung Life Insurance)

(KRW mil)

Classification	
Name of the corporation or organization	Samsung Life Insurance Co., Ltd
Total assets	319,799,739
Total liabilities	278,285,654
Total equity	41,514,085
Revenue	17,216,153
Operating profit	1,651,840
Net profit	1,452,130

The financial status is as of June 30, 2024, based on the consolidated K-IFRS financial statements.

(3) Business conditions of the major shareholder (Samsung Life Insurance)

Samsung Life Insurance is a company in which life insurance and its related reinsurance contract are the key purpose of business operations, and it operates businesses in accordance with the Insurance Business Act and other related laws.

Its key subsidiary, Samsung Card, is a specialized credit finance business company that operates specialized credit finance businesses (including credit card business, facility leasing business, and installment financing business) in accordance with the Specialized Credit Finance Business Act and other related laws.

☞ Please refer to the business report (interim and half-year) of Samsung Life Insurance published in DART (<https://dart.fss.or.kr>) for more details of the major shareholder.

## B. Certain transaction that may cause changes in the major shareholder

N/A

## C. Overview of the major shareholder of the major shareholder

(1) Basic information of the major shareholder (Samsung C&T) of the major shareholder (Samsung Life Insurance)

- 1) Legal, commercial name: Samsung C&T Corporation
- 2) Date of establishment and period of existence: Dongwha Real Estate was first established on December 23, 1963, and the company name was changed to Cheil Industries in July 2014. It merged with Samsung C&T Corporation (founded as Samsung Sanghoe on March 1, 1938, and established as Samsung C&T in January 1951) and changed the company name to Samsung C&T Corporation on September 2, 2015 (merger registration date).
- 3) Address, phone number, and English language website of the corporate headquarters
  - Address: 26, Sangil-ro 6-gil, Gangdong-gu, Seoul, Republic of Korea
  - Phone: +82-2-2145-5114
  - Website: <https://www.samsungcnt.com>
- 4) CEO and major shareholder of the major shareholder (Samsung C&T) of the major shareholder

Name	Number of investors	CEO		Major shareholder	
		Name	Share ratio (%)	Name	Share ratio (%)
Samsung C&T	116,852	Jae-eon Lee	0.00	Jae-yong Lee	19.06
		Se-chul Oh	0.00		
		Hai-lin Jeong	0.00		

As of June 30, 2024, based on common shares

5) Changes to the CEO and major shareholder of the major shareholder (Samsung C&T) of the major shareholder(Samsung Life Insurance)

Date of change	CEO		Major shareholder	
	Name	Share ratio (%)	Name	Share ratio (%)
Mar 17, 2023	Seung-hwan Han	-	-	-
Mar 17, 2023	Hai-lin Jeong	0.00	-	-
Apr 21, 2023	-	-	Jae-yong Lee	18.26
Mar 15, 2024	Jung-suk Koh	-	-	-
Mar 15, 2024	Jae-eon Lee	0.00	-	-
Apr 19, 2024	-	-	Jae-yong Lee	19.06

Mar 17, 2023: Seung-hwan Han resigned from his position as CEO, and Executive Director Hai-lin Jeong was appointed as CEO.

Apr 21, 2023: The share ratio of the major shareholder was changed (18.13%→18.26%) due to the cancellation of treasury shares (1,295,411 common shares).

May 15, 2024: Jung-suk Koh resigned from his position as CEO, and Jae-eon Lee was appointed as CEO.

※ Apr 19, 2024: The share ratio of the major shareholder changed (18.26%→19.06%) due to the cancellation of treasury shares (7,807,563 common shares).

(2) Financial status of the recent settlement term of the major shareholder (Samsung C&T) of the major shareholder (Samsung Life Insurance)

(KRW mil)

Classification	
Name of the corporation or organization	Samsung C&T
Total assets	68,291,225
Total liabilities	26,034,483
Total equity	42,256,742
Revenue	21,800,608
Operating profit	1,612,683
Net profit	1,556,175

The financial status is as of June 30, 2024, based on the consolidated K-IFRS financial statements.

(3) Business conditions of the major shareholder (Samsung C&T) of the major shareholder (Samsung Life Insurance)

Samsung C&T is consisted of Engineering & Construction, Trading & Investment, Fashion, and Resort Groups as well as biomedicine OEM and biosimilar businesses. The Engineering & Construction Group operates businesses in building, civil infrastructure, plant, and housing areas domestically and globally; Trading & Investment trades internationally in various fields, including resource development, steel, chemical, industrial materials, and textiles. The Fashion Group imports and sells clothing. The Resort Group manages landscaping business, Everland (dry park), Caribbean Bay (water park), golf course, food supply services, and food distribution business (Samsung Welstory).

☞ Please refer to the business report (interim and half-year) of Samsung C&T published in DART (<https://dart.fss.or.kr>) for more details of the major shareholder of the major shareholder.

### 3. Change of the major shareholder

N/A

### 4. Ownership of shares

#### A. Share ownership status

[As of June 30, 2024]

Classification	Name	Number of shares owned	Share ratio (%)	Note
Shareholders with over 5% voting shares <sup>1)</sup>	Samsung Life Insurance	514,530,399	8.62	Including special accounts
	National Pension Service	426,513,027	7.14	-
	BlackRock Fund Advisors	300,391,061	5.03	Based on January 28, 2019
	Samsung C&T	298,818,100	5.01	-
Employee Stock Ownership Association		-	-	-

Including shares with limited voting rights in accordance with relevant laws. For more information, please refer to 『VI. Corporate Governance-3. General meeting of shareholders-B. Voting shares』

Number of shares owned and share ratio of BlackRock Fund Advisors is based on the “Report on Mass Holding of Securities” disclosed on DART (<http://dart.fss.or.kr>) on February 7, 2019.

#### B. Minority shareholders

[As of June 30, 2024]

Classification	Shareholder			Shares owned <sup>1)</sup>			Note
	Number of shareholders	Total shareholders	Portion (%)	Number of shares	Total number of shares	Portion (%)	
Minority shareholder	4,247,611	4,247,701	99.99	4,039,288,913	5,969,782,550	67.66	-

Number of voting shares, including those with limited voting rights in accordance with relevant laws. Shareholders with shares less than 1/100 of total issued stocks

## 5. Stock price and stock transactions

### A. Domestic stock market

Type		Jan 2024	Feb 2024	Mar 2024	Apr 2024	May 2024	Jun 2024	
Common stock	Stock price (KRW)	High	79,600	75,200	82,400	85,300	81,300	81,600
		Low	71,000	72,800	72,200	75,500	73,500	75,200
		Average	74,455	73,684	75,760	80,595	77,780	78,832
	Volume (shares)	High (day)	57,691,266	21,966,745	50,106,297	37,077,944	43,825,202	33,763,804
		Low (day)	11,088,724	11,503,495	9,740,504	12,755,629	11,763,992	9,455,929
		Month	397,638,759	298,955,484	448,361,736	484,342,028	421,088,782	351,896,233
Preferred stock	Stock price (KRW)	High	63,000	63,800	68,000	69,900	66,900	64,700
		Low	58,300	59,700	61,800	63,500	60,300	61,100
		Average	60,264	62,168	64,200	66,833	64,000	63,089
	Volume (shares)	High (day)	1,682,843	3,190,357	3,638,838	2,831,703	3,418,709	2,242,841
		Low (day)	453,959	847,453	821,960	655,555	489,182	841,534
		Month	24,243,206	26,406,891	33,140,673	28,000,028	24,613,973	27,930,121

Stock price is based on the closing exchange rate of the applicable trading day.

## B. Overseas stock market

### □ Name of stock exchange: London Stock Exchange (common stock)

Type			Jan 2024	Feb 2024	Mar 2024	Apr 2024	May 2024	Jun 2024	
Common stock	Price per GDR	High	USD	1,498.00	1,431.00	1,488.00	1,592.00	1,507.00	1,492.00
			KRW	1,931,521	1,896,504	1,991,986	2,147,767	2,057,356	2,059,706
		Low	USD	1,308.00	1,360.00	1,354.00	1,384.00	1,339.00	1,359.00
			KRW	1,738,332	1,810,568	1,783,083	1,916,840	1,843,134	1,872,566
		Average	USD	1,401.27	1,381.38	1,411.70	1,471.29	1,431.00	1,435.35
			KRW	1,854,680	1,838,789	1,877,639	2,012,901	1,954,787	1,980,467
	Volume (shares)	High (day)		28,217	21,720	20,594	31,925	21,811	23,210
		Low (day)		5,106	5,730	6,292	7,472	6,069	6,852
		Month		245,477	242,993	209,457	284,567	245,426	262,272

Stock price in KRW is based on the closing exchange rate of the applicable trading day.

High and low price in KRW are based on the KRW/USD closing exchange rate of the applicable trading day; average price in KRW is based on monthly average KRW/USD exchange rate.

Conversion ratio between GDRs and original shares is 1:25.

### □ Name of stock exchange: Luxembourg Stock Exchange (preferred stock)

Type			Jan 2024	Feb 2024	Mar 2024	Apr 2024	May 2024	Jun 2024	
Preferred stock	Price per GDR	High	USD	1,180.00	1,186.00	1,256.00	1,294.00	1,228.00	1,168.00
			KRW	1,521,492	1,571,806	1,690,325	1,745,735	1,676,466	1,622,469
		Low	USD	1,072.00	1,112.00	1,162.00	1,148.00	1,088.00	1,102.00
			KRW	1,424,688	1,482,852	1,548,946	1,589,980	1,497,632	1,518,446
		Average	USD	1,130.45	1,162.00	1,200.70	1,216.19	1,174.29	1,142.20
			KRW	1,496,234	1,546,766	1,596,997	1,663,899	1,604,108	1,575,985
	Volume (shares)	High (day)		8,406	5,746	2,227	3,036	2,282	3,474
		Low (day)		273	426	164	358	150	200
		Month		29,600	31,929	18,916	21,216	20,850	22,724

Stock price in KRW is based on the closing exchange rate of the applicable trading day.

High and low price in KRW are based on the KRW/USD closing exchange rate of the applicable trading day; average price in KRW is based on monthly average KRW/USD exchange rate.

Conversion ratio between GDRs and original shares is 1:25.

## VIII. Executives and Employees

### 1. Executives and employees

#### A. Registered Executives

[As of June 30, 2024]

(Shares)

Name Gender Date of birth	Position	Registered Executive	Full-time/ part-time	Responsibility	Major career	Number of shares owned <sup>1)</sup>		Relationship with major shareholder <sup>2)</sup>	Length of service (months)	Term expiration
						Common	Preferred			
Jong-hee Han Male Mar 1962	Vice Chairman	Executive Director	Full	-CEO (head of DX)	-Bachelor's degree in Electronic Engineering from Inha University -Head of DX Division	15,000	-	Executive Member of an affiliate	52	Mar 17, 2028
Tae-moon Roh Male Sep 1968	President	Executive Director	Full	-Head of MX	-Doctor's degree in Electrical Engineering from Pohang University of Science and Technology -Head of MX Business	18,000	-	Executive Member of an affiliate	28	Mar 15, 2025
Hark-kyu Park Male Nov 1964	President	Executive Director	Full	-CFO	-Master's degree in Business and Technology Management from Korea Advanced Institute of Science and Technology -Head of Corporate Management Office	28,000	-	Executive Member of an affiliate	28	Mar 15, 2025
Jung-bae Lee Male Feb 1967	President	Executive Director	Full	-Head of Memory Business	-Doctor's degree in Electronic Engineering from Seoul National University -Head of Memory Business	18,800	-	Executive Member of an affiliate	28	Mar 15, 2025
Han-jo Kim Male Jul 1956	Director	Independent Director	Part	-Board Chair -Head of Audit Committee -Related Party Transactions Committee -Compensation Committee -Head of Sustainability Committee	-Bachelor's degree in French language and Literature from Yonsei University -Vice Chairman, Hana Financial Group	3,655	-	Executive Member of an affiliate	64	Mar 19, 2025
Jun-sung Kim Male Oct 1967	Director	Independent Director	Part	-Compensation Committee -Sustainability Committee	-Bachelor's degree in Economics & Business Administration from Carnegie Mellon University -Managing Director of Government of Singapore Investment Corporation (GIC) Total Return Group	-	-	Executive Member of an affiliate	28	Mar 15, 2025
Eun-nyeong Heo Male Aug 1964	Director	Independent Director	Part	-Head of Related Party Transactions Committee -Independent Director Recommendation Committee -Sustainability Committee	-Doctor's degree in Mineral Economics from The Pennsylvania State University -Professor of College of Engineering at Seoul National University	-	-	Executive Member of an affiliate	20	Nov 2, 2025
Myung-hee Yoo Female Jun 1967	Director	Independent Director	Part	-Audit Committee -Related Party Transactions Committee -Independent Director Recommendation Committee -Sustainability Committee	-Doctor's degree in Administrative Law from Vanderbilt University -Trade Minister, Ministry of Trade, Industry and Energy	-	-	Executive Member of an affiliate	20	Nov 2, 2025
Je-Yoon Shin Male Mar 1958	Director	Independent Director	Part	-Independent Director Recommendation Committee -Compensation Committee -Sustainability Committee	-Bachelor's Degree in Economics from Seoul National University -Chair of Financial Services Commission	-	-	Executive Member of an affiliate	4	Mar 28, 2027
Hye_Kyung Cho Female Jul 1964	Director	Independent Director	Part	-Audit Committee -Sustainability Committee	-Doctor's degree in Robotics from Seoul National University -Professor of Applied AI at Hansung University	500	-	Executive Member of an affiliate	4	Mar 19, 2027

- 1) As of the reporting date; for changes after the reporting date, please refer to 'Ownership status of securities, etc. of executives and major shareholder' published in Korean in DART (<https://dart.fss.or.kr>).
- 2) In accordance with Article 3 Paragraph 1 of the Enforcement Decree of the Act on Corporate Governance of Financial Companies.  
 Mar 20, 2024: Je-yoon Shin was newly appointed as Independent Director for Audit Committee member, and Myung-hee Yoo was appointed as member of the Audit Committee at the AGM. Independent Director Eun-nyeong Heo and Independent Director Myung-hee Yoo were appointed as members of the Related Party Transaction Committee; Independent Director Je-yoon Shin was appointed as member of the Independent Director Recommendation Committee, Compensation Committee, and Sustainability Committee; and Independent Director Hye-Kyung Cho was appointed as member of the Sustainability Committee at the Board meeting.  
 Mar 20, 2024: Independent Director Sun-uk Kim vacated his position.  
 Mar 22, 2024: Term expired for Independent Director Jeong Kim.  
 Apr 26, 2024: Independent Director Eun-nyeong Heo was appointed as the Head of the Related Party Transaction Committee.  
 May 21, 2024: Kye-hyun Kyung resigned from his position as Executive Director.

## B. Registered Executives with concurrent positions

[As of June 30, 2024]

Concurrent office holder		Company		
Name	Position	Name of company	Position	Period
Myung-hee Yoo	Independent Director	HD Hyundai Construction Equipment	Independent Director	2022-present
Hye-Kyung Cho	Independent Director	Hyundai E&C	Independent Director	2021-present

## C. Employees

[As of June 30, 2024]

(KRW mil)

Division	Gender	Number of employees <sup>1)</sup>				Average length of service (years)	Total compensation (KRW mil)	Average compensation per employee <sup>2)</sup> (KRW mil)	Non-affiliated <sup>3)</sup>		
		Regular	Contract-based	Others	Total				Male	Female	Total
DX	M	37,992	325	-	38,317	16.7	-	-			
	F	12,276	102	-	12,378	13.6	-	-			
DS	M	55,681	145	-	55,826	10.7	-	-			
	F	21,623	25	-	21,648	11.0	-	-			
Gender total	M	93,673	470	-	94,143	13.2	5,306,427	58			
	F	33,899	127	-	34,026	12.0	1,385,639	44			
Total		127,572	597	-	128,169	12.9	6,692,066	54			

Separate basis; represents employees of domestic headquarters in Korea, including employees on leave and excluding 10 registered executives (4 Executive Directors and 6 Independent Directors).

Total compensation for 1H24 and average compensation per employee were calculated before income tax and other deductions based on the earned income payment record submitted to the district tax office in accordance with Article 20 of the Income Tax Act.

Calculated based on average number of employees: 123,811 employees (male: 92,231, female: 31,580).

## D. Remuneration of non-registered Executives

[As of June 30, 2024]

(KRW mil)

Classification	Number of employees	Total compensation	Average compensation per employee	Note
Non-registered Executives	1,001	228,080	234	-

In office as of the reporting date, and non-registered executives whose earned income was not domestic were excluded.

Total compensation for 1H24 and average compensation per employee is calculated based on the earned income payment record (before earned income tax credit) submitted to the district tax office in accordance with Article 20 of the Income Tax Act.

Total compensation for 1H24 includes incentives, and timing of the incentives being paid differ every year. Average compensation per employee is calculated based on the average of the 975 employees.

## 2. Remuneration for Directors

### A. Summary on total remuneration

<Remuneration of directors and auditors>

(1) Remuneration approved at the annual general meetings of shareholders

(KRW mil)

	Number of persons <sup>1)</sup>	Amount approved at shareholders' meeting <sup>2)</sup>	Note
Registered Directors	5	-	-
Independent Directors	3	-	-
Audit Committee members or Auditor	3	-	-
Total	11	43,000	-

1) As of the day of AGM, as approved on the occasion

2) Remuneration limit for directors (including those retired) approved at the AGM on March 20, 2024, as per Article 388 of the Commercial Act and our Articles of Incorporation.

(2) Remuneration Paid

[Remuneration paid for directors and auditors]

(KRW mil)

Number of persons	Total amount of remuneration	Average remuneration per Director	Note
10	4,939	449	The average remuneration per Director is calculated based on 11 directors and auditors.

There are no recognized expenses (compensation expenses) in this term from granting stock options.

Based on the Income Tax Act that incumbent registered directors, independent directors, and members of audit committee in the fiscal year received in accordance with Article 159 of the Financial Investment Services and Capital Markets Act and Article 168 of the Enforcement Decree of the same Act. 1) Based on the number of persons as of the reporting date.

Earned income as per Income Tax Act (Article 20: Wage and Salary Income, Article 21: Other Income, Article 22: Retirement income).

Includes remuneration received as non-registered executives for Directors who were newly appointed or resigned during the fiscal year.

[Remuneration paid, by Director type]

(KRW mil)

	Number of persons <sup>1)</sup>	Total remuneration <sup>2)</sup>	Average remuneration per Director	Note
Registered Directors (excluding Independent Directors and Audit Committee members)	4	4,329	866	The average remuneration per Director is calculated based on 5 Directors.
Independent Directors (excluding Audit Committee members)	3	331	110	The average remuneration per Director is calculated based on 3 Directors and auditors.
Audit Committee members	3	279	93	The average remuneration per Director is calculated based on 3 directors and auditors.
Auditor	-	-	-	-

There are no recognized expenses (compensation expenses) in this term from granting stock options.

Based on the Income Tax Act that incumbent registered directors, independent directors, and members of audit committee in the fiscal year received in accordance with Article 159 of the Financial Investment Services and Capital Markets Act and Article 168 of the Enforcement Decree of the same Act.

1) As of the reporting date.

2) Earned income as per Income Tax Act (Article 20: Wage and Salary Income, Article 21: Other Income, Article 22: Retirement income)

Includes remuneration received as non-registered executives for Directors who were newly appointed or resigned during the fiscal year.

※ The average remuneration per Director is calculated based on 10 persons (4 registered Directors, 3 Independent Directors, 3 Audit Committee members).



## (2) Criteria and methodology

Remuneration of directors is paid in accordance with internal regulations for Executive treatment and Independent Director treatment within the remuneration limit approved at the AGM.

Type	Criteria and methodology
Registered Directors (excluding Independent Directors and Audit Committee members)	<ul style="list-style-type: none"> <li>• Salary: In accordance with internal regulations for executive treatment (Board resolution), remuneration is determined based on position, responsibilities, and performance results.</li> <li>• Traditional-holiday bonuses: 100% of monthly wage for each</li> <li>• Target achievement incentive: Paid on biannual basis within the range of 0–200% of monthly wage, and CEO decides the amount according to the level of target achieved. (Adjusted according to division performance.)</li> <li>• Performance incentive: Paid once a year within 0–50% of salary based on the compensation resources calculated according to financial factors such as profit after tax (<math>\pm</math> assessed considerations) and cost of capital for the fiscal year by business unit. (Adjusted according to individual performance.)</li> <li>• Long-term incentive: Calculated within the director remuneration limit, based on the average salary of 3 years, using ROE, stock performance, and EBIT margin as criteria. Paid over the course of 3 years.</li> <li>• Fringe benefits: Medical services, checkups, group accident insurance are provided in line with the internal regulations for executive treatment (Board resolution)</li> </ul>

Type	Criteria and methodology
Independent Directors (excluding Audit Committee members)	<ul style="list-style-type: none"> <li>• Salary: In accordance with internal regulations for independent director treatment, remuneration is determined based on responsibilities, etc.</li> <li>• Fringe benefits: Medical services, checkups, group accident insurance are provided in line with the internal regulations for independent director treatment</li> </ul>
Audit Committee members	<ul style="list-style-type: none"> <li>• Salary: In accordance with internal regulations for the treatment of Independent Directors, remuneration for Audit Committee members is determined individually and accounts for their roles, legal responsibilities and associated risks, travel distance, opportunity costs, etc.</li> <li>• Fringe benefits: Medical services, checkups, group accident insurance are provided in line with the internal regulations for independent director treatment</li> </ul>

<Remuneration for individual Directors and Auditors who are paid KRW 500 million or more >

### (1) Summary on Remuneration by Executive

(KRW mil)

Name	Position	Total remuneration	Remuneration not included in total amount
Jong-hee Han	CEO	1,128	-
Kye-hyun Kyung	President (former CEO)	730	-
Tae-moon Roh	Executive Director	1,097	-
Hark-kyu Park	Executive Director	773	-
Jung-bae Lee	Executive Director	601	-

Based on the Income Tax Act that incumbent or retired registered directors, independent directors, and members of audit committee in the fiscal year received in accordance with Article 159 of the Financial Investment Services and Capital Markets Act and Article 168 of the Enforcement Decree of the same Act. Earned income as per Income Tax Act (Article 20: Wage and Salary Income, Article 21: Other Income, Article 22: Retirement income). Includes remuneration that directors who were newly appointed or resigned during the fiscal year received as non-registered executives.

## (2) Criteria and methodology

(KRW mil)

Name	Type of remuneration		Total amount	Criteria and methodology
Jong-hee Han (CEO)	Earned Income	Salary	820	In accordance with internal regulations for executive treatment (Board resolution), remuneration is determined based on position (vice chairman), responsibilities, and performance results. He was paid KRW 121 million per month from January to February, KRW 181 million in March, and KRW 133 million per month from April to June.
		Bonus	302	- Traditional-holiday bonus: 100% of monthly wage - Performance incentive: Paid once a year within 0–50% of salary based on the compensation resources calculated according to financial factors such as profit after tax ( $\pm$ assessed considerations) and cost of capital for the fiscal year by business unit. (Adjusted according to individual performance and retroactively applied). - Quantitative indicators suggest that the DX Division achieved revenue of KRW 170 trillion and operating profit of KRW 14.4 trillion in 2023. Qualitative indicators include his contributions to leading the improvement of product competitiveness of the DX Division by enhancing the B2B businesses and expanding synergies between products. The bonus amount was determined based on the indicators listed above.
		Profit from exercising stock option	-	n/a
		Other Income	6	- Fringe benefits: Medical services, checkups, and group accident insurance are provided in line with the internal regulations for executive treatment (Board resolution)
	Retirement Income	-	n/a	
	Other Income	-	n/a	

(KRW mil)

Name	Type of remuneration		Total amount	Criteria and methodology
Kye-hyun Kyung (Former CEO)	Earned Income	Salary	594	In accordance with internal regulations for executive treatment (Board resolution), remuneration is determined based on position (president), responsibilities, and performance results. He was paid KRW 99 million per month from January to June.
		Bonus	99	- Traditional-holiday: 100% of monthly wage ※ No performance-based incentives for 2023
		Profit from exercising stock option	-	n/a
		Other Income	37	- Fringe benefits: Medical services, checkups, and group accident insurance are provided in line with the internal regulations for executive treatment (Board resolution)
	Retirement Income	-	n/a	
	Other Income	-	n/a	

(KRW mil)

Name	Type of remuneration		Total amount	Criteria and methodology
Tae-moon Roh (Director)	Earned Income	Salary	747	In accordance with internal regulations for executive treatment (Board resolution), remuneration is determined based on his position (president), responsibilities, and performance results. He was paid KRW 104 million per month from January to February, KRW 182 million in March, and KRW 119 million per month from April to June.
		Bonus	338	<ul style="list-style-type: none"> <li>- Traditional-holiday bonus: 100% of monthly wage</li> <li>- Performance incentive: Paid once a year within 0–50% of salary based on the compensation resources calculated according to financial factors such as profit after tax (<math>\pm</math> assessed considerations) and cost of capital for the fiscal year by business unit. (Adjusted according to individual performance and retroactively applied)</li> <li>- Quantitative indicators suggest that the MX Business achieved revenue of KRW 108.6 trillion in 2023. Qualitative indicators include his contributions to driving solid earnings through technology innovations in mobile and effective marketing, and by laying groundwork for growth via preemptive response to the future market. The bonus amount was determined based on the indicators listed above.</li> </ul>
		Profit from exercising stock option	-	n/a
		Other Income	13	- Fringe benefits: Medical services, checkups, and group accident insurance are provided in line with the internal regulations for executive treatment (Board resolution)
	Retirement Income	-	n/a	
	Other Income	-	n/a	

(KRW mil)

Name	Type of remuneration		Total amount	Criteria and methodology
Hark-kyu Park (Director)	Earned Income	Salary	575	In accordance with internal regulations for executive treatment (Board resolution), remuneration is determined based on his position (president), responsibilities, and performance results. He was paid KRW 85 million per month from January to February, KRW 127 million in March and KRW 93 million per month from April to June.
		Bonus	172	<ul style="list-style-type: none"> <li>- Traditional-holiday bonus: 100% of monthly wage</li> <li>- Performance incentive: Paid once a year within 0–50% of salary based on the compensation resources calculated according to financial factors such as profit after tax (<math>\pm</math> assessed considerations) and cost of capital for the fiscal year by business unit. (Adjusted according to individual performance. and retroactively applied)</li> <li>- Quantitative indicators suggest that the DX Division achieved revenue of KRW 170 trillion and operating profit of KRW 14.4 trillion in 2023. Qualitative indicators include his contribution to supporting the Company to achieve solid results through efficient resource management even in the period of low growth; and to recover new growth engines including new technologies and businesses. The bonus amount was determined based on the indicators listed above.</li> </ul>
		Profit from exercising stock option	-	n/a
		Other Income	26	- Fringe benefits: Medical services, checkups, and group accident insurance are provided in line with the internal regulations for executive treatment (Board resolution)
	Retirement Income	-	n/a	
	Other Income	-	n/a	

(KRW mil)

Name	Type of remuneration		Total amount	Criteria and methodology
Jung-bae Lee (Director)	Earned Income	Salary	496	In accordance with internal regulations for executive treatment (Board resolution), remuneration is determined based on his position (president), responsibilities; and performance results. He was paid KRW 83 million per month from January to June.
		Bonus	83	<ul style="list-style-type: none"> <li>- Traditional-holiday bonus: 100% of monthly wage</li> <li>※No performance-based incentives for 2023</li> </ul>
		Profit from exercising stock option	-	n/a
		Other Income	22	- Fringe benefits: Medical services, checkups, and group accident insurance are provided in line with the internal regulations for executive treatment (Board resolution)
	Retirement Income	-	n/a	
	Other Income	-	n/a	

< Remuneration for five highest-paid Executive Directors who are paid KRW 500 million or more >

(1) Summary on remuneration by Executive

(KRW mil)

Name	position	Total amount of remuneration	Remuneration not included in total amount
Hae-chang Lee	Executive vice-president (EVP)	1,977	-
Geun-hwi Lim	Advisor	1,767	-
Jae-wook Chung	EVP	1,717	-
Kang-seok Choi	Advisor	1,617	-
Woo-seung Jang	EVP	1,601	-

Earned income as per Income Tax Act (Article 20: Wage and Salary Income, Article 21: Other Income, Article 22: Retirement income).

(2) Criteria and methodology

Name	Type of remuneration	Total amount	Criteria and methodology
Hae-chang Lee	Salary	265	In accordance with internal regulations for executive treatment (Board resolution), remuneration is determined based on position (EVP), responsibility, and performance results. He was paid an average of KRW 44 million per month from January to June.
	Bonus	1,631	- Traditional-holiday bonus: KRW 40 million Performance incentive: Paid once a year of the incentive based on the payment rate decided by the CEO according to the level of achievement for the annual individual target (developing automotive CIS products and expanding customer base) and the amount set for the individual. ※ Quantitative indicators suggest that his team achieved order amount of USD 430 million for the new Automotive CIS business in 2023 and secured seven new customers. Qualitative indicators include his contributions to actively promoting the development of next-generation CIS products and securing new Mobile CIS customers. The bonus was determined based on the indicators listed above.

Name	Type of remuneration		Total amount	Criteria and methodology
		Profit from exercising stock option	-	n/a
		Other Income	81	- Fringe benefits: Medical services, checkups, and group accident insurance are provided in line with the internal regulations for executive treatment (Board resolution)
	Retirement Income		-	n/a
	Other Income		-	n/a

(KRW mil)

Name	Type of remuneration		Total amount	Criteria and methodology
Geun-hwi Lim	Earned Income	Salary	78	In accordance with internal regulations for executive treatment (Board resolution), remuneration is determined based on position (EVP), responsibility, and performance results. He was paid an average of KRW 13 million per month from January to June.
		Bonus	1,600	- Traditional-holiday bonus: KRW 13 million - Performance incentive: Paid once a year of the incentive based on the payment rate decided by the CEO according to the level of achievement for the annual individual target (expanding utilization of Big Data infrastructure and integrating management of personal data) and the amount set for the individual. ※ Quantitative indicators suggest that the DX Division achieved revenue of KRW 170 trillion and operating profit of KRW 14.4 trillion in 2023. Qualitative indicators include his contributions to enhancing business competitiveness by increasing utilization of Big Data infrastructure and integrating management of personal information. The bonus was determined based on the indicators listed above.
		Profit from exercising stock option	-	n/a
		Other Income	89	- Fringe benefits: Medical services, checkups, and group accident insurance are provided in line with the internal regulations for executive treatment (Board resolution)
	Retirement Income		-	n/a
	Other Income		-	n/a

(KRW mil)

Name	Type of remuneration		Total amount	Criteria and methodology
Jae-wook Chung	Earned Income	Salary	211	In accordance with internal regulations for executive treatment (Board resolution), remuneration is determined based on position (EVP), responsibility, and performance results. He was paid an average of KRW 35 million per month from January to June.
		Bonus	1,460	- Traditional-holiday bonus: KRW 25 million - Performance incentive: Paid once a year of the incentive based on the payment rate decided by the CEO according to the level of achievement for the annual individual target (offering new user experiences using AI and enhancing product competitiveness) and the amount set for the individual. ※Quantitative indicators suggest that the DX Division achieved revenue of KRW 170 trillion and operating profit of KRW 14.4 trillion in 2023. Qualitative indicators include his contributions to offering new user experiences using AI and enhancing product competitiveness. The bonus was determined based on the indicators listed above.
		Profit from exercising stock option	-	n/a
		Other Income	45	- Fringe benefits: Medical services, checkups, and group accident insurance are provided in line with the internal regulations for executive treatment (Board resolution)
	Retirement Income	-	n/a	
	Other Income	-	n/a	

(KRW mil)

Name	Type of remuneration		Total amount	Criteria and methodology
Kang-seok Choi	Earned Income	Salary	72	In accordance with internal regulations for executive treatment (Board resolution), remuneration is determined based on position (EVP level), responsibility, and performance results. He was paid an average of KRW 12 million per month from January to June.
		Bonus	1,523	- Traditional-holiday bonus: KRW 12 million - Performance incentive: Paid once a year of the incentive based on the payment rate decided by the CEO according to the level of achievement for the annual individual target (expanding sales of B2B products, solutions, and services) and the amount set for the individual.

Name	Type of remuneration		Total amount	Criteria and methodology
				※ Quantitative indicators suggest that the MX Business achieved revenue of KRW 108.6 trillion in 2023. Qualitative indicators include his contributions to expanding sales of B2B products, solutions, and services. The bonus was determined based on the indicators listed above.
		Profit from exercising stock option	-	n/a
		Other Income	22	- Fringe benefits: Medical services, checkups, and group accident insurance are provided in line with the internal regulations for executive treatment (Board resolution)
		Retirement Income	-	n/a
		Other Income	-	n/a

(KRW mil)

Name	Type of remuneration		Total amount	Criteria and methodology
Woo-seung Jang	Earned Income	Salary	305	In accordance with internal regulations for executive treatment (Board resolution), remuneration is determined based on position (EVP), responsibility, and performance results. He was paid an average of KRW 51 million per month from January to June.
		Bonus	1,232	- Traditional-holiday bonus: KRW 33 million - Performance incentive: Paid once a year of the incentive based on the payment rate decided by the CEO according to the level of achievement for the annual individual target (supporting expansion of online business and integrating management of the personal data) and the amount set for the individual. ※ Quantitative indicators suggest that the DX Division achieved revenue of KRW 170 trillion and operating profit of KRW 14.4 trillion in 2023. Qualitative indicators include his contributions to supporting expansion of online business and integrating management of personal information. The bonus was determined based on the indicators listed above.
		Profit from exercising stock option	-	n/a
		Other Income	65	- Fringe benefits: Medical services, checkups, and group accident insurance are provided in line with the internal regulations for executive treatment (Board resolution)
		Retirement Income	-	n/a
		Other Income	-	n/a



## A. Stock options granted and exercised

### (1) Status of stock options granted to registered Directors

As of June 30, 2024, there were no accumulated-basis unexercised stock options granted to registered Directors, auditors, or people who instruct another person to conduct business.

(KRW mil)			
Type	Number <sup>1)</sup>	Total fair value of stock options	Note
Registered Director	4	-	-
Independent Director	3	-	-
Audit Committee member or auditor	3	-	-
Person who instructs another person to conduct business	1,160	-	-
Total	1,170	-	-

1) Based on the number of persons as of the reporting date.

## IX. Affiliates and Subsidiaries

### 1. Affiliates & subsidiaries

#### A. Affiliates

As of June 30, 2024, Samsung Group is consisted of 63 domestic affiliates. Among the Samsung Group's 63 domestic affiliates, seventeen (17) affiliates including Samsung Electronics are listed, and forty-six (46) affiliates are unlisted.

[As of June 30, 2024]

Name of affiliated group	No. of Affiliates		
	Listed	Unlisted	Total
Samsung	17	46	63

## B. Ownership status of affiliates and subsidiaries

### 1) Domestic

Investee	Samsung C&T Corporation	Samsung BioLogics	Samsung Life Insurance	Samsung SDI	Samsung SDS	SamsungFN REIT	Samsung Engineering	Samsung Electro-mechanics	Samsung Electronics	Samsung Heavy Industries	Samsung Securities	Samsung Card	Samsung Fire & Marine Insurance	MULTI CAMPUS	S1 Corporation	Cheil Worldwide
Samsung C&T Corporation		43.1	19.3		17.1		7.0		5.0	0.1						
Samsung BioLogics																
Samsung Life Insurance	0.1	0.1		0.1	0.1	19.5	0.1	0.2	8.6	3.0	29.4	71.9	15.0	0.0	5.4	0.3
Samsung SDI							11.7			0.4					11.0	
Samsung SDS														47.2		
Samsung Electro-mechanics										2.1						
Samsung Electronics		31.2		19.6	22.6			23.7		15.2						25.2
Samsung Heavy Industries																
Samsung Securities						0.5									1.3	
Samsung Card															1.9	3.0
Samsung Fire & Marine Insurance						18.7	0.2		1.5						1.0	
S1 Corporation						0.8										
Cheil Worldwide										0.1						
Hotel Shilla																
SDC																
Samsung Asset Management																
Samsung Electronics Service																
Miracom																
Samsung Global Research														15.2		
Harman International Industries, Inc.																
Total	0.1	74.3	19.3	19.7	39.7	39.5	19.0	23.8	15.1	20.9	29.4	71.9	15.0	62.4	20.7	28.6

※ Percent of ownership as of June 30, 2024 based on common shares

Investee Investor	Hotel Shilla	Samsung Display	Samsung Medison	Samsung BioEpis	Samsung Venture Investment	Samsung Life Service	Samsung Futures	Samsung Active Asset Management	Samsung SRA Asset Management	Samsung Welstory	Samsung Asset Management	Samsung Electronics Logitech	Samsung Electronics Service	Samsung Electronics Service CS	Samsung Electronics Sales	Samsung Card Customer Service
Samsung C&T Corporation					16.7					100.0						
Samsung BioLogics				100.0												
Samsung Life Insurance	7.3					99.8			100.0		100.0					
Samsung SDI	0.1	15.2			16.3											
Samsung SDS																
Samsung Electro-mechanics					17.0											
Samsung Electronics	5.1	84.8	68.5		16.3							100.0	99.3		100.0	
Samsung Heavy Industries					17.0											
Samsung Securities.	3.1				16.7		100.0									
Samsung Card	1.3															100.0
Samsung Fire & Marine Insurance																
S1 Corporation																
Cheil Worldwide																
Hotel Shilla																
SDC																
Samsung Asset Management								100.0								
Samsung Eelectronics Service														100.0		
Miracom																
Samsung Global Research																
Harman International Industries, Inc.																
Total	16.9	100.0	68.5	100.0	100.0	99.8	100.0	100.0	100.0	100.0	100.0	100.0	99.3	100.0	100.0	100.0

※ Percent of ownership as of June 30, 2024 based on common shares

Investee Investor	Samsung Corning Advanced Class	Samsung Hedge Asset Management	Samsung Fire & Marine Insurance Service	Samsung Claim Adjustment Service	SEMES	Suwon Samsung Bluewings FC	STECO	Shilla HM	SD Flex	SBTM	S-1CRM	SU Materials	S-Core	STM	HDC Shilla Duty Free LTD	Open Hands
Samsung C&T Corporation																
Samsung BioLogics																
Samsung Life Insurance																
Samsung SDI									50.0					100.0		
Samsung SDS													81.8			100.0
Samsung Electro-mechanics																
Samsung Electronics					91.5		70.0									
Samsung Heavy Industries																
Samsung Securities.																
Samsung Card																
Samsung Fire & Marine Insurance			100.0	100.0												
S1 Corporation											100.0		0.6			
Cheil Worldwide						100.0							5.2			
Hotel Shilla								100.0		100.0					50.0	
SDC	50.0											50.0				
Samsung Asset Management		100.0														
Samsung Eelectronics Service																
Miracom													0.5			
Samsung Global Research																
Harman International Industries, Inc.																
Total	50.0	100.0	100.0	100.0	91.5	100.0	70.0	100.0	50.0	100.0	100.0	50.0	88.1	100.0	50.0	100.0

※ Percent of ownership as of June 30, 2024 based on common shares

Investee Investor	Cheil Fashion Retail	Miracom	Mirero System Co., Ltd.	Samsung Global Research	Samsung Lions	Samsung Life Financial Service	Samsung Fire & Marine Financial Service	Samwoo Architects & Engineers	Seoul Lakeside CC	SECUI	CVnet	SHP Corporation	Hamman International Korea	Human TSS	Stellarforest
Samsung C&T Corporation	100.0			1.0				100.0	100.0	8.7	40.1				
Samsung BioLogics															
Samsung Life Insurance				14.8		100.0									
Samsung SDI				29.6											
Samsung SDS		83.6								56.5	9.4				
Samsung Electro-mechanics				23.8											
Samsung Electronics				29.8											100.0
Samsung Heavy Industries				1.0											
Samsung Securities															
Samsung Card															
Samsung Fire & Marine Insurance							100.0								
S1 Corporation		0.6												100.0	
Cheil Worldwide		5.4			67.5										
Hotel Shilla												100.0			
SDC															
Samsung Asset Management															
Samsung Eelectronics Service															
Miracom															
Samsung Global Research															
Hamman International Industries, Inc.													100.0		
Total	100.0	89.6	0	100.0	67.5	100.0	100.0	100.0	100.0	65.2	49.5	100.0	100.0	100.0	100.0

※ Percent of ownership as of June 30, 2024 based on common shares

## 2) Overseas

Investor	Investee	Ownership
Samwoo Architects & Engineers	SAMOO AUSTIN INC	100.0
Samwoo Architects & Engineers	SAMOO HU Designer and Engineering Services Limited	100.0
Samwoo Architects & Engineers	SAMOO DESIGNERS & ENGINEERS INDIA PRIVATE LIMITED	100.0
Samwoo Architects & Engineers	SAMOO (KL) SDN. BHD.	100.0
Samwoo Architects & Engineers	SAMOO Design Consulting Co.,Ltd	100.0
Samsung C&T America Inc.	Samsung Green repower, LLC	100.0
Samsung C&T America Inc.	Samsung Solar Construction Inc.	100.0
Samsung C&T America Inc.	QSSC, S.A. de C.V.	20.0
Samsung C&T America Inc.	Samsung Solar Energy LLC	100.0
Samsung C&T America Inc.	Equipment Trading Solutions Group, LLC	70.0
Samsung C&T America Inc.	SAMSUNG C&T CHARGING SOLUTIONS LLC	100.0
Samsung Renewable Energy Inc.	SP Armow Wind Ontario LP	50.0
Samsung Renewable Energy Inc.	SRE GRW EPC GP Inc.	100.0
Samsung Renewable Energy Inc.	SRE GRW EPC LP	100.0
Samsung Renewable Energy Inc.	SRE SKW EPC GP Inc.	100.0
Samsung Renewable Energy Inc.	SRE SKW EPC LP	100.0
Samsung Renewable Energy Inc.	SRE WIND PA GP INC.	100.0
Samsung Renewable Energy Inc.	SRE WIND PA LP	100.0
Samsung Renewable Energy Inc.	SRE GRS Holdings GP Inc.	100.0
Samsung Renewable Energy Inc.	SRE GRS Holdings LP	100.0
Samsung Renewable Energy Inc.	SRE K2 EPC GP Inc.	100.0
Samsung Renewable Energy Inc.	SRE K2 EPC LP	100.0
Samsung Renewable Energy Inc.	SRE KS HOLDINGS GP INC.	100.0
Samsung Renewable Energy Inc.	SRE KS HOLDINGS LP	100.0
Samsung Renewable Energy Inc.	SP Belle River Wind LP	42.5
Samsung Renewable Energy Inc.	SRE Armow EPC GP Inc.	100.0
Samsung Renewable Energy Inc.	SRE Armow EPC LP	100.0
Samsung Renewable Energy Inc.	North Kent Wind 1 LP	35.0
Samsung Renewable Energy Inc.	SRE Wind GP Holding Inc.	100.0
Samsung Renewable Energy Inc.	South Kent Wind LP Inc.	50.0
Samsung Renewable Energy Inc.	Grand Renewable Wind LP Inc.	45.0
Samsung Renewable Energy Inc.	SRE North Kent 2 LP Holdings LP	100.0
Samsung Renewable Energy Inc.	SRE Solar Development GP Inc.	100.0
Samsung Renewable Energy Inc.	SRE Solar Development LP	100.0
Samsung Renewable Energy Inc.	SRE Windsor Holdings GP Inc.	100.0
Samsung Renewable Energy Inc.	SRE Southgate Holdings GP Inc.	100.0
Samsung Renewable Energy Inc.	SRE Solar Construction Management GP Inc.	100.0
Samsung Renewable Energy Inc.	SRE Solar Construction Management LP	100.0
Samsung Renewable Energy Inc.	SRE BRW EPC GP INC.	100.0
Samsung Renewable Energy Inc.	SRE BRW EPC LP	100.0
Samsung Renewable Energy Inc.	SRE North Kent 1 GP Holdings Inc	100.0
Samsung Renewable Energy Inc.	SRE North Kent 2 GP Holdings Inc	100.0
Samsung Renewable Energy Inc.	SRE Belle River GP Holdings Inc	100.0
Samsung Renewable Energy Inc.	SRE NK1 EPC GP Inc	100.0
Samsung Renewable Energy Inc.	SRE NK1 EPC LP	100.0
Samsung Renewable Energy Inc.	SRE Summerside Construction GP Inc.	100.0
Samsung Renewable Energy Inc.	SRE Summerside Construction LP	100.0
SP Armow Wind Ontario GP Inc	SP Armow Wind Ontario LP	0.0
Samsung C&T Oil & Gas Parallel Corp.	PLL Holdings LLC	83.6
SRE GRW EPC GP Inc.	SRE GRW EPC LP	0.0
SRE SKW EPC GP Inc.	SRE SKW EPC LP	0.0
SRE WIND PA GP INC.	SRE WIND PA LP	0.0
SRE GRS Holdings GP Inc.	Grand Renewable Solar GP Inc.	50.0
SRE GRS Holdings GP Inc.	SRE GRS Holdings LP	0.0

Investor	Investee	Ownership
SRE K2 EPC GP Inc.	SRE K2 EPC LP	0.0
SRE KS HOLDINGS GP INC.	KINGSTON SOLAR GP INC.	50.0
SRE KS HOLDINGS GP INC.	SRE KS HOLDINGS LP	0.0
SP Belle River Wind GP Inc	SP Belle River Wind LP	0.0
SRE Armow EPC GP Inc.	SRE Armow EPC LP	0.0
SRE Wind GP Holding Inc.	SP Armow Wind Ontario GP Inc	50.0
SRE Wind GP Holding Inc.	South Kent Wind GP Inc.	50.0
SRE Wind GP Holding Inc.	Grand Renewable Wind GP Inc.	50.0
South Kent Wind GP Inc.	South Kent Wind LP Inc.	0.0
Grand Renewable Wind GP Inc.	Grand Renewable Wind LP Inc.	0.0
North Kent Wind 1 GP Inc	North Kent Wind 1 LP	0.0
SRE Solar Development GP Inc.	SRE Solar Development LP	0.0
SRE Solar Construction Management GP Inc.	SRE Solar Construction Management LP	0.0
SRE BRW EPC GP INC.	SRE BRW EPC LP	0.0
SRE North Kent 1 GP Holdings Inc	North Kent Wind 1 GP Inc	50.0
SRE North Kent 2 GP Holdings Inc	SRE North Kent 2 LP Holdings LP	0.0
SRE Belle River GP Holdings Inc	SP Belle River Wind GP Inc	50.0
SRE NK1 EPC GP Inc	SRE NK1 EPC LP	0.0
SRE Summerside Construction GP Inc.	SRE Summerside Construction LP	0.0
Samsung Solar Energy LLC	Samsung Solar Energy 1 LLC	100.0
Samsung Solar Energy LLC	Samsung Solar Energy 2 LLC	100.0
Samsung Solar Energy LLC	Samsung Solar Energy 3, LLC	100.0
Samsung Solar Energy 1 LLC	CS SOLAR LLC	50.0
Samsung Solar Energy 2 LLC	5S ENERGY HOLDINGS, LLC	50.0
Samsung C&T Deutschland GmbH	SungEel Recycling Park Thüringen GmbH	50.0
Samsung C&T Deutschland GmbH	POSS-SLPC, S.R.O	20.0
Samsung C&T Deutschland GmbH	Solluce Romania 1 B.V.	20.0
Samsung C&T Deutschland GmbH	S.C. Otelinox S.A	99.9
Samsung C&T Corporation Poland LLC	Samsung C&T Corporation Romania S.R.L	100.0
Samsung C&T Malaysia SDN. BHD	WARIS GIGIH ENGINEERING AND TECHNOLOGY SDN. BHD.	70.0
Samsung C&T Singapore Pte., Ltd.	Samsung Chemtech Vina LLC	48.3
Samsung C&T Singapore Pte., Ltd.	Samsung C&T Thailand Co., Ltd	0.2
Samsung C&T Singapore Pte., Ltd.	Malaysia Samsung Steel Center Sdn.Bhd	30.0
Samsung C&T Singapore Pte., Ltd.	S&G Biofuel PTE.LTD	12.6
S&G Biofuel PTE.LTD	PT. Gandaerah Hendana	95.0
S&G Biofuel PTE.LTD	PT. Inecda	95.0
Vista Contracting and Investment Global Pte. Ltd.	VISTA CONTRACTING AND DEVELOPMENT BANGLADESH LTD.	100.0
Vista Contracting and Investment Global Pte. Ltd.	Vista NEXT Limited	51.0
Vista Contracting and Investment Global Pte. Ltd.	WELVISTA COMPANY LIMITED	30.0
CHEIL HOLDING INC.	SAMSUNG CONST. CO. PHILS.	75.0
Samsung C&T Hongkong Ltd.	Samsung C&T Thailand Co., Ltd	6.8
Samsung C&T Hongkong Ltd.	SAMSUNG TRADING (SHANGHAI) CO., LTD	100.0
Samsung C&T Hongkong Ltd.	Samsung Precision Stainless Steel(pinghu) Co.,Ltd.	45.0
Samsung Electronics	Samsung Electronics America, Inc.	100.0
Samsung Electronics	Samsung (China) Semiconductor Co., Ltd.	100.0
Samsung Electronics	Samsung Electronics Europe Holding Cooperatief U.A.	100.0
Samsung Electronics	Samsung Asia Pte. Ltd.	100.0
Samsung Electronics	Samsung Electronics Benelux B.V.	100.0
Samsung Electronics	Samsung Electronics Hungarian Private Co. Ltd.	100.0
Samsung Electronics	Samsung Eletronica da Amazonia Ltda.	87.0
Samsung Electronics	Samsung (CHINA) Investment Co., Ltd.	100.0
Samsung Electronics	Samsung Electronics Suzhou Semiconductor Co., Ltd.	100.0
Samsung Electronics	Samsung Electronics (UK) Ltd.	100.0
Samsung Electronics	Samsung Electronics Holding GmbH	100.0
Samsung Electronics	Thai Samsung Electronics Co., Ltd.	91.8
Samsung Electronics	Samsung Electronics Slovakia s.r.o	55.7

Investor	Investee	Ownership
Samsung Electronics	Tianjin Samsung Telecom Technology Co., Ltd.	90.0
Samsung Electronics	Samsung Japan Corporation	100.0
Samsung Electronics	Samsung Electronics France S.A.S	100.0
Samsung Electronics	Samsung Electronics Rus Kaluga LLC	100.0
Samsung Electronics	Samsung Electronics Rus Company LLC	100.0
Samsung Electronics	Samsung Electronics Mexico S.A. De C.V.	63.6
Samsung Electronics	Samsung Electronics Italia S.P.A.	100.0
Samsung Electronics	Samsung Electronics Iberia, S.A.	100.0
Samsung Electronics	Suzhou Samsung Electronics Co., Ltd.	69.1
Samsung Electronics	Tianjin Samsung LED Co., Ltd.	100.0
Samsung Electronics	PT Samsung Electronics Indonesia	100.0
Samsung Electronics	Samsung Electronics Taiwan Co., Ltd.	100.0
Samsung Electronics	Samsung Electronics Australia Pty. Ltd.	100.0
Samsung Electronics	Samsung Electronics (M) Sdn. Bhd.	100.0
Samsung Electronics	Tianjin Samsung Electronics Co., Ltd.	48.2
Samsung Electronics	Samsung Electronics Canada, Inc.	100.0
Samsung Electronics	Samsung Electronics Latinoamerica(Zona Libre), S. A.	100.0
Samsung Electronics	Samsung Electronics Hong Kong Co., Ltd.	100.0
Samsung Electronics	Samsung Electronics Polska, SP.Zo.o	100.0
Samsung Electronics	Samsung India Electronics Private Ltd.	100.0
Samsung Electronics	Samsung Electronics Nordic Aktiebolag	100.0
Samsung Electronics	Samsung Electronics Portuguesa, Unipessoal, Lda.	100.0
Samsung Electronics	Samsung Electronics Suzhou Computer Co., Ltd.	73.7
Samsung Electronics	Samsung Gulf Electronics Co., Ltd.	100.0
Samsung Electronics	Samsung Electronics South Africa(Pty) Ltd.	100.0
Samsung Electronics	Samsung Electronics Austria GmbH	100.0
Samsung Electronics	Samsung R&D Institute India-Bangalore Private Limited	100.0
Samsung Electronics	Samsung Vina Electronics Co., Ltd.	100.0
Samsung Electronics	Samsung Electronics Europe Logistics B.V.	100.0
Samsung Electronics	Shanghai Samsung Semiconductor Co., Ltd.	100.0
Samsung Electronics	Samsung Electronics Display (M) Sdn. Bhd.	75.0
Samsung Electronics	Samsung Semiconductor (China) R&D Co., Ltd.	100.0
Samsung Electronics	Samsung Malaysia Electronics (SME) Sdn. Bhd.	100.0
Samsung Electronics	Samsung Electronics Argentina S.A.	98.0
Samsung Electronics	Samsung R&D Institute Japan Co. Ltd.	100.0
Samsung Electronics	Samsung SemiConductor Xian Co., Ltd.	100.0
Samsung Electronics	Samsung Electronics Chile Limitada	4.1
Samsung Electronics	Samsung Electronics Egypt S.A.E	0.1
Samsung Electronics	Samsung Electronics Ltd.	100.0
Samsung Biologics	Samsung Biologics America, Inc.	100.0
Samsung BioEpis	Samsung Bioepis United States Inc.	100.0
Samsung BioEpis	SAMSUNG BIOEPIS UK LIMITED	100.0
Samsung BioEpis	Samsung Bioepis NL B.V.	100.0
Samsung BioEpis	Samsung Bioepis CH GmbH	100.0
Samsung BioEpis	Samsung Bioepis PL Sp z o.o.	100.0
Samsung BioEpis	SAMSUNG BIOEPIS AU PTY LTD	100.0
Samsung BioEpis	SAMSUNG BIOEPIS NZ LIMITED	100.0
Samsung BioEpis	Samsung Bioepis TW Limited	100.0
Samsung BioEpis	Samsung Bioepis HK Limited	100.0
Samsung BioEpis	SAMSUNG BIOEPIS IL LTD	100.0
Samsung BioEpis	SAMSUNG BIOEPIS BR PHARMACEUTICAL LTDA	100.0
Samsung Display	Intellectual Keystone Technology LLC	41.9
Samsung Display	Samsung Display America Holdings, Inc	100.0
Samsung Display	Samsung Display Vietnam Co., Ltd.	100.0
Samsung Display	Samsung Display Noida Private Limited	100.0
Samsung Display	Samsung Display Dongguan Co., Ltd.	100.0



Investor	Investee	Ownership
Samsung Display	Samsung Display Tianjin Co., Ltd.	95.0
Samsung Display	Novalied GmbH	9.9
SEMES	SEMES America, Inc.	100.0
SEMES	SEMES (XIAN) Co., Ltd.	100.0
Samsung Electronics America, Inc.	NeuroLogica Corp.	100.0
Samsung Electronics America, Inc.	Samsung HVAC America, LLC	100.0
Samsung Electronics America, Inc.	SmartThings, Inc.	100.0
Samsung Electronics America, Inc.	Samsung Oak Holdings, Inc.	100.0
Samsung Electronics America, Inc.	Joyent, Inc.	100.0
Samsung Electronics America, Inc.	TeleWorld Solutions, Inc.	100.0
Samsung Electronics America, Inc.	Samsung Semiconductor, Inc.	100.0
Samsung Electronics America, Inc.	Samsung Research America, Inc.	100.0
Samsung Electronics America, Inc.	Samsung Electronics Home Appliances America, LLC	100.0
Samsung Electronics America, Inc.	Samsung International, Inc.	100.0
Samsung Electronics America, Inc.	Harman International Industries, Inc.	100.0
Samsung Semiconductor, Inc.	Samsung Federal, Inc.	100.0
Samsung Semiconductor, Inc.	Samsung Austin Semiconductor LLC.	100.0
Samsung Electronics Canada, Inc.	AdGear Technologies Inc.	100.0
Samsung Research America, Inc.	SAMSUNG NEXT LLC	100.0
SAMSUNG NEXT LLC	SAMSUNG NEXT FUND LLC	100.0
Samsung International, Inc.	Samsung Mexicana S.A. de C.V.	100.0
Samsung Electronics Mexico S.A. De C.V.	Samsung Electronics Digital Appliance Mexico, SA de CV	100.0
Samsung Display America Holdings, Inc.	eMagin Corporation	100.0
Harman International Industries, Inc.	Harman International Japan Co., Ltd.	100.0
Harman International Industries, Inc.	Harman International Industries Canada Ltd.	100.0
Harman International Industries, Inc.	Harman Becker Automotive Systems, Inc.	100.0
Harman International Industries, Inc.	Harman Professional, Inc.	100.0
Harman International Industries, Inc.	Harman Connected Services, Inc.	100.0
Harman International Industries, Inc.	Roon Labs, LLC	100.0
Harman International Industries, Inc.	Harman Belgium SA	100.0
Harman International Industries, Inc.	Harman France SNC	100.0
Harman International Industries, Inc.	Red Bend Software SAS	100.0
Harman International Industries, Inc.	Harman Inc. & Co. KG	66.0
Harman International Industries, Inc.	Harman KG Holding, LLC	100.0
Harman International Industries, Inc.	Harman Becker Automotive Systems Italy S.R.L.	100.0
Harman International Industries, Inc.	Harman Industries Holdings Mauritius Ltd.	100.0
Harman International Industries, Inc.	Harman International Mexico, S. de R.L. de C.V.	99.9
Harman Becker Automotive Systems, Inc.	Harman International Estonia OU	100.0
Harman Professional, Inc.	Harman Singapore Pte. Ltd.	100.0
Harman Professional, Inc.	Harman da Amazonia Industria Eletronica e Participacoes Ltda.	0.0
Harman Professional, Inc.	Harman do Brasil Industria Eletronica e Participacoes Ltda.	0.0
Harman Connected Services, Inc.	Harman Connected Services Engineering Corp.	100.0
Harman Connected Services, Inc.	Harman Connected Services AB.	100.0
Harman Connected Services, Inc.	Harman Connected Services UK Ltd.	100.0
Harman Connected Services, Inc.	Harman Connected Services Corp. India Pvt. Ltd.	1.6
Harman Connected Services, Inc.	Global Symphony Technology Group Private Ltd.	100.0
Samsung Electronics (UK) Ltd.	Samsung Semiconductor Europe Limited	100.0
Samsung Electronics Holding GmbH	Samsung Semiconductor Europe GmbH	100.0
Samsung Electronics Holding GmbH	Samsung Electronics GmbH	100.0
Samsung Electronics Hungarian Private Co. Ltd.	Samsung Electronics Czech and Slovak s.r.o.	31.4
Samsung Electronics Hungarian Private Co. Ltd.	Samsung Electronics Slovakia s.r.o	44.3
Samsung Electronics Benelux B.V.	Samsung Electronics Mexico S.A. De C.V.	36.4
Samsung Electronics Benelux B.V.	SAMSUNG ELECTRONICS BALTICS SIA	100.0
Samsung Electronics Benelux B.V.	Samsung Electronics West Africa Ltd.	100.0
Samsung Electronics Benelux B.V.	Samsung Electronics East Africa Ltd.	100.0
Samsung Electronics Benelux B.V.	Samsung Electronics Saudi Arabia Ltd.	100.0

Investor	Investee	Ownership
Samsung Electronics Benelux B.V.	Samsung Electronics Egypt S.A.E	99.9
Samsung Electronics Benelux B.V.	Samsung Electronics Israel Ltd.	100.0
Samsung Electronics Benelux B.V.	Samsung Electronics Tunisia S.A.R.L	99.0
Samsung Electronics Benelux B.V.	Samsung Electronics Pakistan(Private) Ltd.	100.0
Samsung Electronics Benelux B.V.	Samsung Electronics South Africa Production (pty) Ltd.	100.0
Samsung Electronics Benelux B.V.	Samsung Electronics Turkiye	100.0
Samsung Electronics Benelux B.V.	Samsung Electronics Industry and Commerce Ltd.	100.0
Samsung Electronics Benelux B.V.	Samsung Semiconductor Israel R&D Center, Ltd.	100.0
Samsung Electronics Benelux B.V.	Samsung Electronics Levant Co.,Ltd.	100.0
Samsung Electronics Benelux B.V.	Samsung Electronics Maghreb Arab	100.0
Samsung Electronics Benelux B.V.	Samsung Electronics Venezuela, C.A.	100.0
Samsung Electronics Benelux B.V.	Samsung Eletronica da Amazonia Ltda.	13.0
Samsung Electronics Benelux B.V.	Samsung Electronics Chile Limitada	95.9
Samsung Electronics Benelux B.V.	Samsung Electronics Peru S.A.C.	100.0
Samsung Electronics Benelux B.V.	Samsung Electronics Ukraine Company LLC	100.0
Samsung Electronics Benelux B.V.	Samsung R&D Institute Ukraine	100.0
Samsung Electronics Benelux B.V.	Samsung R&D Institute Rus LLC	100.0
Samsung Electronics Benelux B.V.	Samsung Electronics Central Eurasia LLP	100.0
Samsung Electronics Benelux B.V.	Samsung Electronics Caucasus Co. Ltd	100.0
Samsung Electronics Benelux B.V.	Samsung Electronics Uzbekistan FC LLC	100.0
Samsung Electronics Benelux B.V.	Corephotonics Ltd.	100.0
Samsung Electronics Nordic Aktiefbolag	Samsung Nanoradio Design Center	100.0
AKG Acoustics Gmbh	Harman Professional Denmark ApS	100.0
AKG Acoustics Gmbh	Studer Professional Audio GmbH	100.0
Harman Professional Denmark ApS	Martin Professional Japan Ltd.	40.0
Harman Becker Automotive Systems GmbH	Harman International Romania SRL	0.0
Harman Becker Automotive Systems GmbH	Apostera UA, LLC	100.0
Harman Holding Gmbh & Co. KG	Harman Becker Automotive Systems GmbH	100.0
Harman Holding Gmbh & Co. KG	Harman Deutschland GmbH	100.0
Harman Holding Gmbh & Co. KG	Harman Becker Automotive Systems Manufacturing Kft	100.0
Harman Holding Gmbh & Co. KG	Harman RUS CIS LLC	100.0
Harman Inc. & Co. KG	Harman Holding Gmbh & Co. KG	100.0
Harman Inc. & Co. KG	Harman Management Gmbh	100.0
Harman Inc. & Co. KG	Harman Hungary Financing Ltd.	100.0
Harman Connected Services GmbH	Harman Connected Services OOO	100.0
Harman KG Holding, LLC	Harman Inc. & Co. KG	34.0
Harman Becker Automotive Systems Manufacturing Kft	Harman Professional Kft	100.0
Harman Becker Automotive Systems Manufacturing Kft	Harman Consumer Nederland B.V.	100.0
Harman Becker Automotive Systems Manufacturing Kft	Harman International Romania SRL	100.0
Harman Becker Automotive Systems Manufacturing Kft	Red Bend Ltd.	100.0
Harman Becker Automotive Systems Manufacturing Kft	Harman do Brasil Industria Eletronica e Participacoes Ltda.	100.0
Harman Hungary Financing Ltd.	Harman International Industries Limited	100.0
Harman Consumer Nederland B.V.	AKG Acoustics Gmbh	100.0
Harman Consumer Nederland B.V.	Harman Audio Iberia Espana Sociedad Limitada	100.0
Harman Consumer Nederland B.V.	Harman Holding Limited	100.0
Harman Audio Iberia Espana Sociedad Limitada	Harman France SNC	0.0
Harman Connected Services AB.	Harman Finland Oy	100.0
Harman Connected Services AB.	Harman Connected Services GmbH	100.0
Harman Connected Services AB.	Harman Connected Services Poland Sp.zoo	100.0
Harman Connected Services AB.	Harman Connected Services Solutions (Chengdu) Co., Ltd.	100.0
Harman International Industries Limited	Harman International Industries PTY Ltd.	100.0
Harman International Industries Limited	Harman de Mexico, S. de R.L. de C.V.	100.0
Harman Connected Services UK Ltd.	Harman Connected Services Morocco	100.0
Samsung Electronics Austria GmbH	Samsung Electronics Switzerland GmbH	100.0
Samsung Electronics Europe Holding Cooperatief U.A.	Samsung Electronics Czech and Slovak s.r.o.	68.6
Samsung Electronics Europe Holding Cooperatief U.A.	Samsung Electronics Romania LLC	100.0

Investor	Investee	Ownership
Samsung Electronics Europe Holding Cooperatief U.A.	SAMSUNG Zhilabs, S.L.	100.0
Samsung Electronics Europe Holding Cooperatief U.A.	Porta Nuova Varesine Building 2 S.r.l.	49.0
Samsung Electronics Europe Holding Cooperatief U.A.	Samsung Electronics Poland Manufacturing SP.Zo.o	100.0
Samsung Electronics Europe Holding Cooperatief U.A.	Samsung Electronics Greece S.M.S.A	100.0
Samsung Electronics Europe Holding Cooperatief U.A.	Samsung Electronics Air Conditioner Europe B.V.	100.0
Samsung Electronics Europe Holding Cooperatief U.A.	FOODIENT LTD.	100.0
Samsung Electronics Europe Holding Cooperatief U.A.	Samsung Denmark Research Center ApS	100.0
Samsung Electronics Europe Holding Cooperatief U.A.	Samsung Cambridge Solution Centre Limited	100.0
Samsung Electronics Europe Holding Cooperatief U.A.	Novalad GmbH	40.0
Samsung Electronics Singapore Pte. Ltd.	Samsung Electronics Display (M) Sdn. Bhd.	25.0
Samsung Asia Pte. Ltd.	Samsung Electronics Japan Co., Ltd.	100.0
Samsung Asia Pte. Ltd.	Samsung Electronics Singapore Pte. Ltd.	100.0
Samsung Asia Pte. Ltd.	Samsung Electronics New Zealand Limited	100.0
Samsung Asia Pte. Ltd.	Samsung Electronics Philippines Corporation	100.0
Samsung Asia Pte. Ltd.	Samsung R&D Institute BanglaDesh Limited	100.0
Samsung Asia Pte. Ltd.	Samsung Electronics Vietnam Co., Ltd.	100.0
Samsung Asia Pte. Ltd.	Samsung Electronics Vietnam THANGUYEN Co., Ltd.	100.0
Samsung Asia Pte. Ltd.	Samsung Electronics HCMC CE Complex Co., Ltd.	100.0
Samsung India Electronics Private Ltd.	Samsung Nepal Services Pvt, Ltd	100.0
Samsung India Electronics Private Ltd.	Red Brick Lane Marketing Solutions Pvt. Ltd.	100.0
PT Samsung Electronics Indonesia	PT Samsung Telecommunications Indonesia	100.0
Thai Samsung Electronics Co., Ltd.	Laos Samsung Electronics Sole Co., Ltd	100.0
Samsung Electronics Hong Kong Co., Ltd.	iMarket Asia Co., Ltd.	42.0
Suzhou Samsung Electronics Co., Ltd.	Samsung Suzhou Electronics Export Co., Ltd.	100.0
Samsung (CHINA) Investment Co., Ltd.	Suzhou Samsung Electronics Co., Ltd.	19.2
Samsung (CHINA) Investment Co., Ltd.	Samsung Mobile R&D Center China-Guangzhou	100.0
Samsung (CHINA) Investment Co., Ltd.	Samsung R&D Institute China-Shenzhen	100.0
Samsung (CHINA) Investment Co., Ltd.	Tianjin Samsung Electronics Co., Ltd.	43.1
Samsung (CHINA) Investment Co., Ltd.	Beijing Samsung Telecom R&D Center	100.0
Samsung (CHINA) Investment Co., Ltd.	Samsung Electronics Suzhou Computer Co., Ltd.	26.3
Samsung (CHINA) Investment Co., Ltd.	Samsung Electronics China R&D Center	100.0
Harman International (China) Holdings Co., Ltd.	Harman (Suzhou) Audio and Infotainment Systems Co., Ltd.	100.0
Harman International (China) Holdings Co., Ltd.	Harman Technology (Shenzhen) Co., Ltd.	100.0
Harman International (China) Holdings Co., Ltd.	Harman (China) Technologies Co., Ltd.	100.0
Harman Holding Limited	Harman Commercial (Shanghai) Co., Ltd.	100.0
Harman Holding Limited	Harman International (China) Holdings Co., Ltd.	100.0
Harman Holding Limited	Harman Automotive Electronic Systems (Suzhou) Co., Ltd.	100.0
Samsung Gulf Electronics Co., Ltd.	Samsung Electronics Egypt S.A.E	0.1
Samsung Electronics Maghreb Arab	Samsung Electronics Tunisia S.A.R.L	1.0
Harman Industries Holdings Mauritius Ltd.	Harman International (India) Private Limited	100.0
Global Symphony Technology Group Private Ltd.	Harman Connected Services Corp. India Pvt. Ltd.	98.4
Samsung Electronics Latinoamerica(Zona Libre), S. A.	Samsung Electronics Latinoamerica Miami, Inc.	100.0
Samsung Electronics Latinoamerica(Zona Libre), S. A.	Samsung Electronica Colombia S.A.	100.0
Samsung Electronics Latinoamerica(Zona Libre), S. A.	Samsung Electronics Panama. S.A.	100.0
Samsung Eletronica da Amazonia Ltda.	Samsung Electronics Argentina S.A.	2.0
Harman do Brasil Industria Eletronica e Participacoes Ltda.	Harman da Amazonia Industria Eletronica e Participacoes Ltda.	100.0
Samsung Electronics Central Eurasia LLP	Samsung Electronics Caucasus Co. Ltd	0.0
Samsung SDI	Intellectual Keystone Technology LLC	41.0
Samsung SDI	Samsung SDI Japan Co., Ltd.	89.2
Samsung SDI	Samsung SDI America, Inc.	91.7
Samsung SDI	Samsung SDI Hungary., Zrt.	100.0
Samsung SDI	Samsung SDI Europe GmbH	100.0
Samsung SDI	Samsung SDI Battery Systems GmbH	100.0
Samsung SDI	Samsung SDI Vietnam Co., Ltd.	100.0
Samsung SDI	Samsung SDI Energy Malaysia Sdn. Bhd.	100.0
Samsung SDI	Samsung SDI India Private Limited	100.0

Investor	Investee	Ownership
Samsung SDI	Samsung SDI(Hong Kong) Ltd.	97.6
Samsung SDI	Samsung SDI China Co., Ltd.	100.0
Samsung SDI	Samsung SDI-ARN (Xi'An) Power Battery Co., Ltd.	65.0
Samsung SDI	Samsung SDI ( Tianjin ) Battery Co.,Ltd.	80.0
Samsung SDI	STARPLUS ENERGY LLC.	51.0
Samsung SDI	Novaled GmbH	50.1
Samsung SDI	Samsung SDI South East Asia PTE LTD	100.0
Samsung SDI	SAMSUNG SDI WUXI CO.,LTD.	100.0
Samsung SDI	iMarket Asia Co., Ltd.	8.7
Samsung SDI(Hong Kong) Ltd.	Samsung SDI India Private Limited	0.0
Samsung SDI(Hong Kong) Ltd.	Tianjin Samsung SDI Co., Ltd.	80.0
Samsung Electro-Mechanics	Samsung Electro-Mechanics Japan Co., Ltd.	100.0
Samsung Electro-Mechanics	Samsung Electro-Mechanics America, Inc.	100.0
Samsung Electro-Mechanics	Samsung Electro-Mechanics Mexico, S.A. de C.V.	100.0
Samsung Electro-Mechanics	Samsung Electro-Mechanics GmbH	100.0
Samsung Electro-Mechanics	Samsung Electro-Mechanics Philippines, Corp.	100.0
Samsung Electro-Mechanics	Calamba Premier Realty Corporation	39.8
Samsung Electro-Mechanics	Samsung Electro-Mechanics Pte Ltd.	100.0
Samsung Electro-Mechanics	Samsung Electro-Mechanics Vietnam Co., Ltd.	100.0
Samsung Electro-Mechanics	Samsung Electro-Mechanics Software India Bangalore Private Limited	99.9
Samsung Electro-Mechanics	Tianjin Samsung Electro-Mechanics Co., Ltd.	81.8
Samsung Electro-Mechanics	Samsung High-Tech Electro-Mechanics(Tianjin) Co., Ltd.	95.0
Samsung Electro-Mechanics	Samsung Electro-Mechanics (Shenzhen) Co., Ltd.	100.0
Samsung Electro-Mechanics	Kunshan Samsung Electro-Mechanics Co., Ltd.	100.0
Samsung Electro-Mechanics	iMarket Asia Co., Ltd.	8.7
Samsung Electro-Mechanics America, Inc.	Samsung Electro-Mechanics Mexico, S.A. de C.V.	0.0
Calamba Premier Realty Corporation	Batino Realty Corporation	100.0
Samsung Electro-Mechanics Pte Ltd.	Samsung Electro-Mechanics Software India Bangalore Private Limited	0.1
Samsung Fire & Marine Insurance	Samsung Fire & Marine Management Corporation	100.0
Samsung Fire & Marine Insurance	SAMSUNG FIRE & MARINE INSURANCE COMPANY OF EUROPE LTD.	100.0
Samsung Fire & Marine Insurance	PT. Asuransi Samsung Tugu	70.0
Samsung Fire & Marine Insurance	SAMSUNG VINA INSURANCE COMPANY LIMITED	75.0
Samsung Fire & Marine Insurance	Samsung Reinsurance Pte. Ltd.	100.0
Samsung Fire & Marine Insurance	Samsung Property & Casualty Insurance Company(China), Ltd	37.0
Samsung Fire & Marine Insurance	Samsung Fire & Marine Insurance Management Middle East Limited	100.0
Samsung Heavy Industries Co.,Ltd.	Camellia Consulting Corporation	100.0
Samsung Heavy Industries Co.,Ltd.	Samsung Heavy Industries India Pvt.Ltd.	100.0
Samsung Heavy Industries Co.,Ltd.	SAMSUNG HEAVY INDUSTRIES (M) SDN.BHD	100.0
Samsung Heavy Industries Co.,Ltd.	Samsung Heavy Industries(Rongcheng) Co., Ltd	100.0
Samsung Heavy Industries Co.,Ltd.	SAMSUNG HEAVY INDUSTRIES NIGERIA LIMITED	100.0
Samsung Heavy Industries Co.,Ltd.	Samsung Heavy Industries Mozambique LDA	100.0
Samsung Heavy Industries Co.,Ltd.	Samsung Heavy Industries Rus LLC	100.0
SAMSUNG HEAVY INDUSTRIES NIGERIA LIMITED	SHI - MCI FZE	70.0
Samsung Life Insurance	Beijing Samsung Real Estate Co.. Ltd	90.0
Samsung Life Insurance	Porta Nuova Varesine Building 2 S.r.l.	51.0
Samsung Life Insurance	Samsung Life Insurance (Thailand) Public Co., Ltd	48.9
Samsung Asset Management	Samsung Asset Management (New York), Inc.	100.0
Samsung Asset Management	Samsung Global SME Private Equity Manager Fund Co., Ltd.	100.0
Samsung Asset Management	Samsung Asset Management U.S. Holdings, Inc.	100.0
Samsung Asset Management	Samsung Private Equity Fund 2022 GP, Ltd.	100.0
Samsung Asset Management	Samsung Co-Investment 2021 GP, Ltd.	100.0
Samsung Asset Management	Samsung Asset Management(London) Ltd.	100.0
Samsung Asset Management	Samsung Private Equity Manager I Co., Ltd.	100.0
Samsung Asset Management	Samsung Asset Management (Hong Kong) Ltd.	100.0
Samsung C&T Corporation	Samsung C&T Deutschland GmbH	100.0
Samsung C&T Corporation	Samsung Renewable Energy Inc.	100.0

Investor	Investee	Ownership
Samsung C&T Corporation	Beijing Samsung Real Estate Co.. Ltd	10.0
Samsung C&T Corporation	Samsung C&T America Inc.	100.0
Samsung C&T Corporation	SAM investment Manzanilo.B.V	53.3
Samsung C&T Corporation	Samsung C&T Japan Corporation	100.0
Samsung C&T Corporation	SCNT Power Kelar Inversiones Limitada	100.0
Samsung C&T Corporation	Samsung C&T (KL) Sdn.,Bhd.	100.0
Samsung C&T Corporation	Samsung Fashion Trading Co. ,Ltd	100.0
Samsung C&T Corporation	SAMSUNG C&T (SHANGHAI) CO., LTD.	100.0
Samsung C&T Corporation	Vista Contracting and Investment Global Pte. Ltd.	100.0
Samsung C&T Corporation	Samsung E&C America, INC.	100.0
Samsung C&T Corporation	Samsung SDI(Hong Kong) Ltd.	2.4
Samsung C&T Corporation	Samsung Precision Stainless Steel(pinghu) Co.,Ltd.	55.0
Samsung C&T Corporation	Samsung C&T U.K. Ltd.	100.0
Samsung C&T Corporation	Samsung C&T Singapore Pte., Ltd.	100.0
Samsung C&T Corporation	Samsung C&T Hongkong Ltd.	100.0
Samsung C&T Corporation	CHEIL INDUSTRIES ITALY SRL	100.0
Samsung C&T Corporation	Samsung C&T ECUK Limited	100.0
Samsung C&T Corporation	VSSC STEEL CENTER LIMITED LIABILITY COMPANY	70.0
Samsung C&T Corporation	Samsung C&T Thailand Co., Ltd	93.0
Samsung C&T Corporation	S&G Biofuel PTE.LTD	50.5
Samsung C&T Corporation	Samsung SDI America, Inc.	8.3
Samsung C&T Corporation	POSS-SLPC, S.R.O	50.0
Samsung C&T Corporation	QSSC, S.A. de C.V.	80.0
Samsung C&T Corporation	Malaysia Samsung Steel Center Sdn.Bhd	70.0
Samsung C&T Corporation	Samsung C&T Taiwan Co., Ltd.	100.0
Samsung C&T Corporation	Samsung C&T India Private Limited	100.0
Samsung C&T Corporation	Samsung C&T Corporation Rus LLC	100.0
Samsung C&T Corporation	Samsung C&T (Xi'an) Co., Ltd.	100.0
Samsung C&T Corporation	Samsung C&T Lima S.A.C.	100.0
Samsung C&T Corporation	SAMSUNG C&T CORPORATION VIETNAM CO., LTD	100.0
Samsung C&T Corporation	Samsung C&T Renewable Energy Australia Pty Ltd	100.0
Samsung C&T Corporation	Samsung C&T Corporation Poland LLC	100.0
Samsung C&T Corporation	Samsung C&T Malaysia SDN. BHD	100.0
Samsung C&T Corporation	Samsung C&T Chile Copper SpA	100.0
Samsung C&T Corporation	Erdsam Co., Ltd.	100.0
Samsung C&T Corporation	WARIS GIGIH ENGINEERING AND TECHNOLOGY SDN. BHD.	30.0
Samsung C&T Corporation	Solluce Romania 1 B.V.	80.0
Samsung C&T Corporation	Samsung C&T Oil & Gas Parallel Corp.	100.0
Samsung C&T Corporation	Whesoe engineering Limited	100.0
Samsung C&T Corporation	Samsung Chemtech Vina LLC	51.7
Samsung C&T Corporation	Samsung C&T Corporation India Private Limited	100.0
Samsung C&T Corporation	SAMSUNG C&T Mongolia LLC.	70.0
Samsung C&T Corporation	Samsung C&T Eng.&Const. Mongolia LLC.	100.0
Samsung C&T Corporation	S&WOO CONSTRUCTION PHILIPPINES,INC.	100.0
Samsung C&T Corporation	SAMSUNG CONST. CO. PHILS.	25.0
Samsung C&T Corporation	CHEIL HOLDING INC.	40.0
Samsung C&T Corporation	SAMSUNG C&T CORPORATION SAUDI ARABIA	100.0
Samsung C&T Corporation	SAM Gulf Investment Limited	100.0
Samsung C&T Corporation	Samsung C&T Corporation UEM Construction JV Sdn Bhd	60.0
Samsung Welstory	Welstory Hungary Kft.	100.0
Samsung Welstory	WELSTORY VIETNAM COMPANY LIMITED	100.0
Samsung Welstory	Shanghai Ever-Hongjun Business Mgt Service Co.,LTD	85.0
Samsung Welstory	Shanghai Welstory Food Company Limited	81.6
MULTICAMPUS	LANGUAGE TESTING INTERNATIONAL, INC.	82.4
WELSTORY VIETNAM COMPANY LIMITED	WELVISTA COMPANY LIMITED	70.0
Pengtai Greater China Company Limited	PENGTAI CHINA CO.,LTD.	100.0



Investor	Investee	Ownership
Pengtai Greater China Company Limited	PengTai Taiwan Co., Ltd.	100.0
PENGTAI CHINA CO.,LTD.	PENGTAI E-COMMERCE CO.,LTD	100.0
PENGTAI CHINA CO.,LTD.	Beijing Pengtai Borui E-commerce Co.,Ltd.	100.0
PENGTAI INTERACTIVE ADVERTISING CO.,LTD	Medialytics Inc.	100.0
PENGTAI INTERACTIVE ADVERTISING CO.,LTD	Beijing Pengtai Baozun E-commerce Co., Ltd.	51.0
iMarket Asia Co., Ltd.	iMarket China Co., Ltd.	80.0
Samsung Securities	Samsung Securities (America), Inc.	100.0
Samsung Securities	Samsung Securities (Europe) Limited.	100.0
Samsung Securities	Samsung Securities (Asia) Limited.	100.0
Samsung SDS	iMarket Asia Co., Ltd.	40.6
Samsung SDS	Samsung SDS America, Inc.	100.0
Samsung SDS	SAMSUNG SDS GSCL Canada., Ltd.	100.0
Samsung SDS	Samsung SDS Europe, Ltd.	100.0
Samsung SDS	Samsung SDS Global SCL Hungary, Kft.	100.0
Samsung SDS	Samsung SDS Global SCL Slovakia, S.R.O.	100.0
Samsung SDS	Samsung SDS Global SCL Poland Sp. Z.o.o.	100.0
Samsung SDS	Samsung GSCL Sweden AB	100.0
Samsung SDS	Samsung SDS Global SCL France SAS	100.0
Samsung SDS	Samsung SDS Global SCL Italy S.R.L. A Socio Unico	100.0
Samsung SDS	Samsung SDS Global Supply Chain Logistics Spain S.L.U	100.0
Samsung SDS	Samsung SDS Global SCL Netherlands Cooperatief U.A.	100.0
Samsung SDS	Samsung SDS Global SCL Germany GmbH	100.0
Samsung SDS	Samsung SDS Global SCL Romania S.R.L	100.0
Samsung SDS	Samsung SDS Asia Pacific Pte, Ltd.	100.0
Samsung SDS	Samsung Data Systems India Private Limited	100.0
Samsung SDS	Samsung SDS Vietnam Co., Ltd.	100.0
Samsung SDS	PT. Samsung SDS Global SCL Indonesia	100.0
Samsung SDS	Samsung SDS Global SCL Philippines Co., Ltd.Inc.	100.0
Samsung SDS	Samsung SDS Global SCL Thailand Co.,Ltd	100.0
Samsung SDS	SAMSUNG SDS MALAYSIA SDN. BHD.	100.0
Samsung SDS	Samsung SDS Global SCL Australia Pty.,Ltd.	100.0
Samsung SDS	SDS-ACUTECH CO., Ltd.	50.0
Samsung SDS	ALS SDS Joint Stock Company	51.0
Samsung SDS	SDS-MP Logistics Joint Stock Company	51.0
Samsung SDS	Samsung SDS China Co., Ltd.	100.0
Samsung SDS	Samsung SDS Global SCL Hong Kong Limited	100.0
Samsung SDS	SAMSUNG SDS Global SCL Egypt	100.0
Samsung SDS	Samsung SDS Global SCL South Africa (PTY) Ltd.	100.0
Samsung SDS	Samsung SDS Global SCL Nakliyat ve Lojistik Anonim Sirketi	100.0
Samsung SDS	Samsung SDS Global Supply Chain Logistics Middle East DWC-LLC	100.0
Samsung SDS	Samsung SDS Latin America Tecnologia E Logistica LTDA.	99.7
Samsung SDS	INTE-SDS Logistics S.A. de C.V.	51.0
Samsung SDS	Samsung SDS Rus Limited Liability Company	100.0
Samsung SDS America, Inc.	Samsung SDS Mexico, S.A. DE C.V.	99.0
Samsung SDS America, Inc.	Samsung SDS Global SCL Panama S.A.	100.0
Samsung SDS America, Inc.	Samsung SDS Global SCL Chile Limitada	100.0
Samsung SDS America, Inc.	Samsung SDS Global SCL Peru S.A.C	100.0
Samsung SDS America, Inc.	Samsung SDS Global SCL Colombia S.A.S	100.0
Samsung SDS America, Inc.	Samsung SDS Latin America Tecnologia E Logistica LTDA.	0.3
Samsung SDS Europe, Ltd.	Samsung SDS Global SCL Netherlands Cooperatief U.A.	0.0
Samsung SDS Global SCL Netherlands Cooperatief U.A.	Samsung SDS Global SCL Poland Sp. Z.o.o.	0.0
Samsung SDS Global SCL Netherlands Cooperatief U.A.	Samsung SDS Global SCL Romania S.R.L	0.0
Samsung SDS Global SCL Netherlands Cooperatief U.A.	Samsung SDS Rus Limited Liability Company	0.0
Samsung E&A Co., Ltd	Samsung E&A America Inc.	100.0

Investor	Investee	Ownership
Samsung E&A Co., Ltd	Samsung Project Management Inc.	100.0
Samsung E&A Co., Ltd	Samsung E&A Hungary Co. Ltd.	100.0
Samsung E&A Co., Ltd	Samsung Engineering Italy S.R.L.	100.0
Samsung E&A Co., Ltd	Samsung E&A Malaysia SDN. BHD.	100.0
Samsung E&A Co., Ltd	PT Samsung Engineering Indonesia Co., Ltd.	100.0
Samsung E&A Co., Ltd	Samsung E&A (Thailand) Co., Ltd.	81.0
Samsung E&A Co., Ltd	Samsung E&A India Private Limited	100.0
Samsung E&A Co., Ltd	Samsung E&A Vietnam Co., Ltd.	100.0
Samsung E&A Co., Ltd	GLOBAL MODULE CENTER JOINT STOCK COMPANY	49.6
Samsung E&A Co., Ltd	Samsung Engineering Global Private Limited	100.0
Samsung E&A Co., Ltd	Samsung E&A Shanghai Co., Ltd.	100.0
Samsung E&A Co., Ltd	Samsung E&A Xi' an Co., Ltd.	100.0
Samsung E&A Co., Ltd	Samsung Saudi Arabia Co., Ltd.	100.0
Samsung E&A Co., Ltd	Muharrag Wastewater Services Company W.L.L.	99.8
Samsung E&A Co., Ltd	Muharrag STP Company B.S.C.	6.6
Samsung E&A Co., Ltd	Muharrag Holding Company 1 Ltd.	65.0
Samsung E&A Co., Ltd	SAMSUNG ENGINEERING NEC COMPANY LIMITED	60.0
Samsung E&A Co., Ltd	Samsung E&A Mexico S.A. de C.V.	99.9
Samsung E&A Co., Ltd	Samsung Engineering Trinidad Co., Ltd.	100.0
Samsung E&A Co., Ltd	Samsung Ingenieria Manzanillo, S.A. De C.V.	99.9
Samsung E&A Co., Ltd	Grupo Samsung E&A Mexico, S.A. De C.V. (GSIM)	100.0
Samsung E&A Co., Ltd	Samsung E&A Energia S.A. De C.V.	100.0
Samsung E&A Co., Ltd	Samsung E&A Bolivia S.A	100.0
Samsung E&A Co., Ltd	Samsung E&A DUBA S.A. De C.V.	100.0
Samsung E&A Co., Ltd	Samsung Engineering Kazakhstan L.L.P.	100.0
Samsung E&A America Inc.	Samsung E&A America Construction LLC	100.0
Samsung E&A America Inc.	Samsung E&A Louisiana Construction LLC	100.0
Samsung E&A Malaysia SDN. BHD.	Muharrag Wastewater Services Company W.L.L.	0.3
Samsung E&A India Private Limited	Samsung Engineering Global Private Limited	0.0
Samsung E&A India Private Limited	Samsung Saudi Arabia Co., Ltd.	0.0
Samsung Saudi Arabia Co., Ltd.	Samsung EPC Company Ltd.	75.0
Muharrag Holding Company 1 Ltd.	Muharrag Holding Company 2 Ltd.	100.0
Muharrag Holding Company 2 Ltd.	Muharrag STP Company B.S.C.	89.9
Samsung E&A DUBA S.A. De C.V.	Asociados Constructores DBNR, S.A. de C.V.	49.0
S1 Corporation	S-1 CORPORATION HUNGARY LLC	100.0
S1 Corporation	S-1 CORPORATION VIETNAM CO., LTD	100.0
S1 Corporation	Samsung Beijing Security Systems	100.0
Cheil Worldwide	Pengtai Greater China Company Limited	98.8
Cheil Worldwide	PENGTAI INTERACTIVE ADVERTISING CO.,LTD	100.0
Cheil Worldwide	Cheil USA Inc.	100.0
Cheil Worldwide	Cheil Central America Inc.	100.0
Cheil Worldwide	Iris Worldwide Holdings Limited	100.0
Cheil Worldwide	CHEIL EUROPE LIMITED	100.0
Cheil Worldwide	Cheil Germany GmbH	100.0
Cheil Worldwide	Cheil France SAS	100.0
Cheil Worldwide	CHEIL SPAIN S.L	100.0
Cheil Worldwide	Cheil Benelux B.V.	100.0
Cheil Worldwide	Cheil Nordic AB	100.0
Cheil Worldwide	Cheil India Private Limited	100.0
Cheil Worldwide	Cheil (Thailand) Ltd.	100.0
Cheil Worldwide	Cheil Singapore Pte. Ltd.	100.0
Cheil Worldwide	CHEIL VIETNAM COMPANY LIMITED	99.0
Cheil Worldwide	Cheil Integrated Marketing Philippines, Inc.	100.0
Cheil Worldwide	CHEIL MALAYSIA SDN. BHD.	100.0
Cheil Worldwide	Cheil New Zealand Limited	100.0
Cheil Worldwide	Cheil Worldwide Australia Pty Ltd	100.0

Investor	Investee	Ownership
Cheil Worldwide	CHEIL CHINA	100.0
Cheil Worldwide	Cheil Hong Kong Ltd.	100.0
Cheil Worldwide	Caishu (Shanghai) Business Consulting Co., Ltd	100.0
Cheil Worldwide	Cheil MEA FZ-LLC	100.0
Cheil Worldwide	Cheil South Africa (Pty) Ltd	100.0
Cheil Worldwide	CHEIL KENYA LIMITED	99.0
Cheil Worldwide	Cheil Communications Nigeria Ltd.	99.0
Cheil Worldwide	Cheil Worldwide Inc./Jordan LLC.	100.0
Cheil Worldwide	Cheil Ghana Limited	100.0
Cheil Worldwide	Cheil Egypt LLC	99.9
Cheil Worldwide	Cheil Maghreb LLC	100.0
Cheil Worldwide	Cheil Brasil Comunicacoes Ltda.	100.0
Cheil Worldwide	Cheil Mexico, S.A. de C.V.	98.0
Cheil Worldwide	Cheil Chile SpA.	100.0
Cheil Worldwide	Cheil Peru S.A.C.	100.0
Cheil Worldwide	CHEIL ARGENTINA S.A.	98.0
Cheil Worldwide	Cheil Rus LLC	100.0
Cheil Worldwide	Cheil Ukraine LLC	100.0
Cheil Worldwide	Cheil Kazakhstan LLC	100.0
Hotel Shilla	Samsung Hospitality America Inc.	100.0
Hotel Shilla	Shilla Travel Retail Pte. Ltd.	100.0
Hotel Shilla	Samsung Shilla Business Service Beijing Co., Ltd.	100.0
Hotel Shilla	Shilla Travel Retail Hong Kong Limited	100.0
HDC Shilla Duty Free LTD	HDC SHILLA (SHANGHAI) CO., LTD	100.0
SBTM	Samsung Hospitality U.K. Ltd.	100.0
SBTM	Samsung Hospitality Europe GmbH	100.0
SBTM	SAMSUNG HOSPITALITY ROMANIA SRL	100.0
SBTM	Samsung Hospitality Vietnam Co., Ltd.	99.0
SBTM	Samsung Hospitality Philippines Inc.	100.0
SBTM	Samsung Hospitality India Private Limited	100.0
Samsung Venture Investment	Samsung Venture Investment (Shanghai) Co., Ltd.	100.0
Iris Americas, Inc.	Iris (USA) Inc.	100.0
Iris Americas, Inc.	Iris Atlanta, Inc.	100.0
Iris Americas, Inc.	89 Degrees, Inc.	100.0
Cheil USA Inc.	The Barbarian Group LLC	100.0
Cheil USA Inc.	McKinney Ventures LLC	100.0
Cheil USA Inc.	Cheil India Private Limited	0.0
Cheil USA Inc.	Cheil Mexico, S.A. de C.V.	2.0
Iris Worldwide Holdings Limited	Iris Nation Worldwide Limited	100.0
Iris Nation Worldwide Limited	Iris Americas, Inc.	100.0
Iris Nation Worldwide Limited	Irisnation Latina No.2, S. de R.L. de C.V.	100.0
Iris Nation Worldwide Limited	Irisnation Latina, S. de R.L. de C.V.	100.0
Iris Nation Worldwide Limited	Pricing Solutions Ltd	100.0
Iris Nation Worldwide Limited	Iris London Limited	100.0
Iris Nation Worldwide Limited	Iris Promotional Marketing Ltd	100.0
Iris Nation Worldwide Limited	Iris Ventures 1 Limited	100.0
Iris Nation Worldwide Limited	Founded Partners Limited	100.0
Iris Nation Worldwide Limited	Iris Digital Limited	100.0
Iris Nation Worldwide Limited	Iris Amsterdam B.V.	100.0
Iris Nation Worldwide Limited	Iris Ventures (Worldwide) Limited	100.0
Iris Nation Worldwide Limited	WDMP Limited	49.0
Iris Nation Worldwide Limited	Iris Services Limited Doool Skopje	100.0
Iris Nation Worldwide Limited	Irisnation Singapore Pte. Ltd.	100.0
Iris Nation Worldwide Limited	Iris Worldwide Integrated Marketing Private Limited	100.0
Iris Nation Worldwide Limited	Iris Worldwide (Thailand) Limited	100.0
Iris London Limited	Iris Partners LLP	100.0



Investor	Investee	Ownership
Iris Promotional Marketing Ltd	Holdings BR185 Limited	100.0
Iris Ventures 1 Limited	Iris Germany GmbH	100.0
Founded Partners Limited	Founded, Inc.	100.0
Iris Germany GmbH	Pepper NA, Inc.	100.0
CHEIL EUROPE LIMITED	Beattie McGuinness Bungay Limited	100.0
CHEIL EUROPE LIMITED	Cheil Italia S.r.l	100.0
Cheil Germany GmbH	Cheil Austria GmbH	100.0
Cheil Germany GmbH	Centrade Integrated SRL	100.0
Centrade Integrated SRL	Centrade Cheil HU Kft.	100.0
Centrade Integrated SRL	Centrade Cheil Adriatic D.O.O.	100.0
Cheil India Private Limited	Experience Commerce Software Private Limited	100.0
Cheil Singapore Pte. Ltd.	PT. CHEIL WORLDWIDE INDONESIA	100.0
Cheil Integrated Marketing Philippines, Inc.	Cheil Philippines Inc.	30.0
Shilla Travel Retail Pte. Ltd.	Shilla Retail Plus Pte. Ltd.	100.0
Samsung Shilla Business Service Beijing Co., Ltd.	Tianjin Samsung International Travel Service Co., Ltd	100.0
Shilla Travel Retail Hong Kong Limited	Shilla Retail Limited	100.0
Shilla Travel Retail Hong Kong Limited	BNY Trading Hong Kong Limited	100.0
Cheil MEA FZ-LLC	One Agency FZ-LLC	100.0
Cheil MEA FZ-LLC	One RX Project Management Design and Production Limited Company	0.0
Cheil MEA FZ-LLC	Cheil Egypt LLC	0.1
Cheil South Africa (Pty) Ltd	CHEIL KENYA LIMITED	1.0
Cheil South Africa (Pty) Ltd	Cheil Communications Nigeria Ltd.	1.0
One Agency FZ-LLC	ONE RETAIL EXPERIENCE KOREA LIMITED	100.0
One Agency FZ-LLC	One RX India Private Limited	100.0
One Agency FZ-LLC	One RX Project Management Design and Production Limited Company	100.0
One Agency FZ-LLC	ONE RX INTERIOR DECORATION L.L.C	100.0
One Agency FZ-LLC	ONE AGENCY PRINTING L.L.C	100.0
ONE RX INTERIOR DECORATION L.L.C	One RX India Private Limited	0.0
Holdings BR185 Limited	Brazil 185 Participacoes Ltda	100.0
Brazil 185 Participacoes Ltda	Iris Router Marketing Ltda	100.0
Cheil Brasil Comunicacoes Ltda.	CHEIL ARGENTINA S.A.	2.0

※ Percent of ownership as of June 30, 2024 based on common shares

### C. Related statute & regulation

Restrictions on cross-holdings within Samsung Group in accordance with the Monopoly Regulation and Fair Trade Act

(1) Date of announcement by authorities of companies deemed Samsung Group companies for the current year:  
May 14, 2024

(2) Summary of Regulation

- Restriction on cross-holdings
- Restriction on debt guarantee between affiliates
- Restriction on affiliate voting rights of financial & insurance companies
- Decision making of board committee and public disclosure of large-scale inter-affiliate transactions
- Public disclosure of important matters of unlisted companies
- Public disclosures of large enterprise group and others

### D. Concurrent position with other affiliates

[As of June 30, 2024]

		Concurrent position		
Name	Position	Name of company	Position	Full/part time
Keun-sung Yook	Executive VP	Samsung Electronics Sales	Auditor	Part time
Sung-wook Kim	Executive VP	Samsung Electronics Sales	Non-Executive director	Part time
Sung-wuk Kang	VP	Samsung Electronics Logitech	Auditor	Part time
Kyung-in Nam	VP	Samsung Electronics Logitech	Non-Executive director	Part time
Jae-yoon Ko	Executive VP	Samsung Electronics Service	Auditor	Part time
Heoung-min Jang	VP	Samsung Electronics Service	Non-Executive director	Part time
Kyu-tae Yoo	Executive VP	Samsung Medison	CEO	Full time
Jae-hyeon Shim	Executive VP	Samsung Medison	Auditor	Part time
Soon-cheol Park	Executive VP	Samsung Venture Investment Corp.	Auditor	Part time
Han-jong Yoo	VP	Samsung Global Research	Auditor	Part time
Jae-kyun Oh	Executive VP	Samsung Display	Auditor	Part time
Khi-jae Cho	Executive VP	SEMES	Auditor	Part time
Hee-don Hwang	Executive VP	SEMES	Non-Executive director	Part time
Doug-yong Sung	Executive VP	SEMES	Non-Executive director	Part time
Jong-hoon Oh	Executive VP	STECO	Auditor	Part time
Dong-wook Park	VP	STECO	Non-Executive director	Part time
Yong-deok Jeong	VP	Mirero System	Non-Executive director	Part time

## E. Equity investments in other corporations

The total book value of equity investments in other corporations as of June 30, 2024 is KRW 59,741.4 billion (for the purpose of management participation, etc.)

(As of June 30, 2024)

(KRW Million)

Investment Purpose	No. of investees			Invested amount			Ending Balance
	Listed	Unlisted	Total	Beginning Balance	Increase(decrease)		
					Acquisition (Disposal)	Valuation gain(loss)	
Management Participation	20	80	100	59,178,554	159,079	331,491	59,669,124
General Investment	-	-	-	-	-	-	-
Simple Investment	4	31	35	68,388	-1	3,916	72,303
Total	24	111	135	59,246,942	159,078	335,407	59,741,427

## X. Transactions with Affiliates and Subsidiaries

### 1. Credit offerings for affiliates and subsidiaries

As of June 30, 2024, SEC provides a debt guarantee for financing of subsidiaries, including Samsung Electronics America, Inc. (SEA) and other subsidiaries as listed below

(USD thousand)

Company	Relation	Creditor	Type	Purpose	Guarantee start date	Guarantee expiry date	Limit of guarantee		Transactions			Interest Rate (%)
							Period start	Period end	Period start	Change	Period end	
SEA	Affiliate	BOA, etc.	Payment guarantee	Operating fund	Nov 09, 2023	Jun 13, 2025	1,278,000	1,278,000	-	-	-	
SEM	Affiliate	BBVA, etc.	Payment guarantee	Operating fund	Aug 20, 2023	Jun 13, 2025	715,000	715,000	-	-	-	
SAMCOL	Affiliate	Citibank, etc.	Payment guarantee	Operating fund	Nov 09, 2023	Jun 13, 2025	210,000	210,000	-	-	-	
SEDA	Affiliate	BRADESCO, etc.	Payment guarantee	Operating fund	Oct 01, 2023	Jun 13, 2025	329,000	329,000	-	-	-	
SECH	Affiliate	Citibank, etc.	Payment guarantee	Operating fund	Dec 17, 2023	Jun 13, 2025	62,000	64,000	-	-	-	
SEPR	Affiliate	BBVA, etc.	Payment guarantee	Operating fund	Dec 17, 2023	Jun 13, 2025	150,000	150,000	-	-	-	
SSA	Affiliate	SCB, etc.	Payment guarantee	Operating fund	Nov 09, 2023	Jun 13, 2025	318,000	318,000	-	-	-	
SEMAG	Affiliate	SocGen, etc.	Payment guarantee	Operating fund	Nov 09, 2023	Dec 16, 2024	96,000	96,000	8,065	-8,065	-	
SETK	Affiliate	BNP, etc.	Payment guarantee	Operating fund	Nov 09, 2023	Jun 13, 2025	917,000	947,000	320,893	175,565	496,458	47.0%
SETK-P	Affiliate	BNP, etc.	Payment guarantee	Operating fund	Nov 09, 2023	Dec 16, 2024	70,000	70,000	-	-	-	
SECE	Affiliate	Citibank	Payment guarantee	Operating fund	Dec 17, 2023	Dec 16, 2024	114,000	114,000	-	-	-	
SEEG	Affiliate	HSBC, etc.	Payment guarantee	Operating fund	Jun 14, 2024	Jun 13, 2025	85,000	85,000	-	-	-	
SEIN	Affiliate	BNP, etc.	Payment guarantee	Operating fund	Nov 09, 2023	Jun 13, 2025	70,000	70,000	-	-	-	
SJC	Affiliate	Mizuho Bank, etc.	Payment guarantee	Operating fund	Nov 09, 2023	May 31, 2025	835,508	802,532	-	-	-	
SEUC	Affiliate	Credit Agricole, etc.	Payment guarantee	Operating fund	Nov 09, 2023	Jun 13, 2025	125,000	125,000	-	-	-	
SEDAM	Affiliate	Citibank, etc.	Payment guarantee	Operating fund	Nov 09, 2023	Jun 13, 2025	537,000	537,000	-	-	-	
SECA	Affiliate	BOA	Payment guarantee	Operating fund	Nov 09, 2023	Nov 08, 2024	70,000	70,000	-	-	-	
SELA	Affiliate	Citibank	Payment guarantee	Operating fund	Dec 17, 2023	Dec 16, 2024	60,000	60,000	-	-	-	
SEEH	Affiliate	HSBC, etc.	Payment guarantee	Operating fund	Sep 06, 2023	Jun 13, 2025	888,400	856,400	-	-	-	
SELV	Affiliate	Citibank	Payment guarantee	Operating fund	Dec 17, 2023	Dec 16, 2024	10,000	10,000	-	-	-	
SEIL	Affiliate	Citibank	Payment guarantee	Operating fund	Dec 17, 2023	Dec 16, 2024	15,600	15,600	-	-	-	
SAPL	Affiliate	BOA, etc.	Payment guarantee	Operating fund	Nov 09, 2023	Jun 13, 2025	404,000	404,000	-	-	-	
SAVINA	Affiliate	HSBC	Payment guarantee	Operating fund	Jun 14, 2024	Jun 13, 2025	51,000	51,000	-	-	-	
SCIC	Affiliate	HSBC, etc.	Payment guarantee	Operating fund	Dec 17, 2023	Jun 13, 2025	270,000	270,000	-	-	-	
SESP	Affiliate	SCB	Payment guarantee	Operating fund	Nov 09, 2023	Nov 08, 2024	30,000	30,000	-	-	-	
SME	Affiliate	SCB	Payment guarantee	Operating fund	Nov 09, 2023	Nov 08, 2024	110,000	110,000	-	-	-	
SAMEX	Affiliate	Citibank	Payment guarantee	Operating fund	Dec 17, 2023	Dec 16, 2024	5,000	5,000	-	-	-	
SEASA	Affiliate	Citibank	Payment guarantee	Operating fund	Dec 17, 2023	Dec 16, 2024	2,000	2,000	-	-	-	
SSAP	Affiliate	SCB	Payment guarantee	Operating fund	Nov 09, 2023	Nov 08, 2024	35,000	35,000	-	-	-	
SEPM	Affiliate	HSBC	Payment guarantee	Operating fund	Jun 14, 2024	Jun 13, 2025	35,000	35,000	-	-	-	
SESAR	Affiliate	HSBC	Payment guarantee	Operating fund	Jun 14, 2024	Jun 13, 2025	20,000	20,000	-	-	-	
SEUZ	Affiliate	Citibank	Payment guarantee	Operating fund	Dec 17, 2023	Dec 16, 2024	10,000	10,000	-	-	-	

Company (relation)	Creditor	Type	Purpose	Guarantee start date	Guarantee expiry date	Limit of guarantee		Transactions			Interest Rate (%)
						Period start	Period end	Period start	Change	Period end	
AdGear Technologies Inc. (affiliate)	BOA	Payment guarantee	Operating fund	Nov 09, 2023	Nov 08, 2024	2,000	2,000	-	-	-	
Harman International Industries, Inc. (affiliate)	JP Morgan	Payment guarantee	Operating fund	Jun 14, 2023	Jun 13, 2024	100,000	100,000	-	-	-	
Harman International Japan Co., Ltd. (affiliate)	MUFG	Payment guarantee	Operating fund	Nov 09, 2023	Nov 08, 2024	25,000	25,000	-	-	-	
Harman Holding Limited (affiliate)	HSBC	Payment guarantee	Operating fund	Jun 14, 2023	Jun 13, 2024	30,000	30,000	-	-	-	
Harman do Brasil Industria Eletronica e Participacoes Ltda. (affiliate)	SocGen	Payment guarantee	Operating fund	Nov 09, 2023	Nov 08, 2024	15,000	15,000	-	-	-	
Harman da Amazonia Industria Eletronica e Participacoes Ltda. (affiliate)											
Harman International Industries Limited (affiliate)	HSBC	Payment guarantee	Operating fund	Jun 14, 2023	Jun 13, 2024	30,000	30,000	-	-	-	
Total						8,129,508	8,096,532	328,958	167,500	496,458	

Separate basis.

The approval decision is resolved by the Management Committee when the guarantee amount per transaction is between 0.1% and/or less than 2.5%, and by the Board of Directors when the guarantee amount per transaction is 2.5% and above.

SEC receives fees on the debt it guarantees depending on the maturity date of each debt guarantee, general loan interest rate, etc. SEC claimed approximately USD 2,141 thousand in guarantee fees in 2023, and it received the fees in 2024.

## 2. Acquisitions and disposals of assets with affiliates and subsidiaries

In 1H24, the Company sold assets to affiliates, including Samsung Electronics Suzhou Semiconductor Co., Ltd. (SESS), to increase production capacity of such affiliates. Also, the Company acquired assets including facility equipment from affiliates to improve production efficiency.

(KRW mil)

Company	Relationship	Transaction type	Transaction date <sup>1)</sup>	Asset	Purpose of transaction	Amount <sup>2)</sup>	Gain or loss on disposal
SESS	Affiliate	Asset sale/purchase	Jun 10, 2024	Machinery, etc.	Enhance capacity and production efficiency	10,389	288
SCS	Affiliate	Asset sale/purchase	Apr 2, 2024	Machinery, etc.	Enhance capacity and production efficiency	8,679	7,669
SEVT	Affiliate	Asset sale/purchase	Jun 28, 2024	Machinery, etc.	Enhance capacity and production efficiency	4,213	26
SII	Affiliate	Asset sale	Feb 15, 2024	Machinery, etc.	Enhance capacity and production efficiency	1,753	60
SEHC	Affiliate	Asset sale	Apr 16, 2024	Machinery, etc.	Enhance capacity and production efficiency	268	-12
SSEC	Affiliate	Asset sale	Apr 14, 2024	Machinery, etc.	Enhance capacity and production efficiency	250	2
SEDA	Affiliate	Asset sale	Apr 23, 2024	Machinery, etc.	Enhance capacity and production efficiency	149	-
SEV	Affiliate	Asset purchase	Jan 17, 2024	Machinery, etc.	Enhance capacity and production efficiency	132	-
Samsung Biologics	Affiliate	Asset sale	Feb 28, 2024	Vehicle and delivery equipment.	Enhance asset efficiency	122	-14

Separate basis

The above acquisition and disposal transactions of assets are not subject to the Board's approval.

1) Most recent transaction.

2) Properly calculated by an appropriate method based upon market value assessment. Transaction was made under normal conditions (e.g., terms of cash payment within the 15th, 30th of the following month of transaction).

Transactions worth less than KRW 100 million were excluded according to Corporate Disclosure Guidelines.

### 3. Business transactions with affiliates and subsidiaries

In 1H24, the Company had transactions (e.g., sales and purchases) with affiliates, including Samsung International, Inc. (SII).

(KRW mil)

Company	Relationship	Transaction type	Transaction date	Details	Amount
SSI	Affiliate	Sales, purchases, etc.	2024.01~2024.06	Semiconductor, etc.	16,352,019
SEA	Affiliate	Sales, purchases, etc.	2024.01~2024.06	Smartphone, consumer electronics, etc.	15,336,116
SSS	Affiliate	Sales, purchases, etc.	2024.01~2024.06	Semiconductor, etc.	15,258,331
SEVT	Affiliate	Sales, purchases, etc.	2024.01~2024.06	Smartphone, etc.	13,880,504

Separate basis

Transactions worth 5% and above of revenue of the current business year are subject to public disclosure.

### 4. Transactions with stakeholders other than affiliates and subsidiaries

As of June 30, 2024, the Company's outstanding loan amount is KRW 138.1 billion related to support for supplier companies for product competitiveness and mutual development as well as home loan and educational expenses for employee welfare.

(KRW mil)

Company	Relationship	Account title	Loans		
			Transaction		
			Beginning of period	Change	End of period
Elentec Co., Ltd., etc.	Partner company and employee	Short-term loans	46,069	-483	45,586
Daeduk Elec., etc.	Partner company and employee	Long-term loans	89,253	3,252	92,505
Total			135,322	2,769	138,091

Separate basis; amounts reflect the discounted present value of debts before accounting for impaired debts (impairment losses).

## XI. Other Information

### 1. Changes in public disclosure

- N/A

### 2. Contingent liabilities

#### 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.

Samsung Electronics and its spun-off companies, including SDC, are liable to fulfill in solidarity the debts of SDC which relate to the periods prior to SDC's separation from the Company.

For information related to other contingent liabilities and commitments, see retained earnings in 『3. Notes to consolidated financial statements』 and 『5. Notes to non-consolidated financial statements』 in 『III. Financial Affairs』.

#### B. Guarantees

(USD thousand)

Company	Relation	Creditor	Type	Purpose	Guarantee start date	Guarantee end date	Limit of guarantee		Transactions			Interest rate
							Period start	Period end	Period start	Change	Period end	
SEA	Affiliate	BOA, etc.	Payment guarantee	Operating fund	Nov 09, 2023	Jun 13, 2025	1,278,000	1,278,000	-	-	-	
SEM	Affiliate	BBVA, etc.	Payment guarantee	Operating fund	Aug 20, 2023	Jun 13, 2025	715,000	715,000	-	-	-	
SAMCOL	Affiliate	Citibank, etc.	Payment guarantee	Operating fund	Nov 09, 2023	Jun 13, 2025	210,000	210,000	-	-	-	
SEDA	Affiliate	BRADESCO, etc.	Payment guarantee	Operating fund	Oct 01, 2023	Jun 13, 2025	329,000	329,000	-	-	-	
SECH	Affiliate	Citibank, etc.	Payment guarantee	Operating fund	Dec 17, 2023	Jun 13, 2025	62,000	64,000	-	-	-	
SEPR	Affiliate	BBVA, etc.	Payment guarantee	Operating fund	Dec 17, 2023	Jun 13, 2025	150,000	150,000	-	-	-	
SSA	Affiliate	SCB, etc.	Payment guarantee	Operating fund	Nov 09, 2023	Jun 13, 2025	318,000	318,000	-	-	-	
SEMAG	Affiliate	SocGen, etc.	Payment guarantee	Operating fund	Nov 09, 2023	Dec 16, 2024	96,000	96,000	8,065	-8,065	-	
SETK	Affiliate	BNP, etc.	Payment guarantee	Operating fund	Nov 09, 2023	Jun 13, 2025	917,000	947,000	320,893	175,565	496,458	47.0%
SETK-P	Affiliate	BNP, etc.	Payment guarantee	Operating fund	Nov 09, 2023	Dec 16, 2024	70,000	70,000	-	-	-	
SECE	Affiliate	Citibank	Payment guarantee	Operating fund	Dec 17, 2023	Dec 16, 2024	114,000	114,000	-	-	-	
SEEG	Affiliate	HSBC	Payment guarantee	Operating fund	Jun 14, 2024	Jun 13, 2025	85,000	85,000	-	-	-	
SEIN	Affiliate	BNP, etc.	Payment guarantee	Operating fund	Nov 09, 2023	Jun 13, 2025	70,000	70,000	-	-	-	
SJC	Affiliate	Mizuho Bank, etc.	Payment guarantee	Operating fund	Nov 09, 2023	May 31, 2025	835,508	802,532	-	-	-	
SEUC	Affiliate	Credit Agricole, etc.	Payment guarantee	Operating fund	Nov 09, 2023	Jun 13, 2025	125,000	125,000	-	-	-	
SEDAM	Affiliate	Citibank, etc.	Payment guarantee	Operating fund	Nov 09, 2023	Jun 13, 2025	537,000	537,000	-	-	-	
SECA	Affiliate	BOA	Payment guarantee	Operating fund	Nov 09, 2023	Nov 08, 2024	70,000	70,000	-	-	-	
SELA	Affiliate	Citibank	Payment guarantee	Operating fund	Dec 17, 2023	Dec 16, 2024	60,000	60,000	-	-	-	

SEEH	Affiliate	HSBC, etc.	Payment guarantee	Operating fund	Sep 06, 2023	Jun 13, 2025	888,400	856,400	-	-	-	-
SELV	Affiliate	Citibank	Payment guarantee	Operating fund	Dec 17, 2023	Dec 16, 2024	10,000	10,000	-	-	-	-
SEIL	Affiliate	Citibank	Payment guarantee	Operating fund	Dec 17, 2023	Dec 16, 2024	15,600	15,600	-	-	-	-
SAPL	Affiliate	BOA, etc.	Payment guarantee	Operating fund	Nov 09, 2023	Jun 13, 2025	404,000	404,000	-	-	-	-
SAVINA	Affiliate	HSBC	Payment guarantee	Operating fund	Jun 14, 2024	Jun 13, 2025	51,000	51,000	-	-	-	-
SCIC	Affiliate	HSBC, etc.	Payment guarantee	Operating fund	Dec 17, 2023	Jun 13, 2025	270,000	270,000	-	-	-	-
SESP	Affiliate	SCB	Payment guarantee	Operating fund	Nov 09, 2023	Nov 08, 2024	30,000	30,000	-	-	-	-
SME	Affiliate	SCB	Payment guarantee	Operating fund	Nov 09, 2023	Nov 08, 2024	110,000	110,000	-	-	-	-
SAMEX	Affiliate	Citibank	Payment guarantee	Operating fund	Dec 17, 2023	Dec 16, 2024	5,000	5,000	-	-	-	-
SEASA	Affiliate	Citibank	Payment guarantee	Operating fund	Dec 17, 2023	Dec 16, 2024	2,000	2,000	-	-	-	-
SSAP	Affiliate	SCB	Payment guarantee	Operating fund	Nov 09, 2023	Nov 08, 2024	35,000	35,000	-	-	-	-
SEPM	Affiliate	HSBC	Payment guarantee	Operating fund	Jun 14, 2024	Jun 13, 2025	35,000	35,000	-	-	-	-
SESAR	Affiliate	HSBC	Payment guarantee	Operating fund	Jun 14, 2024	Jun 13, 2025	20,000	20,000	-	-	-	-
SEUZ	Affiliate	Citibank	Payment guarantee	Operating fund	Dec 17, 2023	Dec 16, 2024	10,000	10,000	-	-	-	-

(USD thousand)

Company (relation)	Creditor	Type	Purpose	Guarantee start date	Guarantee expiry date	Limit of Guarantee		Transactions			Interest rate
						Period start	Period end	Period start	Change	Period end	
AdGear Technologies Inc. (affiliate)	BOA	Payment guarantee	Operating fund	Nov 09, 2023	Nov 08, 2024	2,000	2,000	-	-	-	-
Harman International Industries, Inc. (affiliate)	JP Morgan	Payment guarantee	Operating fund	Jun 14, 2023	Jun 13, 2024	100,000	100,000	-	-	-	-
Harman International Japan Co., Ltd. (affiliate)	MUFG	Payment guarantee	Operating fund	Nov 09, 2023	Nov 08, 2024	25,000	25,000	-	-	-	-
Harman Holding Limited (affiliate)	HSBC	Payment guarantee	Operating fund	Jun 14, 2023	Jun 13, 2024	30,000	30,000	-	-	-	-
Harman do Brasil Industria Eletronica e Participacoes Ltda. (affiliate)	SocGen	Payment guarantee	Operating fund	Nov 09, 2023	Nov 08, 2024	15,000	15,000	-	-	-	-
Harman da Amazonia Industria Eletronica e Participacoes Ltda. (affiliate)											
Harman International Industries Limited (affiliate)	HSBC	Payment guarantee	Operating fund	Jun 14, 2023	Jun 13, 2024	30,000	30,000	-	-	-	-
SDN (affiliate)	SIEL	Payment guarantee	Operating fund, etc.	Nov 22, 2021	Feb 19, 2026	601,149	599,118	510,977	-1,727	509,250	8.1%
SAS (affiliate)	Epcor	Payment guarantee	Operating fund, etc.	Apr 26, 2022	Debt expiry date	340,000	340,000	-	-	-	-
Total						9,070,657	9,035,650	839,935	165,773	1,005,708	

Consolidated basis.

Debt guarantees for SDN are provided by SDC, SAS by SEA.

SEC requires Board approval for individual guarantees exceeding 2.5% of total equity; the approval decision is delegated to the Management Committee when the guarantee amount is between 0.1% and/or less than 2.5%.

SDC requires Board approval for individual guarantees over KRW 10,000 million. In 2023, the Company claimed approximately USD 2,141,000 in guarantee fees, and it received the fees in 2024.

In 2023, Samsung Display Co., Ltd. claimed approximately USD 3,066,000 in guarantee fees to SDN, and it received the fees in 2024.



### 3. Sanctions and others

#### A. Sanctions of investigative and judicial agencies

[Summary]

(KRW mil)

Date	Agency	Subject	Punishment or measure	Amount of monetary sanction	Amount of embezzlement/breach of trust	Relevant laws
Jul 7, 2022	Gwangju District Court	Employees of SEC	Fine	6	-	Article 33 Paragraph 7, Article 34, Article 18 Paragraph 1, etc., of the Environmental Testing and Inspection Act
Feb 9, 2023	Gwangju District Court	SEC and Employees of SEC	Fine	25	-	Article 10 Paragraph 1 of the former Occupational Safety and Health Act, Article 57 Paragraph 1 of the Occupational Safety and Health Act, etc.

On January 20, 2021, the Suncheon Branch of Gwangju District Court ordered SEC employees A (11 service years) and B (8 service years) to pay a fine of KRW 3 million each for violating Article 18, etc., of the Environmental Testing and Inspection Act, and on July 7, 2022 at the retrial, the Gwangju District Court dismissed the appeal. To prevent recurrence, the Company is conducting regular cross measurement, etc.

On February 9, 2023, the Gwangju District Court issued a summary order against SEC and five SEC employees for violations of Article 10 Paragraph 1 of the former Occupational Safety, Health Act, Article 57 Paragraph 1 of the Occupational Safety and Health Act, etc. Neither the Company nor the five employees applied for a formal trial, thus resulting in the confirmation of the summary order (with fine of KRW 15 million for SEC and KRW 2 million for each employee), and the Company has subsequently paid the fine. As part of SEC's efforts to prevent recurrence of such issues, the Company has provided special education for Environmental Safety Managers and Supervisors to ensure compliance with the relevant regulations.

## B. Sanctions of administrative agencies

### (1) Sanctions of Fair Trade Commission (FTC)

[Summary]

(KRW mil)

Date	Agency	Subject	Punishment or measure	Amount of monetary sanction	Reasons and relevant laws
Jun 22, 2021	FTC	SEC and employees of SEC	Prosecution charge	-	Article 23 (Prohibition on Unfair Trade Practices) Paragraph 1 Subparagraph 7 of the Monopoly Regulation and Fair Trade Act
Aug 27, 2021	FTC	SEC	Corrective measure, penalty surcharge	101,217	Article 23 (Prohibition on Unfair Trade Practices) Paragraph 1 Subparagraph 7 of the Monopoly Regulation and Fair Trade Act
		Subsidiary (Samsung Display)	Corrective measure, penalty surcharge	22,857	Article 23 (Prohibition on Unfair Trade Practices) Paragraph 1 Subparagraph 7 of the Monopoly Regulation and Fair Trade Act
Mar 17, 2022	FTC	Employees of SEC	Warning	-	Article 31 (Designation of Business Groups Subject to Limitations on Cross Shareholding) Paragraph 4 of the Monopoly Regulation and Fair Trade Act
Jun 27, 2022	FTC	SEC	Fine	10	Article 5 (Duty to Prepare Agency Transaction Contract) Paragraph 1 of the Fair Agency Transactions Act
Apr 7, 2024	FTC	SEC	Corrective measure	-	Article 10 (Prohibition on Interference with Management Activities) Paragraph 1 of the Fair Agency Transactions Act

On June 22, 2021, the Fair Trade Commission, regarding matters related to food service transactions with Samsung Welstory, filed a complaint against SEC and the former Head of Future Strategy Office (Gee-sung Choi; retired) for violating Article 23 (Prohibition on Unfair Trade Practices) Paragraph 1 Subparagraph 7 of the Monopoly Regulation and Fair Trade Act.

On August 27, 2021, the Fair Trade Commission, regarding matters related to food service transactions with Samsung Welstory, issued corrective measures and ordered Samsung Electronics and Samsung Display to pay penalties (SEC: KRW 101.217 billion; SD: 22.857 billion) for violating Article 23 Paragraph 1 Subparagraph 7 of the Act of the Monopoly Regulation and Fair Trade Act. The administrative litigation against the disposition is in progress, and on January 27, 2022, the decision to suspend the execution of the corrective measures was finalized.

To prevent recurrences and comply with the relevant law, Samsung Electronics Service CS has strengthened its internal management standard, including adding more people in charge.

On March 17, 2022, the Fair Trade Commission issued a warning against SEC's Vice Chairman Jae-yong Lee for omitting three companies—Balbec KPL Korea, Balbec KPL Partners, and Balbec KPL Asset Management—controlled by an Independent Director of Samsung Card from the affiliate list of Samsung, a business group subject to limitations on cross shareholding, when submitting materials in 2018 and 2019 pursuant to Article 31 Paragraph 4.

On June 27, 2022, the Fair Trade Commission ordered the Company to pay a fine of KRW 10 million for violating Article 5 (Duty to Prepare Agency Transaction Contract) Paragraph 1 of the Fair Agency Transactions Act, and the Company is in the middle of a procedure to object to the order.

On April 7, 2024, the Fair Trade Commission issued a corrective order against the Company for violating Article 10 (Prohibition on Interference with Management Activities) Paragraph 1 of the Fair Agency Transactions Act and Article 7 Subparagraph 2 (Requesting an agency to provide information that constitutes business secrets) of the Enforcement Decree of the same Act.

To comply with the Monopoly Regulation and Fair Trade Act, the Act on Fair Labeling and Advertising, Fair Agency Transactions Act, and relevant laws, the Company has strengthened its internal management standard and is providing relevant prevention education for executives and employees.

(2) Sanctions of other administrative or public agencies (including financial supervision and tax authorities)

[Summary]

(KRW mil)

Date	Agency	Subject	Punishment or measure	Amount of monetary sanction	Reasons and relevant laws
Oct 13, 2022	City of Gwangju	SEC (Gwangju site)	Fine	3.2	Article 39 Paragraph 1 of the Clean Air Conservation Act
Dec 14, 2022	Ministry of Environment	SEC (Overall domestic operations)	Fine	2.0	Article 17 Paragraph 2 of the Act on the Allocation and Trading of Greenhouse-gas Emission Permits
Dec 22, 2022	Ministry of Environment	SEC (Gwangju site)	Fine	1.6	Article 31 Paragraph 1 Subparagraph 1 of the Clean Air Conservation
Dec 23, 2022	Ministry of Employment and Labor	SEC (Gwangju site)	Fine	0.08	Article 37 Paragraph 1 of the Occupational Safety And Health Act
Jan 16, 2023	Ministry of Employment and Labor	SEC (Gwangju site)	Fine	0.16	Article 37 Paragraph 1, Article 115 Paragraph 2 of the Occupational Safety And Health Act
Apr 21, 2022	Ministry of Employment and Labor	SEC (Onyang site)	Fine	0.6	Article 46 Paragraph 1 of the Occupational Safety And Health Act
Aug 16, 2023	Gumi Fire Station	SEC (Gumi site)	Fine	-	Article 5 Paragraph 1, Article 6 Paragraph 1 of the Safety Control Of Hazardous Substances Act
Aug 18, 2023	Personal Information Protection Commission	SEC	Penalty	875.6	Article 29 of the Personal Information Protection Act and Article 48-2 Paragraph 1 Subparagraph 2 of the Enforcement Decree of the same Act
			Fine	2.4	
Aug 23, 2023	City of Gwangju	SEC (Gwangju site)	Fine	2.0	Article 31 Paragraph 2 of the Clean Air Conservation Act
Sep 4, 2023	Ministry of Trade, Industry and Energy	Subsidiary (Samsung Display)	Order to Take Training Course (2 persons)	-	Article 19, Article 31, Article 49 of the Foreign Trade Act

Pursuant to the regular assessment of the implementation of a PSM system at the Onyang site by the Ministry of Employment and Labor from February 21–23, 2022, the rating went up by one stage, but the Company was ordered to pay a fine of KRW

0.6 million for violating Article 46 (Implementation of Process-Safety Reports) Paragraph 1 of the Occupational Safety and Health Act on April 21, 2022 and has subsequently paid the fine. The Company took measures regarding the violations above and submitted a report on improvements to the Ministry of Employment and Labor. We also established a PSM Innovation Organization and a PSM Management System which manages activities related to approval, design, 12 key tasks, expertise improvement, etc. We also foster development of on-site process safety experts and conduct voluntary process safety evaluation.

On July 7, 2022, the Gwangju District Court ruled that two employees of the Company had violated Article 18, etc., of the Environmental Testing and Inspection Act, and on October 13, 2022, the City of Gwangju levied a fine of KRW 3.2 million for violating Article 39 (Self-Measurement) Paragraph 1 of the Clean Air Conservation Act concerning the record of the results of self-measurement of air pollutants, and the Company subsequently paid the fine.

To enhance credibility of measurements, the Company conducts regular cross measurements, etc.

Pursuant to the results of the inspection of the air pollution prevention facilities on the Gwangju site by the Ministry of Environment on November 28–29, 2022, the Company was ordered to pay a fine of KRW 1.6 million for violating Article 31 (Operation of Emission Facilities and Prevention Facilities) Paragraph 1 of the Clean Air Conservation Act on December 22, 2022, and it has subsequently paid the fine.

To prevent the recurrence and strengthen compliance, the Company has strengthened inspection of the air pollution prevention facilities.

On December 14, 2022, the Ministry of Environment ordered the Company to pay a fine of KRW 2 million for violating Article 17 (Revocation of Allocation of Emission Permits) Paragraph 2 of the Act on the Allocation and Trading of Greenhouse-gas Emission Permits, and the Company has subsequently paid the fine. To prevent the recurrence and strengthen compliance, the Company has strengthened management of greenhouse-gas emitting facilities.

Pursuant to the results of the inspection of the Occupational Safety and Health Management on the Gwangju site by the Ministry of Employment and Labor on December 19–21, 2022, the Company was ordered to pay a fine of KRW 80 thousand for violating Article 37 (Installation and Affixing of Safety and Health Signs) Paragraph 1 of the Occupational Safety and Health Act on December 23, 2022, and it has subsequently paid the fine. Also, pursuant to the results of the inspection of the Occupational Safety and Health Management on the Gwangju site by the Ministry of Employment and Labor on January 9–11, 2023, the Company was ordered to pay a fine of KRW 160,000 for violating Article 115 (Warnings on Containers of Substances Subject to Material Safety Data Preparation) Paragraph 1 and Article 37 (Installation and Affixing of Safety and Health Signs) Paragraph 1 of the Occupational Safety and Health Act on January 16, 2023, and it has subsequently paid the fine. To prevent the recurrence and strengthen compliance, the Company has strengthened monitoring of the installation and affixing of safety signs.

On August 16, 2023, the Gumi Fire Station ordered the Company to take corrective measures for violating Article 5 (Restrictions on Storage and Handling of Hazardous Substances) Paragraph 1 and Article 6 (Construction of Facilities for Hazardous Substances and Alteration Thereof) Paragraph 1 of the Safety Control Of Hazardous Substances Act at its Gumi site, and the Company subsequently completed corrective measures by applying for permission of constructing hazardous substance handling place. To prevent the recurrence and strengthen compliance, the Company has strengthened permit management regarding hazardous substance handling place.

On August 18, 2023, Personal Information Protection Commission ordered the Company to take corrective measures along with orders to pay a penalty of KRW 875.6 million and a fine of KRW 2.4 million for violating Article 29 (Duty of Safeguards) of the Personal Information Protection Act and Article 48-2 (Special Measures to Ensure Safety of Personal

Information) Paragraph 1 Subparagraph 2 of the Enforcement Decree of the same Act, and it has subsequently paid the fine. To prevent the recurrence and strengthen compliance, the Company has strengthened education and security-related contracts with our system operation partners.

On August 23, 2023, City of Gwangju issued an administrative disposition (warning) and ordered the Company to pay a fine of KRW 2 million for violating Article 31 (Operation of Emission Facilities and Prevention Facilities) Paragraph 2 of the Clean Air Conservation at its Gwnagju site, and it has subsequently paid the fine. To prevent the recurrence and strengthen compliance, the Company has strengthened computer input management process regarding operating status of emission and prevention facilities.

Samsung Medison exported certain items subject to situational permission by the Ministry of Trade, Industry and Energy without obtaining prior approval. Accordingly, Samsung Medison on September 4, 2023, received an administrative disposition of taking training course (2 persons) from the Ministry of Trade, Industry and Energy for violating Article 19 (Public Notice of Strategic Items and Export Permission Therefor), etc., of the Foreign Trade Act, and it has completed the training course provided by the Ministry of Trade, Industry and Energy on November 7, 2023. To prevent the recurrence and strengthen compliance, Samsung Medison has enhanced educational activities for personnel responsible for strategic item management and improved internal process.

### **C. Sanctions from Korea Exchange**

- N/A

## D. Return of short-swing profits

- N/A

## 4. Subsequent events and other matters

### A. Subsequent events

- N/A

### B. External contributions

Contribution	Amount	Details	Date of Board approval
Management plans for Social Contribution Fund for 2022	KRW 11.75 billion	<ul style="list-style-type: none"> <li>The Fund consists of voluntary contributions of employees and matching funds raised by SEC. SEC plans to contribute KRW 11.75 billion in matching funds in 2022.</li> <li>The contribution will be used for educating adolescents and vulnerable population.</li> </ul>	Feb 15, 2022
Donation to Chung-nam Samsung Institute	KRW 2.324 billion	<ul style="list-style-type: none"> <li>The contribution was made to improve education of the region.</li> </ul>	
Donation to Samsung Welfare Foundation, etc.	KRW 46.8 billion	<ul style="list-style-type: none"> <li>The contribution was made to support Dream Class, a program to support learning for underprivileged middle school students (Samsung Welfare Foundation, KRW 4.4 billion)The contribution was made to support the construction expenses for the renovation of Samsung Medical Center (Samsung Life Public Welfare Foundation, KRW 23.2 billion)The contribution was made to provide funds for legal expenses for faculty members and Samsung scholarships for students (Sungkyunkwan University, KRW 15 billion)</li> <li>The contribution was made to help award those with significant contributions in the field of academia, art, and human welfare (Ho-Am Foundation, KRW 4.2 billion)</li> </ul>	Apr 28, 2022
Performance incentive to suppliers of the DS division	Approximately KRW 74.0 billion	<ul style="list-style-type: none"> <li>The incentive was provided to prevent safety incidents at sites, enhance productivity, and promote co-growth with suppliers</li> <li>For the first and secondary suppliers of the DS division stationed at the sites</li> </ul>	
Donation to the Inter-University Semiconductor Research Center of Seoul National University to help cover operating costs	KRW 5 billion	<ul style="list-style-type: none"> <li>Support of operating costs for education infrastructure and employment of research talents for the Inter-University Semiconductor Research Center of Seoul National University</li> </ul>	Jul 28, 2022
Contribution for support related to the tragedy in Itaewon and to strengthen the public safety system	KRW 4 billion	<ul style="list-style-type: none"> <li>The contribution of KRW 4 billion in cash was made to Hope Bridge Korea Disaster Relief Association to offer assistance related to the tragedy in Itaewon and strengthen the public safety system.</li> </ul>	Nov 3, 2022 Board resolution
Donation to Heemang 2023 Nanum Campaign	KRW 18.37 billion	<ul style="list-style-type: none"> <li>The contribution was made to Community Chest of Korea to fulfill corporate social responsibilities and help the marginalized.</li> </ul>	Nov 30, 2022 Board resolution
Contribution to the United Nations Development Programme (Samsung Global Goals)	USD 7,188,329 (approximately KRW 9.57 billion)	<ul style="list-style-type: none"> <li>The contribution was made to the UNDP (United Nations Development Programme) for relief activities in different countries.</li> </ul>	

Contribution	Amount	Details	Date of Board approval
Sponsorship of the Worldskills Competition	EUR 1.65 million (approximately KRW 2.25 billion)	<ul style="list-style-type: none"> <li>Sponsorship supporting the 47th WorldSkills Competition that will take place in Lyon, France, and WorldSkills International</li> </ul>	
Management plans for Social Contribution Fund for 2023	KRW 12.34 billion	<ul style="list-style-type: none"> <li>The fund consists of voluntary contributions of employees and matching funds raised by SEC. SEC plans to contribute KRW 12.34 billion in matching funds in 2023</li> <li>The contribution will be used for educating adolescents and vulnerable members of the population</li> </ul>	Feb 14, 2023 Board resolution
Donation to Chung-nam Samsung Institute	KRW 2.378 billion	<ul style="list-style-type: none"> <li>The contribution was made to improve education of the region</li> </ul>	
Promotion of supporting a smart factory project	KRW 22.4 billion	<ul style="list-style-type: none"> <li>The contribution was made to enhance domestic manufacturing competitiveness and promote balanced development of regions by supporting a smart factory project</li> </ul>	April 27, 2023 Board resolution
Incentives for Excellent Partners in the DS Division	KRW 80.1 billion	<ul style="list-style-type: none"> <li>The incentive was provided to prevent safety incidents at sites, enhance productivity, and promote co-growth with suppliers</li> <li>Incentive targets first and secondary suppliers of the DS division stationed at the sites</li> </ul>	
Donation to Samsung Welfare Foundation, etc.	KRW 32.83 billion	<ul style="list-style-type: none"> <li>The contribution was made to support the construction expenses for the renovation of Samsung Medical Center (Samsung Life Public Welfare Foundation; KRW 17.19 billion)</li> <li>The contribution was made to provide funds for legal expenses for faculty members and Samsung scholarships for students (Sungkyunkwan University; KRW 12.24 billion)</li> <li>The contribution was made to be used for the awards in connection with the presentation of the Samsung Ho-Am Prize in the following six fields—physics/mathematics, chemistry/biology, engineering, medicine, art, and volunteering (Ho-Am Foundation; KRW 3.4 billion)</li> </ul>	Jul 27, 2023 Board resolution
Donation to Heemang 2024 Nanum Campaign	KRW 8.65 billion	<ul style="list-style-type: none"> <li>The contribution was made to Community Chest of Korea to fulfill corporate social responsibilities and help the marginalized</li> </ul>	Nov 30, 2023 Board resolution
Contribution to the United Nations Development Programme (Samsung Global Goals)	USD 4,366,270 (approximately KRW 5.68 billion)	<ul style="list-style-type: none"> <li>The contribution was made to the UNDP (United Nations Development Programme) for relief activities in different countries.</li> </ul>	
Management plans for Social Contribution Fund for 2024	KRW 12.27 billion	<ul style="list-style-type: none"> <li>The fund consists of voluntary contributions of employees and matching funds raised by SEC. SEC plans to contribute KRW 12.27 billion in matching funds in 2024</li> <li>The contribution will be used for educating adolescents and vulnerable members of the population</li> </ul>	Feb 20, 2024 Board resolution
Donation to Chung-nam Samsung Institute	KRW 2.469 billion	<ul style="list-style-type: none"> <li>The contribution was made to improve education of the region</li> </ul>	

External contributions are based on a resolution of the Board.

## E. Green management

The Company is actively securing “Designation of Green Enterprise” and “Green Technology Certifications” to follow the Low Carbon Green Growth policy of the Korean government. In particular, greenhouse gas emission and energy consumption generated at our operations are reported to the government, required by relevant law. Also, relevant information are provided transparently to stakeholders through the Sustainability Report, etc.



### (Designation of Green Enterprise)

The Company strives to fulfill its responsibility as an eco-friendly enterprise by reducing pollutants, conserving resources and energy, establishing/utilizing a green management system, etc. As of June 30, 2024 (on a separate basis), our business sites in Suwon, Gumi, Giheung, Hwaseong, Pyeongtaek, Onyang, and Cheonan have been designated as green enterprises in accordance with Article 16-2 (Designation, etc., of Green Enterprise) of the Environmental Technology and Industry Support Act. In March 2021, the Green Enterprise designation was cancelled for Gwangju site pursuant to Article 16-3 (Cancellation of Designation of Green Enterprise) Paragraph 1 Subparagraph 1 of the Environmental Technology and Industry Support Act.

### (Green Technology Certification)

The Company acquired Certification of Green Technology in accordance with Article 60 (Standardization and Certification of Green Technology and Green Industries) Paragraph 1 of the Framework Act on Carbon Neutrality and Green Growth for Coping with Climate Crisis. Since 2010, the year when the certification first began, we have consistently explored green technologies and obtained certifications. We hold valid certifications for 7 green technologies as of the end of June 30, 2024, and we have also acquired certification of “Confirmation of Green Technology Product” for 179 green-technology-applied models.

Certified Green Technologies as of June 30, 2024, are as follows:

Certification number	Description/purpose	Certification date	Expiration date
GT-23-01728	Activating low-load operation catalyst for high-efficiency operation of heat pumps integrated with emission reduction devices	Jul 27, 2023	Jul 26, 2026
GT-20-00880	Improving energy efficiency in clothes dryers by incorporating high-efficiency heat pumps and heat exchangers	May 21, 2020	May 20, 2026
GT-20-00826	Ceiling-mounted wind-free air conditioners with micro air holes	Jan 30, 2020	Jan 29, 2026
GT-22-01562	Energy-saving dehumidification technology using dew point temperature	Nov 24, 2022	Nov 23, 2025
GT-19-00664	Power-saving technology for reducing standby power consumption of monitors that have Self Wake-Up function	May 16, 2019	May 15, 2025
GT-21-01256	Power-saving technology for printers and multi-function printers in sleep mode	Nov 18, 2021	Nov 17, 2024
GT-21-01248	Power-saving technology for reducing standby power consumption of laptops using high-efficiency power conversion technology	Oct 14, 2021	Oct 13, 2024

Separate basis.

### (Greenhouse gas emission and energy consumption management)

According to Article 27 (Greenhouse Gas Target Control of Controlled Emitter) of the Framework Act on Carbon Neutrality and Green Growth for Coping with Climate Crisis, the Company falls under the category of “controlled emitter,” which is an entity designated for greenhouse gas target management. Therefore, in accordance with Article 27 (3) of the above mentioned Act and Article 24 (Reporting and Verification of Amounts of Emissions) of the Act on the Allocation and Trading of Greenhouse-gas Emission Permits, the Company’s greenhouse gas emissions and energy usage, verified by a third-party, have been reported since May 2011 to the relevant authorities and opened to stakeholders.

The reported amount of greenhouse gas emission and energy use on a separate basis are provided below:

(Unit: tCO<sub>2</sub>-eq, TJ)

	2023	2022	2021
Greenhouse gas (tCO <sub>2</sub> -eq)	13,292,256	14,925,733	14,515,620
Energy (TJ)	240,882	222,877	200,942

Separate basis.

Domestic manufacturing facilities, office buildings, buildings owned by the Company, leased buildings, etc. Reported Greenhouse gas emission excludes ozone depletion substances (ODS). Amounts may differ based on the result of governmental evaluations on emissions.

From 2015, in accordance with Article 8 (Designation of Business Entities Eligible for Allocation) of the Act on the Allocation and Trading of Greenhouse-Gas Emission Permits, the Company is an eligible business entity under the Act.

### F. Certification as health-friendly company

The Company operates various medical facilities—including an in-house clinic, physiotherapy room, musculoskeletal disorder prevention center, and mental health clinic—to promote employee health, and through health promotion programs, the Company helps employees care for their own health. In recognition of our efforts, the DS Division was certified as a health-friendly company by the Minister of Health and Welfare on December 7, 2022, pursuant to Article 6-2 Paragraph 1 of the National Health Promotion Act (Validity period: December 7, 2022–December 6, 2025).



## XII. Appendix

### 1. Subsidiaries subject to consolidated financial statements (detailed)

As of June 30, 2024, Samsung Electronics' consolidated subsidiaries numbered 226 with the addition of 1 subsidiary and reduction of 7 subsidiaries when compared to totals as of December 31, 2023. Below is the list of consolidated subsidiaries.

(KRW mil)

Subsidiary	Date established	Major business	Assets as of Dec 31, 2023	Ownership	Classified as major subsidiary (Y/N)
Samsung Electronics America, Inc. (SEA)	Jul 1978	Electronic goods sales	41,926,899	Over 50%	Y
Samsung International, Inc. (SII)	Oct 1983	Electronic goods production	1,690,752	Over 50%	Y
Samsung Mexicana S.A. de C.V (SAMEX)	Mar 1988	Electronic goods production	190,798	Over 50%	Y
Samsung Electronics Home Appliances America, LLC (SEHA)	Aug 2017	Home appliance production	863,840	Over 50%	Y
Samsung Research America, Inc (SRA)	Oct 1988	R&D	984,163	Over 50%	Y
SAMSUNG NEXT LLC (SNX)	Aug 2016	Subsidiary management (overseas)	257,924	Over 50%	Y
SAMSUNG NEXT FUND LLC (SNXF)	Aug 2016	Tech/emerging-tech venture firm investments	370,961	Over 50%	Y
NeuroLogica Corp.	Feb 2004	Medical device production and sales	243,481	Over 50%	Y
Samsung HVAC America, LLC	Jul 2001	Air conditioner sales	113,088	Over 50%	Y
Joyent, Inc.	Mar 2005	Cloud services	202,727	Over 50%	Y
SmartThings, Inc.	Apr 2012	Smart home platform	220,123	Over 50%	Y
TeleWorld Solutions, Inc. (TWS)	May 2002	Network equipment installation and optimization	32,371	Over 50%	N
Samsung Semiconductor, Inc. (SSI)	Jul 1983	Semiconductor and display panel sales	12,796,440	Over 50%	Y
Samsung Federal, Inc. (SFI)	May 2023	R&D	1,263	Over 50%	N
Samsung Austin Semiconductor LLC. (SAS)	Feb 1996	Semiconductor production	16,714,945	Over 50%	Y
Samsung Oak Holdings, Inc. (SHI)	Jun 2016	Subsidiary management (overseas)	558,656	Over 50%	Y
SEMES America, Inc.	Oct 1998	Semiconductor equipment services	2,529	Over 50%	N
Samsung Display America Holdings, Inc. (SDAH)	May 2023	Subsidiary management (overseas)	307,429	Over 50%	Y
eMagin Corporation	May 2023	Display panel development and production	370,378	Over 50%	Y
Samsung Electronics Canada, Inc. (SECA)	Jul 1980	Electronic goods sales	1,302,924	Over 50%	Y
AdGear Technologies Inc.	Aug 2010	Digital advertising platform	161,458	Over 50%	Y
Samsung Eletronica da Amazonia Ltda. (SEDA)	Jan 1995	Electronic goods production and sales	5,542,627	Over 50%	Y
Samsung Electronics Mexico S.A. De C.V. (SEM)	Jul 1995	Electronic goods sales	2,153,032	Over 50%	Y
Samsung Electronics Digital Appliance Mexico, SA de CV (SEDAM)	Dec 2012	Home appliance production	1,324,763	Over 50%	Y
Samsung Electronics Latinoamerica (Zona Libre), S. A. (SELA)	Apr 1989	Electronic goods sales	643,286	Over 50%	Y

Subsidiary	Date established	Major business	Assets as of Dec 31, 2023	Ownership	Classified as major subsidiary (Y/N)
Samsung Electronics Latinoamerica Miami, Inc. (SEMI)	May 1995	Electronic goods sales	553,965	Over 50%	Y
Samsung Electronica Colombia S.A. (SAMCOL)	Mar 1997	Electronic goods sales	463,772	Over 50%	Y
Samsung Electronics Argentina S.A. (SEASA)	Jun 1996	Marketing and services	83,075	Over 50%	Y
Samsung Electronics Chile Limitada (SECH)	Dec 2002	Electronic goods sales	524,530	Over 50%	Y
Samsung Electronics Peru S.A.C. (SEPR)	Apr 2010	Electronic goods sales	295,477	Over 50%	Y
Samsung Electronics Venezuela, C.A. (SEVEN)	May 2010	Marketing and services	168	Over 50%	N
Samsung Electronics Panama. S.A. (SEPA)	Jul 2012	Consulting	5,864	Over 50%	N
Harman International Industries, Inc.	Jan 1980	Subsidiary management (overseas)	16,329,845	Over 50%	Y
Harman Becker Automotive Systems, Inc.	Jun 1981	Audio product production, sales, and R&D	3,137,078	Over 50%	Y
Harman Connected Services, Inc.	Feb 2002	Connected Service Provider	2,265,938	Over 50%	Y
Harman Connected Services Engineering Corp.	Sep 2004	Connected Service Provider	-	Over 50%	N
Harman da Amazonia Industria Eletronica e Participacoes Ltda.	Jul 2005	Audio product production and sales	196,081	Over 50%	Y
Harman de Mexico, S. de R.L. de C.V.	Feb 1997	Audio product production	261,655	Over 50%	Y
Harman do Brasil Industria Eletronica e Participacoes Ltda.	Nov 1958	Audio product sales and R&D	304,138	Over 50%	Y
Harman International Industries Canada Ltd.	May 2005	Audio product sales	326	Over 50%	N
Harman International Mexico, S. de R.L. de C.V.	Dec 2014	Audio product sales	47,811	Over 50%	N
Harman KG Holding, LLC	Mar 2009	Subsidiary management (overseas)	-	Over 50%	N
Harman Professional, Inc.	Jul 2006	Audio product sales and R&D	898,008	Over 50%	Y
Roon Labs, LLC.	Nov 2023	Audio product sales	69,748	Over 50%	N
Beijing Integrated Circuit Industry International Fund, L.P	Dec 2014	Venture firm investments	13,652	Over 50%	N
China Materialia New Materials 2016 Limited Partnership	Sep 2017	Venture firm investments	8,141	Over 50%	N
Samsung Electronics (UK) Ltd. (SEUK)	Jul 1995	Electronic goods sales	2,902,722	Over 50%	Y
Samsung Electronics Ltd. (SEL)	Jan 1999	Subsidiary management (overseas)	7,212	Over 50%	N
Samsung Semiconductor Europe Limited (SSEL)	Apr 1997	Semiconductor and display panel sales	109,216	Over 50%	Y
Samsung Electronics GmbH (SEG)	Dec 1984	Electronic goods sales	2,097,706	Over 50%	Y
Samsung Electronics Holding GmbH (SEHG)	Feb 1982	Subsidiary management (overseas)	438,172	Over 50%	Y
Samsung Semiconductor Europe GmbH (SSEG)	Dec 1987	Semiconductor and display panel sales	1,024,701	Over 50%	Y
Samsung Electronics France S.A.S (SEF)	Jan 1988	Electronic goods sales	1,265,823	Over 50%	Y
Samsung Electronics Italia S.P.A. (SEI)	Apr 1991	Electronic goods sales	1,053,955	Over 50%	Y
Samsung Electronics Iberia, S.A. (SESA)	Jan 1989	Electronic goods sales	1,266,167	Over 50%	Y

Subsidiary	Date established	Major business	Assets as of Dec 31, 2023	Ownership	Classified as major subsidiary (Y/N)
Samsung Electronics Portuguesa, Unipessoal, Lda. (SEP)	Sep 1982	Electronic goods sales	304,248	Over 50%	Y
Samsung Electronics Hungarian Private Co. Ltd. (SEH)	Oct 1989	Electronic goods production and sales	1,426,079	Over 50%	Y
Samsung Electronics Europe Logistics B.V. (SELS)	May 1991	Logistics	1,639,004	Over 50%	Y
Samsung Electronics Benelux B.V. (SEBN)	Jul 1995	Electronic goods sales	1,794,552	Over 50%	Y
Samsung Electronics Europe Holding Cooperatief U.A. (SEEH)	Oct 2008	Subsidiary management (overseas)	9,660,481	Over 50%	Y
Samsung Electronics Nordic Aktiebolag (SENA)	Mar 1992	Electronic goods sales	591,101	Over 50%	Y
Samsung Electronics Slovakia s.r.o (SESK)	Jun 2002	TV and monitor production	928,129	Over 50%	Y
Samsung Electronics Polska, SP.Zo.o (SEPOL)	Apr 1996	Electronic goods sales	1,384,273	Over 50%	Y
Samsung Electronics Poland Manufacturing SP.Zo.o (SEPM)	Feb 2010	Home appliance production	882,673	Over 50%	Y
Samsung Electronics Romania LLC (SEROM)	Sep 2007	Electronic goods sales	460,478	Over 50%	Y
Samsung Electronics Austria GmbH (SEAG)	Jan 2002	Electronic goods sales	519,776	Over 50%	Y
Samsung Electronics Switzerland GmbH (SESG)	May 2013	Electronic goods sales	264,260	Over 50%	Y
Samsung Electronics Czech and Slovak s.r.o. (SECZ)	Jan 2010	Electronic goods sales	391,308	Over 50%	Y
SAMSUNG ELECTRONICS BALTICS SIA (SEB)	Oct 2001	Electronic goods sales	131,129	Over 50%	Y
Samsung Electronics Greece S.M.S.A (SEGR)	Apr 2010	Electronic goods sales	153,107	Over 50%	Y
Samsung Electronics Air Conditioner Europe B.V. (SEACE)	Apr 2017	Air conditioner sales	273,604	Over 50%	Y
Samsung Nanoradio Design Center (SNDC)	Feb 2004	R&D	28,657	Over 50%	N
Samsung Denmark Research Center ApS (SDRC)	Sep 2012	R&D	28,791	Over 50%	N
Samsung Cambridge Solution Centre Limited (SCSC)	Sep 2012	R&D	210,343	Over 50%	Y
Samsung Zhilabs, S.L.	Nov 2008	Network solution R&D and sales	11,879	Over 50%	N
FOODIENT LTD.	Mar 2012	R&D	10,004	Over 50%	N
Samsung Electronics Rus Company LLC (SERC)	Oct 2006	Electronic goods sales	839,493	Over 50%	Y
Samsung Electronics Rus Kaluga LLC (SERK)	Jul 2007	TV production	1,030,743	Over 50%	Y
Samsung Electronics Ukraine Company LLC (SEUC)	Sep 2008	Electronic goods sales	280,470	Over 50%	Y
Samsung R&D Institute Ukraine (SRUKR)	Feb 2022	R&D	9,454	Over 50%	N
Samsung Electronics Central Eurasia LLP (SECE)	Sep 2008	Electronic goods sales	362,213	Over 50%	Y
Samsung R&D Institute Rus LLC (SRR)	Nov 2011	R&D	49,646	Over 50%	N
Samsung Electronics Caucasus Co. Ltd (SECC)	Oct 2014	Marketing	2,632	Over 50%	N
Samsung Electronics Uzbekistan FC LLC. (SEUZ)	Mar 2022	Marketing	91,356	Over 50%	Y

Subsidiary	Date established	Major business	Assets as of Dec 31, 2023	Ownership	Classified as major subsidiary (Y/N)
AKG Acoustics GmbH	Mar 1947	Audio product production and sales	356,482	Over 50%	Y
Apostera UA, LLC	Oct 2020	Connected Service Provider	1,037	Over 50%	N
Harman Audio Iberia Espana Sociedad Limitada	Nov 2012	Audio product sales	1,254	Over 50%	N
Harman Becker Automotive Systems GmbH	Jul 1990	Audio product production, sales, and R&D	3,949,170	Over 50%	Y
Harman Becker Automotive Systems Italy S.R.L.	Dec 2005	Audio product sales	879	Over 50%	N
Harman Becker Automotive Systems Manufacturing Kft	Aug 1994	Audio product R&D and production	3,230,387	Over 50%	Y
Harman Belgium SA	Apr 1967	Audio product sales	2,993	Over 50%	N
Harman Connected Services AB.	Oct 1984	Connected Service Provider	11,306	Over 50%	N
Harman Finland Oy	Jul 1998	Connected Service Provider	379	Over 50%	N
Harman Connected Services GmbH	Dec 2005	Connected Service Provider	52,425	Over 50%	N
Harman Connected Services Poland Sp.zoo	Jun 2007	Connected Service Provider	11,538	Over 50%	N
Harman Connected Services UK Ltd.	Sep 2008	Connected Service Provider	55,034	Over 50%	N
Harman Consumer Nederland B.V.	Dec 1995	Audio product sales	497,888	Over 50%	Y
Harman Deutschland GmbH	Mar 1998	Audio product sales	13,602	Over 50%	N
Harman France SNC	Nov 1995	Audio product sales	166,979	Over 50%	Y
Harman Holding GmbH & Co. KG	Jun 2002	Management Company	5,848,586	Over 50%	Y
Harman Hungary Financing Ltd.	Jun 2012	Financing Company	46,365	Over 50%	N
Harman Inc. & Co. KG	Jun 2012	Subsidiary management (overseas)	4,619,985	Over 50%	Y
Harman International Estonia OU	May 2015	R&D	1	Over 50%	N
Harman International Industries Limited	Mar 1980	Audio product sales and R&D	77,383	Over 50%	Y
Harman International Romania SRL	Feb 2015	R&D	13,910	Over 50%	N
Harman Management GmbH	Apr 2002	Subsidiary management (overseas)	-	Over 50%	N
Harman Professional Kft	Dec 2014	Audio product R&D and production	59,000	Over 50%	N
Harman Professional Denmark ApS	Jul 1987	Audio product sales and R&D	54,778	Over 50%	N
Red Bend Software SAS	Oct 2002	Software design	8,162	Over 50%	N
Studer Professional Audio GmbH	Nov 2003	Audio product sales and R&D	476	Over 50%	N
Harman Connected Services OOO	Nov 1998	Connected Service Provider	27,181	Over 50%	N
Harman RUS CIS LLC	Aug 2011	Audio product sales	38,224	Over 50%	N
Samsung Gulf Electronics Co., Ltd. (SGE)	May 1995	Electronic goods sales	1,027,977	Over 50%	Y
Samsung Electronics Turkiye (SETK)	Dec 1984	Electronic goods sales	793,352	Over 50%	Y
Samsung Electronics Industry and Commerce Ltd. (SETK-P)	Feb 2021	Electronic goods production	134,709	Over 50%	Y

Subsidiary	Date established	Major business	Assets as of Dec 31, 2023	Ownership	Classified as major subsidiary (Y/N)
Samsung Electronics Levant Co.,Ltd. (SELV)	Jul 2009	Electronic goods sales	444,609	Over 50%	Y
Samsung Electronics Maghreb Arab (SEMAG)	Nov 2009	Electronic goods sales	352,506	Over 50%	Y
Samsung Electronics Egypt S.A.E (SEEG)	Jul 2012	Electronic goods production and sales	1,348,469	Over 50%	Y
Samsung Electronics Israel Ltd. (SEIL)	Sep 2012	Marketing	22,070	Over 50%	N
Samsung Electronics Tunisia S.A.R.L (SETN)	Sep 2012	Marketing	4,885	Over 50%	N
Samsung Electronics Pakistan(Private) Ltd. (SEPAK)	Nov 2012	Marketing	3,393	Over 50%	N
Samsung Electronics Saudi Arabia Ltd. (SESAR)	Nov 2019	Electronic goods sales	428,067	Over 50%	Y
Samsung Semiconductor Israel R&D Center, Ltd. (SIRC)	Oct 2007	R&D	162,934	Over 50%	Y
Corephotonics Ltd.	Jan 2012	R&D	24,159	Over 50%	Y
Samsung Electronics South Africa(Pty) Ltd. (SSA)	Jun 1994	Electronic goods sales	527,416	Over 50%	Y
Samsung Electronics South Africa Production (pty) Ltd. (SSAP)	Jul 2014	TV and monitor production	87,759	Over 50%	Y
Samsung Electronics West Africa Ltd. (SEWA)	Mar 2010	Marketing	23,348	Over 50%	N
Samsung Electronics East Africa Ltd. (SEEA)	Dec 2011	Marketing	18,072	Over 50%	N
Global Symphony Technology Group Private Ltd.	Jan 2002	Subsidiary management (overseas)	56,523	Over 50%	N
Harman Connected Services Morocco	Apr 2012	Connected Service Provider	73	Over 50%	N
Harman Industries Holdings Mauritius Ltd.	Oct 2009	Subsidiary management (overseas)	95,209	Over 50%	Y
Red Bend Ltd.	Feb 1998	Audio product production	110,476	Over 50%	Y
Samsung Asia Pte. Ltd. (SAPL)	Jul 2006	Subsidiary management (overseas)	22,234,942	Over 50%	Y
Samsung Electronics Singapore Pte. Ltd. (SESP)	Oct 2020	Electronic goods sales	658,918	Over 50%	Y
Samsung Malaysia Electronics (SME) Sdn. Bhd. (SME)	May 2003	Electronic goods sales	618,803	Over 50%	Y
Samsung Electronics Display (M) Sdn. Bhd. (SDMA)	Mar 1995	Electronic goods production	26,388	Over 50%	N
Samsung Electronics (M) Sdn. Bhd. (SEMA)	Sep 1989	Home appliance production	313,767	Over 50%	Y
Samsung Vina Electronics Co., Ltd. (SAVINA)	Jan 1995	Electronic goods sales	110,276	Over 50%	Y
Samsung Electronics Vietnam Co., Ltd. (SEV)	Mar 2008	Electronic goods production	7,301,860	Over 50%	Y
Samsung Electronics Vietnam THAINGUYEN Co., Ltd. (SEVT)	Mar 2013	Telecom product production	12,554,481	Over 50%	Y
Samsung Electronics HCMC CE Complex Co., Ltd. (SEHC)	Feb 2015	Electronic goods production and sales	4,043,677	Over 50%	Y
Samsung Display Vietnam Co., Ltd. (SDV)	Jul 2014	Display panel production	7,383,485	Over 50%	Y
PT Samsung Electronics Indonesia (SEIN)	Aug 1991	Electronic goods production and sales	1,110,178	Over 50%	Y
PT Samsung Telecommunications Indonesia (STIN)	Mar 2003	Electronic goods sales and service	75,638	Over 50%	Y
Thai Samsung Electronics Co., Ltd. (TSE)	Oct 1988	Electronic goods production and sales	3,039,379	Over 50%	Y

Subsidiary	Date established	Major business	Assets as of Dec 31, 2023	Ownership	Classified as major subsidiary (Y/N)
Laos Samsung Electronics Sole Co., Ltd (LSE)	Sep 2016	Marketing	1,318	Over 50%	N
Samsung Electronics Philippines Corporation (SEPCO)	Mar 1996	Electronic goods sales	372,478	Over 50%	Y
Samsung Electronics Australia Pty. Ltd. (SEAU)	Nov 1987	Electronic goods sales	612,161	Over 50%	Y
Samsung Electronics New Zealand Limited (SENZ)	Sep 2013	Electronic goods sales	204,114	Over 50%	Y
Samsung India Electronics Private Ltd. (SIEL)	Aug 1995	Electronic goods production and sales	7,738,259	Over 50%	Y
Red Brick Lane Marketing Solutions Pvt. Ltd.	Jan 2012	Marketing	1,429	Over 50%	N
Samsung Display Noida Private Limited (SDN)	Jul 2019	Display panel production	675,743	Over 50%	Y
Samsung R&D Institute India-Bangalore Private Limited (SRI-Bangalore)	May 2005	R&D	430,987	Over 50%	Y
Samsung R&D Institute BanglaDesh Limited (SRBD)	Aug 2010	R&D	17,625	Over 50%	N
Samsung Nepal Services Pvt, Ltd (SNSL)	Nov 2017	Service	1,263	Over 50%	N
Samsung Japan Corporation (SJC)	Dec 1975	Semiconductor and display panel sales	1,013,103	Over 50%	Y
Samsung R&D Institute Japan Co. Ltd. (SRJ)	Aug 1992	R&D	136,782	Over 50%	Y
Samsung Electronics Japan Co., Ltd. (SEJ)	Sep 2008	Electronic goods sales	705,460	Over 50%	Y
Harman Connected Services Corp. India Pvt. Ltd.	Apr 2002	Connected Service Provider	353,291	Over 50%	Y
Harman International (India) Private Limited	Jan 2009	Audio product sales and R&D	395,349	Over 50%	Y
Harman International Industries PTY Ltd.	Dec 2014	Subsidiary management (overseas)	-4,549	Over 50%	N
Harman International (Thailand) Co., Ltd	Jun 2024	Connected Service Provider	-	Over 50%	N
Harman International Japan Co., Ltd.	Jun 1991	Audio product sales and R&D	72,958	Over 50%	N
Harman Singapore Pte. Ltd.	Aug 2007	Audio product sales	15,187	Over 50%	N
Samsung (CHINA) Investment Co., Ltd. (SCIC)	Mar 1996	Electronic goods sales	10,222,557	Over 50%	Y
Samsung Electronics Hong Kong Co., Ltd. (SEHK)	Sep 1988	Electronic goods sales	985,438	Over 50%	Y
Samsung Electronics Taiwan Co., Ltd. (SET)	Nov 1994	Electronic goods sales	1,797,627	Over 50%	Y
Tianjin Samsung Electronics Co., Ltd. (TSEC)	Apr 1993	TV and monitor production	382,260	Over 50%	Y
Suzhou Samsung Electronics Co., Ltd. (SSEC)	Apr 1995	Home appliance production	636,160	Over 50%	Y
Samsung Suzhou Electronics Export Co., Ltd. (SSEC-E)	Apr 1995	Home appliance production	488,014	Over 50%	Y
Samsung Electronics Suzhou Computer Co., Ltd. (SSEC)	Sep 2002	R&D	94,528	Over 50%	Y
Tianjin Samsung Telecom Technology Co., Ltd. (TSTC)	Mar 2001	Telecom product production	646,732	Over 50%	Y
Beijing Samsung Telecom R&D Center (SRC-Beijing)	Sep 2000	R&D	131,677	Over 50%	N
Samsung Electronics China R&D Center (SRC-Nanjing)	May 2004	R&D	33,031	Over 50%	N
Samsung Mobile R&D Center China- Guangzhou (SRC-Guangzhou)	Jan 2010	R&D	43,195	Over 50%	N

Samsung R&D Institute China-Shenzhen (SRC-Shenzhen)	Mar 2013	R&D	38,382	Over 50%	N
Shanghai Samsung Semiconductor Co., Ltd. (SSS)	Oct 2001	Semiconductor and display panel sales	5,262,086	Over 50%	Y

Subsidiary	Date established	Major business	Assets as of Dec 31, 2023	Ownership	Classified as major subsidiary (Y/N)
Samsung (China) Semiconductor Co., Ltd. (SCS)	Sep 2012	Semiconductor production	15,808,283	Over 50%	Y
Samsung Semiconductor Xian Co., Ltd. (SSCX)	Apr 2016	Semiconductor and display panel sales	854,932	Over 50%	Y
Samsung Electronics Suzhou Semiconductor Co., Ltd. (SESS)	Dec 1994	Semiconductor processing	869,225	Over 50%	Y
Tianjin Samsung LED Co., Ltd. (TSLED)	May 2009	LED production	257,820	Over 50%	Y
Samsung Semiconductor (China) R&D Co., Ltd. (SSCR)	Apr 2003	R&D	89,911	Over 50%	N
Samsung Display Dongguan Co., Ltd. (SDD)	Nov 2001	Display panel production	752,934	Over 50%	Y
Samsung Display Tianjin Co., Ltd. (SDT)	Jun 2004	Display panel production	583,728	Over 50%	Y
SEMES (XIAN) Co., Ltd.	Jul 2013	Semiconductor/FPD equipment services	3,588	Over 50%	N
Samsung Semiconductor Investment L.P. I	Dec 2021	Tech/emerging-tech venture firm investments	10,314	Over 50%	N
Harman (China) Technologies Co., Ltd.	Mar 2011	Audio product production	214,710	Over 50%	Y
Harman (Suzhou) Audio and Infotainment Systems Co., Ltd.	Mar 2013	Audio product sales	5,795	Over 50%	N
Harman Automotive Electronic Systems (Suzhou) Co., Ltd.	Sep 2006	Audio product R&D and production	465,961	Over 50%	Y
Harman Commercial (Shanghai) Co., Ltd.	Oct 2010	Audio product sales	367	Over 50%	N
Harman Connected Services Solutions (Chengdu) Co., Ltd.	Aug 2007	Connected Service Provider	12,426	Over 50%	N
Harman Holding Limited	May 2007	Audio product sales	648,529	Over 50%	Y
Harman International (China) Holdings Co., Ltd.	Jun 2009	Audio product sales and R&D	685,227	Over 50%	Y
Harman Technology (Shenzhen) Co., Ltd.	Sep 2004	Audio product sales and R&D	40,712	Over 50%	N
Samsung Display	Apr 2012	Display panel production and sales	65,328,568	Over 50%	Y
SU Materials	Aug 2011	Display panel component production	37,027	Over 50%	N
STECO	Jun 1995	Semiconductor component production	132,675	Over 50%	Y
SEMES	Jan 1993	Semiconductor/FPD manufacturing equipment production and sales	2,187,919	Over 50%	Y
Samsung Electronics Service	Oct 1998	Electronics goods repair services	795,640	Over 50%	Y
Samsung Electronics Service CS	Oct 2018	Customer management services	23,897	Over 50%	N
Samsung Electronics Sales	Jul 1996	Electronic goods sales	1,358,597	Over 50%	Y
Samsung Electronics Logitech	Apr 1998	Total logistics services	465,079	Over 50%	Y
Samsung Medison	Jul 1985	Medical device production and sales	629,302	Over 50%	Y
Stellarforest	Dec 2022	Food manufacturing and processing	7,255	Over 50%	N
Mirero System	Jan 1994	Semiconductor software development and supply	39,931	Over 50%	N
Harman Korea	Jan 2005	Semiconductor software development and supply	16,696	Over 50%	N

Subsidiary	Date established	Major business	Assets as of Dec 31, 2023	Ownership	Classified as major subsidiary (Y/N)
SVIC #21 Venture Capital Union	Nov 2011	Tech/emerging-tech venture firm investments	82,411	Over 50%	Y
SVIC #22 Venture Capital Union	Nov 2011	Tech/emerging-tech venture firm investments	17,438	Over 50%	N
SVIC #26 Venture Capital Union	Nov 2014	Tech/emerging-tech venture firm investments	27,631	Over 50%	N
SVIC #28 Venture Capital Union	Feb 2015	Tech/emerging-tech venture firm investments	337,949	Over 50%	Y
SVIC #29 Venture Capital Union	Apr 2015	Tech/emerging-tech venture firm investments	34,222	Over 50%	N
SVIC #32 Venture Capital Union	Aug 2016	Tech/emerging-tech venture firm investments	223,258	Over 50%	Y
SVIC #33 Venture Capital Union	Nov 2016	Tech/emerging-tech venture firm investments	315,348	Over 50%	Y
SVIC #37 Venture Capital Union	Nov 2017	Tech/emerging-tech venture firm investments	22,559	Over 50%	N
SVIC #40 Venture Capital Union	Jun 2018	Tech/emerging-tech venture firm investments	37,275	Over 50%	N
SVIC #42 Venture Capital Union	Nov 2018	Tech/emerging-tech venture firm investments	33,102	Over 50%	N
SVIC #43 Venture Capital Union	Dec 2018	Tech/emerging-tech venture firm investments	17,093	Over 50%	N
SVIC #45 Venture Capital Union	May 2019	Tech/emerging-tech venture firm investments	175,893	Over 50%	Y
SVIC #52 Venture Capital Union	May 2021	Tech/emerging-tech venture firm investments	77,174	Over 50%	Y
SVIC #55 Venture Capital Union	Sep 2021	Tech/emerging-tech venture firm investments	155,442	Over 50%	Y
SVIC #56 Venture Capital Union	Nov 2021	Tech/emerging-tech venture firm investments	56,070	Over 50%	N
SVIC #57 Venture Capital Union	Aug 2022	Tech/emerging-tech venture firm investments	37,155	Over 50%	N
SVIC #62 Venture Capital Union	Mar 2023	Tech/emerging-tech venture firm investments	3,715	Over 50%	N
Private Equity Fund for Semiconductor Growth	Mar 2017	Semiconductor industry investments	58,356	Over 50%	N
Private Equity Fund for Co-existence of System Semiconductor Firms	Apr 2020	Semiconductor industry investments	79,856	Over 50%	Y
General Private Equity Fund for Semiconductor Ecosystem	Jul 2023	Semiconductor industry investments	753	Over 50%	N

Companies with over KRW 75 billion in total assets as of December 31, 2023 are classified as major subsidiaries. See 『II. Businesses Overview』 for detailed information about major business segments.



**(Changes in subsidiaries)**

	Americas	Europe/CIS	MEA/Africa	Asia ex China	China	Domestic	Total	Increase	Decrease
As of Dec 31 2021	46	71	20	30	30	31	228	-	-
Changes in 2022	(1)	1	-	2	-	2	4	<p><b>[Europe/CIS: 4]</b> Samsung R&amp;D Institute Ukraine (SRUKR) Samsung Electronics Uzbekistan FC LLC. (SEUZ) Apostera GmbH Apostera UA, LLC</p> <p><b>[Asia ex China: 2]</b> DOWOINSYS VINA COMPANY LIMITED Red Brick Lane Marketing Solutions Pvt. Ltd.</p> <p><b>[Domestic: 2]</b> SVIC #57 Venture Capital Union Stellarforest</p>	<p><b>[Americas: 1]</b> Dacor Canada Co.</p> <p><b>[Europe/CIS: 3]</b> AMX UK Limited Harman International s.r.o Apostera GmbH</p>
As of Dec 31 2022	45	72	20	32	30	33	232	-	-
Changes in 2023	2	(4)	-	-	-	2	-	<p><b>[Americas: 4]</b> Samsung Federal, Inc. (SFI) Samsung Display America Holdings, Inc. (SDAH) eMagin Corporation Roon Labs, LLC</p> <p><b>[Domestic: 2]</b> SVIC #62 Venture Capital Union General Private Equity Fund for Semiconductor Ecosystem</p>	<p><b>[Americas: 2]</b> Dacor Holdings, Inc Dacor, Inc</p> <p><b>[Europe/CIS: 4]</b> Red Bend Software Ltd. Harman Finance International GP S.a.r.l Harman Finance International, SCA Harman Automotive UK Limited</p>
As of Dec 31 2023	47	68	20	32	30	35	232	-	-
Changes in 2024	(1)	(2)	-	-	-	(3)	(6)	<p><b>[Asia ex China: 1]</b> Harman International (Thailand) Co., Ltd.</p>	<p><b>[Domestic: 3]</b> Dowooinsys Co., Ltd Gf-System Co., Ltd Samsung Venture Capital Union #48</p> <p><b>[Europe/CIS: 2]</b> Samsung Display Slovakia, s.r.o., v likvidácii (SDSK) Samsung Electronics Overseas B.V. (SEO)</p> <p><b>[Americas: 1]</b> Harman Financial Group LLC</p> <p><b>[Asia ex China: 1]</b> Dowooinsys Vina Company Limited</p>
As of Jun 30 2024	46	66	20	32	30	32	226	-	-

## 2. Affiliates

### A. Domestic Affiliates

As of June 30, 2024, Samsung Group is consisted of 63 domestic affiliates. Among the Samsung Group's 63 domestic affiliates, seventeen (17) affiliates including Samsung Electronics are listed, and forty-six (46) affiliates are unlisted.

[As of June 30, 2024]

Listing	No. of affiliates	Name of affiliates
Listed	17	Samsung C&T; Samsung Biologics; Samsung Life Insurance; Samsung SDI; Samsung SDS; SamsungFN REIT; Samsung E&A; Samsung Electro-mechanics; Samsung Electronics; Samsung Heavy Industries; Samsung Securities; Samsung Card; Samsung Fire & Marine Insurance; Multicampus; S1; Cheil Worldwide; Hotel Shilla
Unlisted	46	Samsung Display; Samsung Medison; Samsung Bioepis; Samsung Venture Investment Corporation; Samsung Life Service Claim Adjustment; Samsung Futures; Samsung Active Asset Management; Samsung SRA Asset Management; Samsung Welstory; Samsung Asset Management; Samsung Electronics Logitech; Samsung Electronics Service; Samsung Electronics Service CS; Samsung Electronics Sales; Samsung Card Customer Service; Samsung Corning Advanced Glass; Samsung Hedge Asset Management; Samsung Fire & Marine Insurance Service; Samsung Claim Adjustment Service; SEMES; Suwon Samsung Bluewings FC; STECO; Shilla HM; SD Flex; SBTM; S-1CRM; SU Materials; S-Core; STM; HDC Shilla Duty Free LTD; OpenHands; Cheil Fashion Retail Co., Ltd.; Miracom; Mirero System; Samsung Global Research(SGR); Samsung Lions; Samsung Life Financial Service; Samsung Fire & Marine Insurance Financial Service; Samwoo Architects & Engineers; Seoul Lakeside CC; SECUI; CVnet Corporation; SHP Corporation; Harman International Korea; Human TSS; Stellarforest
Total	63	

## B. Foreign Affiliates

[As of June 30, 2024]

Listing	No. of affiliates	Name of affiliates	Country
Unlisted	564	SAMOO AUSTIN INC	USA
		SAMOO HU Designer and Engineering Services Limited	Hungary
		SAMOO DESIGNERS & ENGINEERS INDIA PRIVATE LIMITED	India
		SAMOO (KL) SDN. BHD.	Malaysia
		SAMOO Design Consulting Co.,Ltd	China
		Samsung Green repower, LLC	USA
		Samsung Solar Construction Inc.	USA
		QSSC, S.A. de C.V.	Mexico
		Samsung Solar Energy LLC	USA
		Equipment Trading Solutions Group, LLC	USA
		SAMSUNG C&T CHARGING SOLUTIONS LLC	USA
		SP Armow Wind Ontario LP	Canada
		SRE GRW EPC GP Inc.	Canada
		SRE GRW EPC LP	Canada
		SRE SKW EPC GP Inc.	Canada
		SRE SKW EPC LP	Canada
		SRE WIND PA GP INC.	Canada
		SRE WIND PA LP	Canada
		SRE GRS Holdings GP Inc.	Canada
		SRE GRS Holdings LP	Canada
		SRE K2 EPC GP Inc.	Canada
		SRE K2 EPC LP	Canada
		SRE KS HOLDINGS GP INC.	Canada
		SRE KS HOLDINGS LP	Canada
		SP Belle River Wind LP	Canada
		SRE Armow EPC GP Inc.	Canada
		SRE Armow EPC LP	Canada
		North Kent Wind 1 LP	Canada
		SRE Wind GP Holding Inc.	Canada
		South Kent Wind LP Inc.	Canada
		Grand Renewable Wind LP Inc.	Canada
		SRE North Kent 2 LP Holdings LP	Canada
		SRE Solar Development GP Inc.	Canada
		SRE Solar Development LP	Canada
		SRE Windsor Holdings GP Inc.	Canada
		SRE Southgate Holdings GP Inc.	Canada
		SRE Solar Construction Management GP Inc.	Canada
		SRE Solar Construction Management LP	Canada
		SRE BRW EPC GP INC.	Canada
		SRE BRW EPC LP	Canada
		SRE North Kent 1 GP Holdings Inc	Canada
SRE North Kent 2 GP Holdings Inc	Canada		
SRE Belle River GP Holdings Inc	Canada		
SRE NK1 EPC GP Inc	Canada		
SRE NK1 EPC LP	Canada		
SRE Summerside Construction GP Inc.	Canada		

Listing	No. of affiliates	Name of affiliates	Country
		SRE Summerside Construction LP	Canada
		PLL Holdings LLC	USA
		Grand Renewable Solar GP Inc.	Canada
		KINGSTON SOLAR GP INC.	Canada
		SP Armow Wind Ontario GP Inc	Canada
		South Kent Wind GP Inc.	Canada
		Grand Renewable Wind GP Inc.	Canada
		North Kent Wind 1 GP Inc	Canada
		SP Belle River Wind GP Inc	Canada
		Samsung Solar Energy 1 LLC	USA
		Samsung Solar Energy 2 LLC	USA
		Samsung Solar Energy 3, LLC	USA
		CS SOLAR LLC	USA
		5S ENERGY HOLDINGS, LLC	USA
		SungEel Recycling Park Thuringen GmbH	Germany
		POSS-SLPC, S.R.O	Slovakia
		Solluce Romania 1 B.V.	Romania
		S.C. Otelinox S.A	Romania
		Samsung C&T Corporation Romania S.R.L	Romania
		WARIS GIGIH ENGINEERING AND TECHNOLOGY SDN. BHD.	Malaysia
		Samsung Chemtech Vina LLC	Vietnam
		Samsung C&T Thailand Co., Ltd	Thailand
		Malaysia Samsung Steel Center Sdn.Bhd	Malaysia
		S&G Biofuel PTE.LTD	Singapore
		PT. Gandaerah Hendana	Indonesia
		PT. Inecda	Indonesia
		VISTA CONTRACTING AND DEVELOPMENT BANGLADESH LTD.	Bangladesh
		Vista NEXT Limited	Bangladesh
		Welstory Hungary Kft.	Hungary
		WELVISTA COMPANY LIMITED	Vietnam
		SAMSUNG CONST. CO. PHILS.	Philippines
		SAMSUNG TRADING (SHANGHAI) CO., LTD	China
		Samsung Precision Stainless Steel(pinghu) Co.,Ltd.	China
		Samsung Japan Corporation	Japan
		Samsung R&D Institute Japan Co. Ltd.	Japan
		Samsung Electronics America, Inc.	USA
		Samsung Electronics Canada, Inc.	Canada
		Samsung Electronics Mexico S.A. De C.V.	Mexico
		Samsung Electronics Ltd.	United Kingdom
		Samsung Electronics (UK) Ltd.	United Kingdom
		Samsung Electronics Holding GmbH	Germany
		Samsung Electronics Iberia, S.A.	Spain
		Samsung Electronics France S.A.S	France
		Samsung Electronics Hungarian Private Co. Ltd.	Hungary
		Samsung Electronics Italia S.P.A.	Italy
		Samsung Electronics Europe Logistics B.V.	Netherlands
		Samsung Electronics Benelux B.V.	Netherlands
		Samsung Electronics Polska, SP.Zo.o	Poland

Listing	No. of affiliates	Name of affiliates	Country
		Samsung Electronics Portuguesa, Unipessoal, Lda.	Portugal
		Samsung Electronics Nordic Aktiebolag	Sweden
		Samsung Electronics Austria GmbH	Austria
		Samsung Electronics Slovakia s.r.o	Slovakia
		Samsung Electronics Europe Holding Cooperatief U.A.	Netherlands
		Samsung Electronics Display (M) Sdn. Bhd.	Malaysia
		Samsung Electronics (M) Sdn. Bhd.	Malaysia
		Samsung Vina Electronics Co., Ltd.	Vietnam
		Samsung Asia Pte. Ltd.	Singapore
		Samsung India Electronics Private Ltd.	India
		Samsung R&D Institute India-Bangalore Private Limited	India
		Samsung Electronics Australia Pty. Ltd.	Australia
		PT Samsung Electronics Indonesia	Indonesia
		Thai Samsung Electronics Co., Ltd.	Thailand
		Samsung Malaysia Electronics (SME) Sdn. Bhd.	Malaysia
		Samsung Electronics Hong Kong Co., Ltd.	Hong Kong
		Suzhou Samsung Electronics Co., Ltd.	China
		Samsung (CHINA) Investment Co., Ltd.	China
		Samsung Electronics Suzhou Semiconductor Co., Ltd.	China
		Tianjin Samsung Electronics Co., Ltd.	China
		Samsung Electronics Taiwan Co., Ltd.	Taiwan
		Tianjin Samsung Telecom Technology Co., Ltd.	China
		Shanghai Samsung Semiconductor Co., Ltd.	China
		Samsung Electronics Suzhou Computer Co., Ltd.	China
		Samsung Semiconductor (China) R&D Co., Ltd.	China
		Samsung (China) Semiconductor Co., Ltd.	China
		Samsung SemiConductor Xian Co., Ltd.	China
		Samsung Gulf Electronics Co., Ltd.	Utd.Arab Emir.
		Samsung Electronics Egypt S.A.E	Egypt
		Samsung Electronics South Africa(Pty) Ltd.	South Africa
		Samsung Electronics Latinoamerica(Zona Libre), S. A.	Panama
		Samsung Eletronica da Amazonia Ltda.	Brazil
		Samsung Electronics Argentina S.A.	Argentina
		Samsung Electronics Chile Limitada	Chile
		Samsung Electronics Rus Company LLC	Russian Fed.
		Samsung Electronics Rus Kaluga LLC	Russian Fed.
		Tianjin Samsung LED Co., Ltd.	China
		Samsung Biologics America, Inc.	USA
		Samsung Bioepis United States Inc.	USA
		SAMSUNG BIOEPIS UK LIMITED	United Kingdom
		Samsung Bioepis NL B.V.	Netherlands
		Samsung Bioepis CH GmbH	Switzerland
		Samsung Bioepis PL Sp z o.o.	Poland
		SAMSUNG BIOEPIS AU PTY LTD	Australia
		SAMSUNG BIOEPIS NZ LIMITED	New Zealand
		Samsung Bioepis TW Limited	Taiwan
		Samsung Bioepis HK Limited	Hong Kong
		SAMSUNG BIOEPIS IL LTD	Israel
		SAMSUNG BIOEPIS BR PHARMACEUTICAL LTDA	Brazil

Listing	No. of affiliates	Name of affiliates	Country
		Intellectual Keystone Technology LLC	USA
		Samsung Display America Holdings, Inc	USA
		Samsung Display Vietnam Co., Ltd.	Vietnam
		Samsung Display Noida Private Limited	India
		Samsung Display Dongguan Co., Ltd.	China
		Samsung Display Tianjin Co., Ltd.	China
		Novald GmbH	Germany
		SEMES America, Inc.	USA
		SEMES (XIAN) Co., Ltd.	China
		NeuroLogica Corp.	USA
		Samsung HVAC America, LLC	USA
		SmartThings, Inc.	USA
		Samsung Oak Holdings, Inc.	USA
		Joyent, Inc.	USA
		TeleWorld Solutions, Inc.	USA
		Samsung Semiconductor, Inc.	USA
		Samsung Research America, Inc	USA
		Samsung Electronics Home Appliances America, LLC	USA
		Samsung International, Inc.	USA
		Harman International Industries, Inc.	USA
		Samsung Federal, Inc.	USA
		Samsung Austin Semiconductor LLC.	USA
		AdGear Technologies Inc.	Canada
		SAMSUNG NEXT LLC	USA
		SAMSUNG NEXT FUND LLC	USA
		Samsung Mexicana S.A. de C.V	Mexico
		Samsung Electronics Digital Appliance Mexico, SA de CV	Mexico
		eMagin Corporation	USA
		Harman International Japan Co., Ltd.	Japan
		Harman International Industries Canada Ltd.	Canada
		Harman Becker Automotive Systems, Inc.	USA
		Harman Professional, Inc.	USA
		Harman Connected Services, Inc.	USA
		Roon Labs, LLC	USA
		Harman Belgium SA	Belgium
		Harman France SNC	France
		Red Bend Software SAS	France
		Harman Inc. & Co. KG	Germany
		Harman KG Holding, LLC	USA
		Harman Becker Automotive Systems Italy S.R.L.	Italy
		Harman Industries Holdings Mauritius Ltd.	Mauritius
		Harman International Mexico, S. de R.L. de C.V.	Mexico
		Harman International Estonia OU	Estonia
		Harman Singapore Pte. Ltd.	Singapore
		Harman da Amazonia Industria Eletronica e Participacoes Ltda.	Brazil
		Harman do Brasil Industria Eletronica e Participacoes Ltda.	Brazil
		Harman Connected Services Engineering Corp.	USA
		Harman Connected Services AB.	Sweden
		Harman Connected Services UK Ltd.	United Kingdom

Listing	No. of affiliates	Name of affiliates	Country
		Harman Connected Services Corp. India Pvt. Ltd.	India
		Global Symphony Technology Group Private Ltd.	Mauritius
		Samsung Semiconductor Europe Limited	United Kingdom
		Samsung Semiconductor Europe GmbH	Germany
		Samsung Electronics GmbH	Germany
		Samsung Electronics Czech and Slovak s.r.o.	Czech Republic
		SAMSUNG ELECTRONICS BALTICS SIA	Latvia
		Samsung Electronics West Africa Ltd.	Nigeria
		Samsung Electronics East Africa Ltd.	Kenya
		Samsung Electronics Saudi Arabia Ltd.	Saudi Arabia
		Samsung Electronics Israel Ltd.	Israel
		Samsung Electronics Tunisia S.A.R.L	Tunisia
		Samsung Electronics Pakistan(Private) Ltd.	Pakistan
		Samsung Electronics South Africa Production (pty) Ltd.	South Africa
		Samsung Electronics Turkiye	Turkiye
		Samsung Electronics Industry and Commerce Ltd.	Turkiye
		Samsung Semiconductor Israel R&D Center, Ltd.	Israel
		Samsung Electronics Levant Co.,Ltd.	Jordan
		Samsung Electronics Maghreb Arab	Morocco
		Samsung Electronics Venezuela, C.A.	Venezuela
		Samsung Electronics Peru S.A.C.	Peru
		Samsung Electronics Ukraine Company LLC	Ukraine
		Samsung R&D Institute Ukraine	Ukraine
		Samsung R&D Institute Rus LLC	Russian Fed.
		Samsung Electronics Central Eurasia LLP	Kazakhstan
		Samsung Electronics Caucasus Co. Ltd	Azerbaijan
		Samsung Electronics Uzbekistan FC LLC	Uzbekistan
		Corephotonics Ltd.	Israel
		Samsung Nanoradio Design Center	Sweden
		Harman Professional Denmark ApS	Denmark
		Studer Professional Audio GmbH	Switzerland
		Martin Professional Japan Ltd.	Japan
		Harman International Romania SRL	Romania
		Apostera UA, LLC	Ukraine
		Harman Becker Automotive Systems GmbH	Germany
		Harman Deutschland GmbH	Germany
		Harman Becker Automotive Systems Manufacturing Kft	Hungary
		Harman RUS CIS LLC	Russian Fed.
		Harman Holding GmbH & Co. KG	Germany
		Harman Management GmbH	Germany
		Harman Hungary Financing Ltd.	Hungary
		Harman Connected Services OOO	Russian Fed.
		Harman Professional Kft	Hungary
		Harman Consumer Nederland B.V.	Netherlands
		Red Bend Ltd.	Israel
		Harman International Industries Limited	United Kingdom
		AKG Acoustics GmbH	Austria
		Harman Audio Iberia Espana Sociedad Limitada	Spain
		Harman Holding Limited	Hong Kong

Listing	No. of affiliates	Name of affiliates	Country
		Harman Finland Oy	Finland
		Harman Connected Services GmbH	Germany
		Harman Connected Services Poland Sp.zoo	Poland
		Harman Connected Services Solutions (Chengdu) Co., Ltd.	China
		Harman International Industries PTY Ltd.	Australia
		Harman de Mexico, S. de R.L. de C.V.	Mexico
		Harman Connected Services Morocco	Morocco
		Samsung Electronics Switzerland GmbH	Switzerland
		Samsung Electronics Romania LLC	Romania
		SAMSUNG Zhilabs, S.L.	Spain
		Porta Nuova Varesine Building 2 S.r.l.	Italy
		Samsung Electronics Poland Manufacturing SP.Zo.o	Poland
		Samsung Electronics Greece S.M.S.A	Greece
		Samsung Electronics Air Conditioner Europe B.V.	Netherlands
		FOODIENT LTD.	United Kingdom
		Samsung Denmark Research Center ApS	Denmark
		Samsung Cambridge Solution Centre Limited	United Kingdom
		Samsung Electronics Japan Co., Ltd.	Japan
		Samsung Electronics Singapore Pte. Ltd.	Singapore
		Samsung Electronics New Zealand Limited	New Zealand
		Samsung Electronics Philippines Corporation	Philippines
		Samsung R&D Institute BanglaDesh Limited	Bangladesh
		Samsung Electronics Vietnam Co., Ltd.	Vietnam
		Samsung Electronics Vietnam THAINGUYEN Co., Ltd.	Vietnam
		Samsung Electronics HCMC CE Complex Co., Ltd.	Vietnam
		Samsung Nepal Services Pvt, Ltd	Nepal
		Red Brick Lane Marketing Solutions Pvt. Ltd.	India
		PT Samsung Telecommunications Indonesia	Indonesia
		Laos Samsung Electronics Sole Co., Ltd	Laos
		iMarket Asia Co., Ltd.	Hong Kong
		Samsung Suzhou Electronics Export Co., Ltd.	China
		Samsung Mobile R&D Center China-Guangzhou	China
		Samsung R&D Institute China-Shenzhen	China
		Beijing Samsung Telecom R&D Center	China
		Samsung Electronics China R&D Center	China
		Harman (Suzhou) Audio and Infotainment Systems Co., Ltd.	China
		Harman Technology (Shenzhen) Co., Ltd.	China
		Harman (China) Technologies Co., Ltd.	China
		Harman Commercial (Shanghai) Co., Ltd.	China
		Harman International (China) Holdings Co., Ltd.	China
		Harman Automotive Electronic Systems (Suzhou) Co., Ltd.	China
		Harman International (India) Private Limited	India
		Samsung Electronics Latinoamerica Miami, Inc.	USA
		Samsung Electronica Colombia S.A.	Colombia
		Samsung Electronics Panama. S.A.	Panama
		Samsung SDI Japan Co., Ltd.	Japan
		Samsung SDI America, Inc.	USA
		Samsung SDI Hungary., Zrt.	Hungary
		Samsung SDI Europe GmbH	Germany



Listing	No. of affiliates	Name of affiliates	Country
		Samsung SDI Battery Systems GmbH	Austria
		Samsung SDI Vietnam Co., Ltd.	Vietnam
		Samsung SDI Energy Malaysia Sdn, Bhd.	Malaysia
		Samsung SDI India Private Limited	India
		Samsung SDI(Hong Kong) Ltd.	Hong Kong
		Samsung SDI China Co., Ltd.	China
		Samsung SDI-ARN (Xi'An) Power Battery Co., Ltd.	China
		Samsung SDI (Tianjin) Battery Co.,Ltd.	China
		STARPLUS ENERGY LLC.	USA
		Samsung SDI South East Asia PTE LTD	Singapore
		SAMSUNG SDI WUXI CO.,LTD.	China
		Tianjin Samsung SDI Co., Ltd.	China
		Samsung Electro-Mechanics Japan Co., Ltd.	Japan
		Samsung Electro-Mechanics America, Inc.	USA
		Samsung Electro-Mechanics Mexico, S.A. de C.V.	Mexico
		Samsung Electro-Mechanics GmbH	Germany
		Samsung Electro-Mechanics Philippines, Corp.	Philippines
		Calamba Premier Realty Corporation	Philippines
		Samsung Electro-Mechanics Pte Ltd.	Singapore
		Samsung Electro-Mechanics Vietnam Co., Ltd.	Vietnam
		Samsung Electro-Mechanics Software India Bangalore Private Limited	India
		Tianjin Samsung Electro-Mechanics Co., Ltd.	China
		Samsung High-Tech Electro-Mechanics(Tianjin) Co., Ltd.	China
		Samsung Electro-Mechanics (Shenzhen) Co., Ltd.	China
		Kunshan Samsung Electro-Mechanics Co., Ltd.	China
		Batino Realty Corporation	Philippines
		Samsung Fire & Marine Management Corporation	USA
		SAMSUNG FIRE & MARINE INSURANCE COMPANY OF EUROPE LTD.	United Kingdom
		PT. Asuransi Samsung Tugu	Indonesia
		SAMSUNG VINA INSURANCE COMPANY LIMITED	Vietnam
		Samsung Reinsurance Pte. Ltd.	Singapore
		Samsung Property & Casualty Insurance Company(China), Ltd	China
		Samsung Fire & Marine Insurance Management Middle East Limited	Utd.Arab Emir.
		Camellia Consulting Corporation	USA
		Samsung Heavy Industries India Pvt.Ltd.	India
		SAMSUNG HEAVY INDUSTRIES (M) SDN.BHD	Malaysia
		Samsung Heavy Industries(Rongcheng) Co., Ltd	China
		SAMSUNG HEAVY INDUSTRIES NIGERIA LIMITED	Nigeria
		Samsung Heavy Industries Mozambique LDA	Mozambique
		Samsung Heavy Industries Rus LLC	Russian Fed.
		SHI - MCI FZE	Nigeria
		Samsung Life Insurance (Thailand) Public Co., Ltd	Thailand
		Beijing Samsung Real Estate Co.. Ltd	China
		Samsung Asset Management (New York), Inc.	USA
		Samsung Global SME Private Equity Manager Fund Co., Ltd.	Cayman Islands
		Samsung Asset Management U.S. Holdings, Inc.	USA
		Samsung Private Equity Fund 2022 GP, Ltd.	Cayman Islands
		Samsung Co-Investment 2021 GP, Ltd.	Cayman Islands
		Samsung Asset Management(London) Ltd.	United Kingdom

Listing	No. of affiliates	Name of affiliates	Country
		Samsung Private Equity Manager I Co., Ltd.	Cayman Islands
		Samsung Asset Management (Hong Kong) Ltd.	Hong Kong
		Samsung C&T Japan Corporation	Japan
		Samsung C&T America Inc.	USA
		Samsung E&C America, INC.	USA
		Samsung Renewable Energy Inc.	Canada
		Samsung C&T Oil & Gas Parallel Corp.	USA
		Samsung C&T Lima S.A.C.	Peru
		Samsung C&T Deutschland GmbH	Germany
		Samsung C&T U.K. Ltd.	United Kingdom
		Samsung C&T ECUK Limited	United Kingdom
		Whessoe engineering Limited	United Kingdom
		SAM investment Manzanilo.B.V	Netherlands
		Samsung C&T Corporation Poland LLC	Poland
		Samsung C&T (KL) Sdn.,Bhd.	Malaysia
		Samsung C&T Malaysia SDN. BHD	Malaysia
		Erdsam Co., Ltd.	Hong Kong
		Samsung C&T India Private Limited	India
		Samsung C&T Corporation India Private Limited	India
		Samsung C&T Singapore Pte., Ltd.	Singapore
		SAMSUNG C&T Mongolia LLC.	Mongolia
		Samsung C&T Eng.&Const. Mongolia LLC.	Mongolia
		S&WOO CONSTRUCTION PHILIPPINES,INC.	Philippines
		VSSC STEEL CENTER LIMITED LIABILITY COMPANY	Vietnam
		Vista Contracting and Investment Global Pte. Ltd.	Singapore
		CHEIL HOLDING INC.	Philippines
		Samsung C&T Renewable Energy Australia Pty Ltd	Australia
		Samsung C&T Hongkong Ltd.	Hong Kong
		Samsung C&T Taiwan Co., Ltd.	Taiwan
		SAMSUNG C&T (SHANGHAI) CO., LTD.	China
		Samsung C&T (Xi'an) Co., Ltd.	China
		SAMSUNG C&T CORPORATION SAUDI ARABIA	Saudi Arabia
		SAM Gulf Investment Limited	Utd.Arab Emir.
		Samsung C&T Chile Copper SpA	Chile
		SCNT Power Kelar Inversiones Limitada	Chile
		Samsung C&T Corporation Rus LLC	Russian Fed.
		CHEIL INDUSTRIES ITALY SRL	Italy
		Samsung Fashion Trading Co. ,Ltd	China
		SAMSUNG C&T CORPORATION VIETNAM CO., LTD	Vietnam
		Samsung C&T Corporation UEM Construction JV Sdn Bhd	Malaysia
		WELSTORY VIETNAM COMPANY LIMITED	Vietnam
		Shanghai Ever-Hongjun Business Mgt Service Co.,LTD	China
		Shanghai Welstory Food Company Limited	China
		LANGUAGE TESTING INTERNATIONAL, INC.	USA
		PENGTAI CHINA CO.,LTD.	China
		PengTai Taiwan Co., Ltd.	Taiwan
		PENGTAI E-COMMERCE CO.,LTD	China
		Beijing Pengtai Borui E-commerce Co.,Ltd.	China
		Medialytics Inc.	China

Listing	No. of affiliates	Name of affiliates	Country
		Beijing Pengtai Baozun E-commerce Co., Ltd.	China
		iMarket China Co., Ltd.	China
		Samsung Securities (America), Inc.	USA
		Samsung Securities (Europe) Limited.	United Kingdom
		Samsung Securities (Asia) Limited.	Hong Kong
		Samsung SDS America, Inc.	USA
		SAMSUNG SDS GSCL Canada., Ltd.	Canada
		Samsung SDS Europe, Ltd.	United Kingdom
		Samsung SDS Global SCL Hungary, Kft.	Hungary
		Samsung SDS Global SCL Slovakia, S.R.O.	Slovakia
		Samsung SDS Global SCL Poland Sp. Z.o.o.	Poland
		Samsung GSCL Sweden AB	Sweden
		Samsung SDS Global SCL France SAS	France
		Samsung SDS Global SCL Italy S.R.L. A Socio Unico	Italy
		Samsung SDS Global Supply Chain Logistics Spain S.L.U	Spain
		Samsung SDS Global SCL Netherlands Cooperatief U.A.	Netherlands
		Samsung SDS Global SCL Germany GmbH	Germany
		Samsung SDS Global SCL Romania S.R.L	Romania
		Samsung SDS Asia Pacific Pte, Ltd.	Singapore
		Samsung Data Systems India Private Limited	India
		Samsung SDS Vietnam Co., Ltd.	Vietnam
		PT. Samsung SDS Global SCL Indonesia	Indonesia
		Samsung SDS Global SCL Philippines Co., Ltd.Inc.	Philippines
		Samsung SDS Global SCL Thailand Co.,Ltd	Thailand
		SAMSUNG SDS MALAYSIA SDN. BHD.	Malaysia
		Samsung SDS Global SCL Australia Pty.,Ltd.	Australia
		SDS-ACUTECH CO., Ltd.	Thailand
		ALS SDS Joint Stock Company	Vietnam
		SDS-MP Logistics Joint Stock Company	Vietnam
		Samsung SDS China Co., Ltd.	China
		Samsung SDS Global SCL Hong Kong Limited	Hong Kong
		SAMSUNG SDS Global SCL Egypt	Egypt
		Samsung SDS Global SCL South Africa (PTY) Ltd.	South Africa
		Samsung SDS Global SCL Nakliyat ve Lojistik Anonim Sirketi	Turkiye
		Samsung SDS Global Supply Chain Logistics Middle East DWC-LLC	Utd.Arab Emir.
		Samsung SDS Latin America Tecnologia E Logistica LTDA.	Brazil
		INTE-SDS Logistics S.A. de C.V.	Mexico
		Samsung SDS Rus Limited Liability Company	Russian Fed.
		Samsung SDS Mexico, S.A. DE C.V.	Mexico
		Samsung SDS Global SCL Panama S.A.	Panama
		Samsung SDS Global SCL Chile Limitada	Chile
		Samsung SDS Global SCL Peru S.A.C	Peru
		Samsung SDS Global SCL Colombia S.A.S	Colombia
		Samsung E&A America Inc.	USA
		Samsung Project Management Inc.	Canada
		Samsung E&A Hungary Co. Ltd.	Hungary
		Samsung Engineering Italy S.R.L.	Italy
		Samsung E&A Malaysia SDN. BHD.	Malaysia
		PT Samsung Engineering Indonesia Co., Ltd.	Indonesia

Listing	No. of affiliates	Name of affiliates	Country
		Samsung E&A (Thailand) Co., Ltd.	Thailand
		Samsung E&A India Private Limited	India
		Samsung E&A Vietnam Co., Ltd.	Vietnam
		GLOBAL MODULE CENTER JOINT STOCK COMPANY	Vietnam
		Samsung Engineering Global Private Limited	India
		Samsung E&A Shanghai Co., Ltd.	China
		Samsung E&A Xi'an Co., Ltd.	China
		Samsung Saudi Arabia Co., Ltd.	Saudi Arabia
		Muharrag Wastewater Services Company W.L.L.	Bahrain
		Muharrag STP Company B.S.C.	Bahrain
		Muharrag Holding Company 1 Ltd.	Utd.Arab Emir.
		SAMSUNG ENGINEERING NEC COMPANY LIMITED	Saudi Arabia
		Samsung E&A Mexico S.A. de C.V.	Mexico
		Samsung Engineering Trinidad Co., Ltd.	Trinidad,Tobago
		Samsung Ingenieria Manzanillo, S.A. De C.V.	Mexico
		Grupo Samsung E&A Mexico, S.A. De C.V. (GSIM)	Mexico
		Samsung E&A Energia S.A. De C.V.	Mexico
		Samsung E&A Bolivia S.A	Bolivia
		Samsung E&A DUBA S.A. De C.V.	Mexico
		Samsung Engineering Kazakhstan L.L.P.	Kazakhstan
		Samsung E&A America Construction LLC	USA
		Samsung E&A Louisiana Construction LLC	USA
		Samsung EPC Company Ltd.	Saudi Arabia
		Muharrag Holding Company 2 Ltd.	Utd.Arab Emir.
		Asociados Constructores DBNR, S.A. de C.V.	Mexico
		S-1 CORPORATION HUNGARY LLC	Hungary
		S-1 CORPORATION VIETNAM CO., LTD	Vietnam
		Samsung Beijing Security Systems	China
		Pengtai Greater China Company Limited	Hong Kong
		PENGTAI INTERACTIVE ADVERTISING CO.,LTD	China
		Cheil USA Inc.	USA
		Cheil Central America Inc.	USA
		Iris Worldwide Holdings Limited	United Kingdom
		CHEIL EUROPE LIMITED	United Kingdom
		Cheil Germany GmbH	Germany
		Cheil France SAS	France
		CHEIL SPAIN S.L	Spain
		Cheil Benelux B.V.	Netherlands
		Cheil Nordic AB	Sweden
		Cheil India Private Limited	India
		Cheil (Thailand) Ltd.	Thailand
		Cheil Singapore Pte. Ltd.	Singapore
		CHEIL VIETNAM COMPANY LIMITED	Vietnam
		Cheil Integrated Marketing Philippines, Inc.	Philippines
		CHEIL MALAYSIA SDN. BHD.	Malaysia
		Cheil New Zealand Limited	New Zealand
		Cheil Worldwide Australia Pty Ltd	Australia
		CHEIL CHINA	China
		Cheil Hong Kong Ltd.	Hong Kong

Listing	No. of affiliates	Name of affiliates	Country
		Caishu (Shanghai) Business Consulting Co., Ltd	China
		Cheil MEA FZ-LLC	Utd.Arab Emir.
		Cheil South Africa (Pty) Ltd	South Africa
		CHEIL KENYA LIMITED	Kenya
		Cheil Communications Nigeria Ltd.	Nigeria
		Cheil Worldwide Inc./Jordan LLC.	Jordan
		Cheil Ghana Limited	Ghana
		Cheil Egypt LLC	Egypt
		Cheil Maghreb LLC	Morocco
		Cheil Brasil Comunicacoes Ltda.	Brazil
		Cheil Mexico, S.A. de C.V.	Mexico
		Cheil Chile SpA.	Chile
		Cheil Peru S.A.C.	Peru
		CHEIL ARGENTINA S.A.	Argentina
		Cheil Rus LLC	Russian Fed.
		Cheil Ukraine LLC	Ukraine
		Cheil Kazakhstan LLC	Kazakhstan
		Samsung Hospitality America Inc.	USA
		Shilla Travel Retail Pte. Ltd.	Singapore
		Samsung Shilla Business Service Beijing Co., Ltd.	China
		Shilla Travel Retail Hong Kong Limited	Hong Kong
		HDC SHILLA (SHANGHAI) CO., LTD	China
		Samsung Hospitality U.K. Ltd.	United Kingdom
		Samsung Hospitality Europe GmbH	Germany
		SAMSUNG HOSPITALITY ROMANIA SRL	Romania
		Samsung Hospitality Vietnam Co., Ltd.	Vietnam
		Samsung Hospitality Philippines Inc.	Philippines
		Samsung Hospitality India Private Limited	India
		Samsung Venture Investment (Shanghai) Co., Ltd.	China
		Iris (USA) Inc.	USA
		Iris Atlanta, Inc.	USA
		89 Degrees, Inc.	USA
		The Barbarian Group LLC	USA
		McKinney Ventures LLC	USA
		Iris Nation Worldwide Limited	United Kingdom
		Iris Americas, Inc.	USA
		Irisnation Latina No.2, S. de R.L. de C.V.	Mexico
		Irisnation Latina, S. de R.L. de C.V.	Mexico
		Pricing Solutions Ltd	Canada
		Iris London Limited	United Kingdom
		Iris Promotional Marketing Ltd	United Kingdom
		Iris Ventures 1 Limited	United Kingdom
		Founded Partners Limited	United Kingdom
		Iris Digital Limited	United Kingdom
		Iris Amsterdam B.V.	Netherlands
		Iris Ventures (Worldwide) Limited	United Kingdom
		WDMP Limited	United Kingdom
		Iris Services Limited Dooel Skopje	Macedonia
		Irisnation Singapore Pte. Ltd.	Singapore

Listing	No. of affiliates	Name of affiliates	Country
		Iris Worldwide Integrated Marketing Private Limited	India
		Iris Worldwide (Thailand) Limited	Thailand
		Iris Partners LLP	United Kingdom
		Holdings BR185 Limited	Brit.Virgin Is.
		Iris Germany GmbH	Germany
		Founded, Inc.	USA
		Pepper NA, Inc.	USA
		Beattie McGuinness Bungay Limited	United Kingdom
		Cheil Italia S.r.l	Italy
		Cheil Austria GmbH	Austria
		Centrade Integrated SRL	Romania
		Centrade Cheil HU Kft.	Hungary
		Centrade Cheil Adriatic D.O.O.	Serbia/Monten.
		Experience Commerce Software Private Limited	India
		PT. CHEIL WORLDWIDE INDONESIA	Indonesia
		Cheil Philippines Inc.	Philippines
		Shilla Retail Plus Pte. Ltd.	Singapore
		Tianjin Samsung International Travel Service Co., Ltd	China
		Shilla Retail Limited	Macau
		BNY Trading Hong Kong Limited	Hong Kong
		One Agency FZ-LLC	Utd.Arab Emir.
		One RX Project Management Design and Production Limited Company	Turkiye
		ONE RETAIL EXPERIENCE KOREA LIMITED	United Kingdom
		One RX India Private Limited	India
		ONE RX INTERIOR DECORATION L.L.C	Utd.Arab Emir.
		ONE AGENCY PRINTING L.L.C	Utd.Arab Emir.
		Brazil 185 Participacoes Ltda	Brazil
		Iris Router Marketing Ltda	Brazil

### 3. Equity investments in other corporations (Details)

The total book value of equity investments in other corporations as of June 30, 2024 is KRW 59,741.4 billion (for the purpose of management participation, etc.).

[As of June 30, 2024]

(1,000 shares, KRW million, %)

Listing	Name of Company	Acquisition Date	Objective	Acquisition Cost	Beginning Balance			Increase/Decrease			Ending Balance			Current Financial Stats	
					Qty	Owner ship (%)	Book Value	Acquisition/Disposal		Valuation	Qty	Owner ship (%)	Book Value	Total Asset	Net Income (Loss)
								Qty	Amount						
Listed	Samsung Electro-Mechanics	1977.01	Management Participation	250	17,693	23.7	445,244	-	-	-	17,693	23.7	445,244	11,657,872	450,482
Listed	Samsung SDI	1977.01	Management Participation	304	13,463	19.6	1,242,605	-	-	-	13,463	19.6	1,242,605	34,038,860	2,066,047
Listed	Samsung Heavy Industries	1977.09	Management Participation	125	134,027	15.2	1,038,711	-	-	214,444	134,027	15.2	1,253,155	15,593,389	-155,556
Listed	Hotel Shilla	1979.12	Management Participation	252	2,005	5.1	131,108	-	-	-23,656	2,005	5.1	107,453	3,006,539	85,978
Listed	Cheil Worldwide	1988.09	Management Participation	185	29,038	25.2	491,599	-	-	-	29,038	25.2	491,599	2,889,505	190,122
Listed	Samsung SDS	1992.07	Management Participation	6,160	17,472	22.6	560,827	-	-	-	17,472	22.6	560,827	12,321,025	701,326
Listed	Samsung BioLogics	2011.04	Management Participation	30,000	22,217	31.2	1,595,892	-	-	-	22,217	31.2	1,595,892	16,046,197	857,691
Unlisted	Samsung Display	2012.04	Management Participation	16,009,547	221,969	84.8	18,509,307	-	-	-	221,969	84.8	18,509,307	65,328,568	8,268,314
Unlisted	STECO	1995.06	Management Participation	24,000	2,590	70.0	35,861	-	-	-	2,590	70.0	35,861	132,675	779
Unlisted	SEMES	1992.12	Management Participation	1,000	2,173	91.5	71,906	-	-	-	2,173	91.5	71,906	2,187,919	58,754
Unlisted	Samsung Electronics Service	1998.01	Management Participation	30,000	6,000	99.3	48,121	-	-	-	6,000	99.3	48,121	795,640	10,348
Unlisted	Samsung Electronics Sales	2000.12	Management Participation	3,100	1,767	100.0	247,523	-	-	-	1,767	100.0	247,523	1,358,597	2,515
Unlisted	Samsung Electronics Logitech	1999.04	Management Participation	76	1,011	100.0	46,669	-	-	-	1,011	100.0	46,669	465,079	16,540
Unlisted	Samsung Medison	2011.02	Management Participation	286,384	87,350	68.5	464,232	-	-	-	87,350	68.5	464,232	629,302	81,673
Unlisted	Samsung Global Research	1991.05	Management Participation	320	3,576	29.8	24,942	-	-	-	3,576	29.8	24,942	183,742	203
Unlisted	Samsung Venture Investment	1999.11	Management Participation	4,900	980	16.3	32,286	-	-	1,023	980	16.3	33,309	199,098	2,185
Unlisted	SVIC #21	2011.11	Management Participation	19,800	0	99.0	99	-	-	-	0	99.0	99	82,411	4,596
Unlisted	SVIC #22	2011.11	Management Participation	19,800	0	99.0	14,870	0	-1,653	-	0	99.0	13,217	17,438	-3,932
Unlisted	SVIC #26	2014.11	Management Participation	19,800	1	99.0	60,803	0	-1,950	-	1	99.0	58,852	27,631	-7,983

Listing	Name of Company	Acquisition Date	Objective	Acquisition Cost	Beginning Balance			Increase/Decrease			Ending Balance			Current Financial Stats	
					Qty	Owner ship (%)	Book Value	Acquisition/Disposal		Valuation	Qty	Owner ship (%)	Book Value	Total Asset	Net Income (Loss)
								Qty	Amount						
Unlisted	SVIC #28	2015.02	Management Participation	7,425	0	99.0	27,566	-	-	-	0	99.0	27,566	337,949	-24,526
Unlisted	SVIC #32	2016.08	Management Participation	19,800	1	99.0	119,364	0	-13,266	-	1	99.0	106,098	223,258	-35,160
Unlisted	SVIC #33	2016.11	Management Participation	4,950	1	99.0	112,524	-	-	-	1	99.0	112,524	315,348	-9,228
Unlisted	SVIC #42	2018.11	Management Participation	4,950	0	99.0	44,444	0	486	-	0	99.0	44,930	33,102	-3,706
Unlisted	SVIC #45	2019.05	Management Participation	19,800	2	99.0	158,746	0	-4,950	-	2	99.0	153,796	175,893	-12,472
Unlisted	SVIC #52	2021.05	Management Participation	9,900	0	99.0	49,599	0	6,435	-	1	99.0	56,034	77,174	30,345
Unlisted	SVIC #56	2021.11	Management Participation	22,084	1	99.0	56,516	-	-	-	1	99.0	56,516	56,070	556
Unlisted	SVIC #57	2022.08	Management Participation	14,850	0	99.0	41,491	0	10,672	-	1	99.0	52,163	37,155	-4,393
Unlisted	Semiconductor Growth Fund	2017.03	Management Participation	500	32,306,980	66.7	32,307	-11,803,085	-11,803	-	20,503,895	66.7	20,504	58,356	15,619
Unlisted	System LSI Mutual benefit private equity trust	2020.04	Management Participation	25,000	50,000,000	62.5	50,000	-	-	-	50,000,000	62.5	50,000	79,856	194
Unlisted	Semiconductor Ecosystem General Private Equity Trust	2023.07	Management Participation	500	500,000	66.7	500	3,000,000	3,000	-	3,500,000	66.7	3,500	753	-249
Unlisted	Stellarforest	2022.12	Management Participation	900	180	100.0	900	-	-	-	180	100.0	900	7,255	1,227
Listed	Rainbow Robotics	2023.01	Management Participation	58,982	2,854	14.8	58,982	-	-	-	2,854	14.8	58,982	151,014	19,160
Listed	iMarket Korea	2000.12	Management Participation	1,900	647	1.9	5,560	-	-	65	647	1.9	5,625	1,373,717	24,301
Listed	KT Skylife	2001.12	Simple Investment	3,344	240	0.5	1,421	-	-	-175	240	0.5	1,246	1,215,698	-113,745
Listed	Mona Yongpyong	2007.05	Simple Investment	1,869	400	0.8	1,220	-	-	120	400	0.8	1,340	1,004,928	10,003
Listed	ATech Solution	2009.11	Simple Investment	26,348	1,592	15.9	17,241	-	-	-4,155	1,592	15.9	13,086	269,808	1,359
Listed	Wonik Holdings	2013.12	Management Participation	15,411	1,759	2.3	5,928	-	-	70	1,759	2.3	5,999	1,830,611	-37,468
Listed	Wonik IPS	2016.04	Management Participation	16,214	1,851	3.8	62,839	-	-	1,573	1,851	3.8	64,413	1,084,863	-13,508
Listed	Dongjin Semichem	2017.11	Management Participation	48,277	2,468	4.8	95,507	-	-	3,332	2,468	4.8	98,839	1,606,588	123,534
Listed	Soulbrain	2020.07	Management Participation	24,866	437	5.6	132,951	-	-	-5,904	437	5.6	127,047	996,470	129,491



Listing	Name of Company	Acquisition Date	Objective	Acquisition Cost	Beginning Balance			Increase/Decrease			Ending Balance			Current Financial Stats	
					Qty	Ownership (%)	Book Value	Acquisition/Disposal		Valuation	Qty	Ownership (%)	Book Value	Total Asset	Net Income (Loss)
								Qty	Amount						
Listed	S&S Tech	2020.08	Management Participation	65,933	1,716	8.0	77,740	-	-	-16,475	1,716	8.0	61,265	256,771	25,855
Listed	YC Corp.	2020.08	Management Participation	47,336	9,602	11.7	47,864	-	-	119,300	9,602	11.7	167,164	479,837	13,436
Listed	KCTech	2020.11	Management Participation	20,720	1,022	4.9	27,395	-	-	18,962	1,022	4.9	46,357	499,635	31,701
Listed	lotvacuum	2020.11	Management Participation	18,990	1,268	7.1	25,544	-	-	-5,768	1,268	7.1	19,776	366,912	49,060
Listed	NEW POWER PLASMA	2020.11	Management Participation	12,739	2,141	4.9	11,240	-	-	2,355	2,141	4.9	13,595	673,589	14,825
Listed	FineSemitech	2021.03	Management Participation	43,009	1,523	7.0	37,541	-	-	21,017	1,523	7.0	58,558	412,550	-15,073
Listed	DNF	2021.08	Management Participation	20,964	810	7.0	19,400	-	-	-4,496	810	7.0	14,905	165,587	5,174
Listed	Marvell	2021.10	Simple Investment	11,705	173	0.0	13,468	-	-	3,357	173	0.0	16,825	27,372,028	-1,219,132
Listed	SoundHound Inc.	2016.12	Simple Investment	7,059	1,703	0.9	4,655	-	-	4,690	1,703	0.9	9,345	194,857	-116,162
Unlisted	The Korea Economic Daily	1987.05	Simple Investment	150	72	0.4	365	-	-	-	72	0.4	365	707,762	33,516
Unlisted	Korea Business Banking	1995.01	Simple Investment	5,000	1,000	17.2	2,964	-	-	-	1,000	17.2	2,964	86,700	1,164
Unlisted	Cyber Bank	2000.12	Simple Investment	8,000	1,083	7.5	-	-	-	-	1,083	7.5	-	-	-
Unlisted	FineChips	2001.12	Simple Investment	10	2	3.3	10	-	-	-	2	3.3	10	16,450	883
Unlisted	Inkel	2006.11	Simple Investment	130	0	0.0	0	-	-	-	0	0.0	0	7,848	-4,058
Unlisted	Intellectual Discovery	2011.05	Simple Investment	5,000	357	10.7	1,922	-	-	-	357	10.7	1,922	71,809	3,682
Unlisted	Maltani Corp.	2012.04	Simple Investment	16,544	45	15.0	7,891	-	-	79	45	15.0	7,970	86,711	750
Unlisted	Pantech	2013.06	Simple Investment	53,000	53,000	10.0	-	-	-	-	53,000	10.0	-	-	-
Unlisted	AI Research Institute	2016.07	Simple Investment	3,000	600	14.3	3,000	-	-	-	600	14.3	3,000	4,107	1,832

Unlisted	Mico Ceramics	2020.11	Managemen t Participation	21,667	747	13.7	33,973	-	-	5,648	747	13.7	39,621	250,981	42,068
Unlisted	Shinsung E&C	2010.07	Simple Investment	1	0	0.0	0	-	-	-	0	0.0	0	139,416	-9,416
Unlisted	Woobang	2010.07	Simple Investment	0	1	0.0	0	-	-	-	1	0.0	0	514,572	-34,684
Unlisted	Sambo Computer	2012.09	Simple Investment	0	0	0.0	0	-	-	-	0	0.0	0	49,422	-3,055

Listing	Name of Company	Acquisition Date	Objective	Acquisition Cost	Beginning Balance			Increase/Decrease			Ending Balance			Current Financial Stats	
					Qty	Owner ship (%)	Book Value	Acquisition/Disposal		Valuation	Qty	Owner ship (%)	Book Value	Total Asset	Net Income (Loss)
								Qty	Amount						
Unlisted	Daewoo Development	2012.12	Simple Investment	0	0	0.0	0	-	-	-	0	0.0	0	149,587	-136,767
Unlisted	Daewoo Songdo Development	2012.12	Simple Investment	0	9	0.0	0	-	-	-	9	0.0	0	19,369	-350
Unlisted	Zyle Motor Corp.	2012.12	Simple Investment	0	1	0.0	0	-	-	-	1	0.0	0	196,194	-23,417
Unlisted	Sung Won Corp.	2014.04	Simple Investment	0	1	0.0	0	-1	0	-	0	-	-	27,744	-627
Unlisted	Inhee	2014.04	Simple Investment	0	0	0.1	0	-	-	-	0	0.1	0	2,418	177
Unlisted	JNT	2011.02	Simple Investment	1,800	0	24.0	1,240	-	-	-	0	24.0	1,240	2,173	18
Unlisted	L&S	2012.07	Simple Investment	848	0	7.5	1	-	-1	-	-	-	-	-	-
Unlisted	Bearport Resort	2022.04	Simple Investment	0	51	0.5	0	-	-	-	51	0.5	0	115,380	-9,846
Unlisted	SEA	1978.07	Management Participation	59,362	492	100.0	17,166,557	-	-	-	492	100.0	17,166,557	41,926,899	477,338
Unlisted	SECA	1992.08	Management Participation	3,823	0	100.0	90,922	-	-	-	0	100.0	90,922	1,302,924	75,479
Unlisted	SEDA	1994.01	Management Participation	13,224	77,205,709	87.0	647,620	-	-	-	77,205,709	87.0	647,620	5,542,627	333,812
Unlisted	SEM	1995.07	Management Participation	3,032	3,837	63.6	165,638	-	-	-	3,837	63.6	165,638	2,153,032	148,873
Unlisted	SELA	1989.04	Management Participation	319	40	100.0	86,962	-	-	-	40	100.0	86,962	649,150	45,612
Unlisted	SEASA	1996.06	Management Participation	4,696	21,854	98.0	6,779	-	-	-	21,854	98.0	6,779	83,075	18,833
Unlisted	SECH	2002.12	Management Participation	597	0	4.1	597	-	-	-	0	4.1	597	524,530	25,826
Unlisted	SEUK	1995.07	Management Participation	33,908	109,546	100.0	433,202	-	-	-	109,546	100.0	433,202	2,902,722	185,113
Unlisted	SEL	1998.12	Management Participation	8,280	4,393	100.0	-	-	-	-	4,393	100.0	-	7,212	-
Unlisted	SEHG	1982.02	Management Participation	28,042	0	100.0	354,846	-	-	-	0	100.0	354,846	438,172	93,092
Unlisted	SEF	1991.08	Management Participation	230	2,700	100.0	234,115	-	-	-	2,700	100.0	234,115	1,265,823	65,460
Unlisted	SEI	1993.05	Management Participation	862	677	100.0	143,181	-	-	-	677	100.0	143,181	1,053,955	56,071
Unlisted	SESA	1989.01	Management Participation	3,276	8,021	100.0	142,091	-	-	-	8,021	100.0	142,091	1,266,167	46,746
Unlisted	SEP	1982.09	Management Participation	204	1,751	100.0	37,616	-	-	-	1,751	100.0	37,616	304,248	10,591

Listing	Name of Company	Acquisition Date	Objective	Acquisition Cost	Beginning Balance			Increase/Decrease			Ending Balance			Current Financial Stats	
					Qty	Owner ship (%)	Book Value	Acquisition/Disposal		Valuation	Qty	Owner ship (%)	Book Value	Total Asset	Net Income (Loss)
								Qty	Amount						
Unlisted	SEH	1991.05	Management Participation	1,954	753	100.0	650,157	-	-	-	753	100.0	650,157	1,426,079	577,538
Unlisted	SELS	1991.05	Management Participation	18,314	1,306	100.0	24,288	-	-	-	1,306	100.0	24,288	1,639,004	4,984
Unlisted	SEBN	1995.07	Management Participation	236	539,138	100.0	914,751	-	-	-	539,138	100.0	914,751	1,794,552	140,313
Unlisted	SEEH	2008.01	Management Participation	4,214	0	100.0	1,369,992	-	-	-	0	100.0	1,369,992	9,660,481	103,387
Unlisted	SENA	1992.03	Management Participation	392	1,000	100.0	69,372	-	-	-	1,000	100.0	69,372	591,101	35,047
Unlisted	SESK	2002.06	Management Participation	8,976	0	55.7	263,767	-	-	-	0	55.7	263,767	928,129	83,304
Unlisted	SEPOL	1996.04	Management Participation	5,462	106	100.0	78,267	-	-	-	106	100.0	78,267	1,384,273	108,288
Unlisted	SEAG	2002.01	Management Participation	40	0	100.0	32,162	-	-	-	0	100.0	32,162	519,776	166,348
Unlisted	SERC	2006.01	Management Participation	24,877	0	100.0	188,290	-	-	-	0	100.0	188,290	839,493	40,845
Unlisted	SERK	2007.07	Management Participation	4,600	0	100.0	204,555	-	-	-	0	100.0	204,555	1,030,743	64,771
Unlisted	SEO	1997.01	Management Participation	120	0	100.0	-10,043	-	10,043	-	-	-	-	-	-
Unlisted	SGE	1995.05	Management Participation	827	0	100.0	32,836	-	-	-	0	100.0	32,836	1,027,977	-2,365
Unlisted	SEEG	2012.07	Management Participation	23	0	0.1	39	-	-	-	0	0.1	39	1,348,469	156,005
Unlisted	SSA	1998.12	Management Participation	263	2,000	100.0	32,622	-	-	-	2,000	100.0	32,622	527,416	23,826
Unlisted	SAPL	2006.07	Management Participation	793	877,133	100.0	981,483	-	-	-	877,133	100.0	981,483	22,234,942	14,140,195
Unlisted	SME	2003.05	Management Participation	4,796	17,100	100.0	7,644	-	-	-	17,100	100.0	7,644	618,803	18,490
Unlisted	SDMA	1995.03	Management Participation	21,876	71,400	75.0	18,741	-	-	-	71,400	75.0	18,741	26,388	2,908
Unlisted	SEMA	1989.09	Management Participation	4,378	16,247	100.0	103,402	-	-	-	16,247	100.0	103,402	313,767	23,877
Unlisted	SAVINA	1995.01	Management Participation	5,839	0	100.0	28,365	-	-	-	0	100.0	28,365	110,276	18,161
Unlisted	SEIN	1991.08	Management Participation	7,463	46	100.0	118,909	-	-	-	46	100.0	118,909	1,110,178	170,952
Unlisted	TSE	1988.01	Management Participation	1,390	11,020	91.8	279,163	-	-	-	11,020	91.8	279,163	3,039,379	150,510
Unlisted	SEAU	1987.11	Management Participation	392	53,200	100.0	111,964	-	-	-	53,200	100.0	111,964	612,161	44,768

Listing	Name of Company	Acquisition Date	Objective	Acquisition Cost	Beginning Balance			Increase/Decrease			Ending Balance			Current Financial Stats	
					Qty	Ownership (%)	Book Value	Acquisition/Disposal		Valuation	Qty	Ownership (%)	Book Value	Total Asset	Net Income (Loss)
								Qty	Amount						
Unlisted	SIEL	1995.08	Management Participation	5,414	216,787	100.0	75,263	-	-	-	216,787	100.0	75,263	7,738,259	1,153,256
Unlisted	SRI-Bangalore	2005.05	Management Participation	7,358	17	100.0	31,787	-	-	-	17	100.0	31,787	430,987	79,895
Unlisted	SJC	1975.12	Management Participation	273	1,560	100.0	253,108	-	-	-	1,560	100.0	253,108	1,013,103	-5,381
Unlisted	SRJ	1992.08	Management Participation	3,120	122	100.0	117,257	-	-115,775	-	122	100.0	1,482	136,782	1,792
Unlisted	SCIC	1996.03	Management Participation	23,253	0	100.0	640,452	-	-	-	0	100.0	640,452	10,222,557	189,887
Unlisted	SEHK	1988.09	Management Participation	349	274,250	100.0	79,033	-	-	-	274,250	100.0	79,033	985,438	26,885
Unlisted	SET	1994.11	Management Participation	456	27,270	100.0	112,949	-	-	-	27,270	100.0	112,949	1,797,627	56,467
Unlisted	TSEC	1993.04	Management Participation	15,064	0	48.2	103,134	-	-	-	0	48.2	103,134	382,260	11,732
Unlisted	SSEC	1995.04	Management Participation	32,128	0	69.1	130,551	-	-	-	0	69.1	130,551	636,160	84,614
Unlisted	SESC	2002.09	Management Participation	5,471	0	73.7	34,028	-	-	-	0	73.7	34,028	94,528	10,678
Unlisted	TSTC	2001.03	Management Participation	10,813	0	90.0	260,092	-	-	-	0	90.0	260,092	646,732	5,167
Unlisted	SSS	2001.01	Management Participation	1,200	0	100.0	19,189	-	-	-	0	100.0	19,189	5,262,086	244,210
Unlisted	SCS	2012.09	Management Participation	111,770	0	100.0	5,275,760	-	277,840	-	0	100.0	5,553,600	15,808,283	877,892
Unlisted	SSCX	2016.04	Management Participation	1,141	0	100.0	1,141	-	-	-	0	100.0	1,141	854,932	47,820
Unlisted	SESS	1994.12	Management	18,875	0	100.0	504,313	-	-	-	0	100.0	504,313	869,225	95,067

			t Participation												
Unlisted	TSLED	2012.04	Managemen t Participation	119,519	0	100.0	119,519	-	-	-	0	100.0	119,519	257,820	16,380
Unlisted	SSCR	2006.09	Managemen t Participation	3,405	0	100.0	9,332	-	-	-	0	100.0	9,332	89,911	16,465
Unlisted	TSST Japan	2004.03	Managemen t Participation	1,639	30	49.0	-	-	-	-	30	49.0	-	232,877	-
Unlisted	STE	1996.01	Managemen t Participation	4,206	2	49.0	-	-	-	-	2	49.0	-	7,405	-
Unlisted	Semiconducto r Portal Inc.	2002.12	Simple Investment	38	0	1.2	10	-	-	-	0	1.2	10	2,016	9
Unlisted	Nanosys Inc.	2010.08	Simple Investment	4,774	2,000	0.6	-	-	-	-	2,000	0.6	-	-	21,211

Listing	Name of Company	Acquisition Date	Objective	Acquisition Cost	Beginning Balance			Increase/Decrease			Ending Balance			Current Financial Stats	
					Qty	Ownership (%)	Book Value	Acquisition/Disposal		Valuation	Qty	Ownership (%)	Book Value	Total Asset	Net Income (Loss)
								Qty	Amount						
Unlisted	One-Blue, LLC	2011.07	Management Participation	1,766	0	16.7	1,766	-	-	-	0	16.7	1,766	25,051	563
Unlisted	Sentiance NV	2012.12	Simple Investment	3,422	7	7.2	3,422	-	-	-	7	7.2	3,422	2,407	-4,899
Unlisted	Mantis Vision Ltd.	2014.01	Simple Investment	1,594	355	2.1	0	-	-	-	355	2.1	0	14,234	14
Unlisted	Leman Micro Devices SA	2014.08	Simple Investment	1,019	17	3.4	0	-	-	-	17	3.4	0	1,868	-3,111
Unlisted	Sensifree LTD	2016.01	Simple Investment	2,111	666	9.5	0	-	-	-	666	9.5	0	473	-1,552
Unlisted	Unispectral Ltd.	2016.02	Simple Investment	1,112	2,308	7.9	803	-	-	-	2,308	7.9	803	2,360	3,597
Unlisted	Quobyte, Inc.	2016.04	Simple Investment	2,865	729	11.8	0	-	-	-	729	11.8	0	4,330	955
Unlisted	Afero, Inc.	2016.05	Simple Investment	5,685	723	5.5	5,685	-	-	-	723	5.5	5,685	25,364	-23,197
Unlisted	Graphcore Limited	2016.06	Simple Investment	3,494	12,000	1.4	3,069	-	-	-	12,000	1.4	3,069	121,249	-170,966
Unlisted	Fasetto, Inc.	2019.01	Simple Investment	6,701	475	5.1	0	-	-	-	475	5.1	0	5,160	-8,899

※ Based on separate financial statements

※ Ownership percentage is calculated based on the number of common shares issued

※ The Company measures financial instruments (equity stakes) in fair value in accordance with K-IFRS.

The Company annually assesses if investment in subsidiaries or affiliates possess any indication of impairment and estimates the recoverable amount of assets to be impaired.

※ Due to difficulties in obtaining the most recent financial data, current financial status of Sung Won Corp. is as of December 31, 2016,

Daewoo Songdo Development is as of December 31, 2017,

Mantis Vision is as of December 31, 2021, Leman Micro Devices SA, Sensifree is as of December 31, 2022 and One-Blue is as of March 31, 2023.

#### 4. R&D results (detailed)

DX Division	
Research project	Details
<b>Visual Display</b>	
Neo QLED 8K ~Mar 2024	<ul style="list-style-type: none"> <li>□ Ultra high-resolution, slim 8K TV based on Mini LED technology (65 · 75 · 85")               <ul style="list-style-type: none"> <li>- QN900 (65 · 75 · 85") / QN800 (65 · 75 · 85") / QN700 (55 · 65 · 75 ")                   <ul style="list-style-type: none"> <li>· QLED 8K resolution offers real-life viewing experiences with enhanced contrast of sophisticated Mini LED</li> </ul> </li> <li>- Offers immersive and realistic viewing experience with Neural Quantum Processor 8K</li> <li>- Offers spatial sound that envelops the space with OTS (object tracking sound)</li> </ul> </li> </ul>
Neo QLED 4K ~Mar 2024	<ul style="list-style-type: none"> <li>□ Mini LED-based products come in 3 series and up to 7 sizes (43 · 50 · 55 · 65 · 75 · 85 · 98")</li> <li>□ Slim design by adopting Mini LED, premium look with bezel-less/metal design               <ul style="list-style-type: none"> <li>- New LED with Quantum Nano-Layer Multi-Cell structure, enabling slim design, high luminance efficiency, luminance profile control</li> <li>- Adjusts picture quality using AI functions based on user's preferences of genre-specific picture quality</li> <li>- Provides quick access and personalized recommendations with New Home, which offers convenient serviceability</li> </ul> </li> </ul>
OLED TV ~Mar 2024	<ul style="list-style-type: none"> <li>□ Quantum-Dot-based self-emitting Display Flat 4K TV (55 · 65 · 77")               <ul style="list-style-type: none"> <li>- S95 (55 · 65 · 77"): OLED TV that provides the true value of TV, featuring QD-OLED display with 144Hz VRR; OLED Glare Free-True Reality quality; Infinity One Design (an ultra slim flat form factor equipped with top speaker); Object Tracking Sound; and ATMOS</li> <li>- S90 (55 · 65 · 77"): Provides picture quality of OLED Display featuring 144Hz VRR and immersive sound with Laser Slim Design featuring OTS Lite and ATMOS, strengthening Samsung OLED lineups beyond Neo QLED to enhance positioning in the premium TV market</li> </ul> </li> <li>□ White OLED-based self-emitting Display Flat 4K TV (42 · 48 · 55 · 65 · 77 · 83")               <ul style="list-style-type: none"> <li>- S90 (42 · 48 · 55 · 65 · 77 · 83"): same features as above</li> <li>- S85 (55 · 65 · 77 · 83"): Features white OLED display—which has been prepared as a new lineup for OLED sales expansion and profit/loss improvement—and offers premium spatial sound with OTS Lite/ ATMOS and a contour design with sleek curves</li> </ul> </li> </ul>
QLED TV ~Mar 2024	<ul style="list-style-type: none"> <li>□ Flat QLED 4K TV (32 · 43 · 50 · 55 · 60 · 65 · 70 · 75 · 82 · 85 · 98")</li> <li>□ Specs and features               <ul style="list-style-type: none"> <li>- Flagship QLED maximizes viewing experience with unrivaled picture quality within 4K (AI/brightness/viewing angle) and sound quality (OTS)</li> <li>- Maximizes immersive experience with ideal brightness contrast, free viewing angle, life-like color, and optimal brightness</li> <li>- Optimizes viewing experience by identifying user context based on voice recognition and AI technologies</li> <li>- Convenient calibration of picture quality with the touch of a button from a mobile device without expensive, professional equipment</li> <li>- Upgraded gaming experience for casual gamers through Game Bar</li> </ul> </li> </ul>
UHD TV ~Mar 2024	<ul style="list-style-type: none"> <li>□ Flat UHD TV (43 · 50 · 55 · 58 · 60 · 65 · 70 · 75 · 82 · 85 · 98")</li> <li>□ Specs and features               <ul style="list-style-type: none"> <li>- UHD Smart TV with slim, bezel-less design provides colors close to real-life</li> <li>- UHD picture quality expresses picture quality of original content through Dynamic Crystal Color and Dual LED</li> <li>- Provides a multi-media screen experience, rich content, and complete smart experience via smart home experience</li> <li>- Enhances smart experiences with the addition of Game Hub, IoT Hub, Chat Together, Voice Ready, Daily+, SmartThings Mobile Plugin</li> </ul> </li> </ul>



**DX Division**

Research project	Details
Lifestyle TV ~Apr 2024	<ul style="list-style-type: none"> <li>□ The SERO (43")                             <ul style="list-style-type: none"> <li>- Simple, modern vertical screen that rotates 360 degrees with flat-type speaker</li> <li>- Easily installed in any living space, mobile floor stand included</li> <li>- Significantly improved VoC compared to existing products with anti-glare/anti-reflective screen even for rotated form factor</li> </ul> </li> <li>□ The Frame (32 · 43 · 50 · 55 · 65 · 75 · 85")                             <ul style="list-style-type: none"> <li>- Design resembles a real picture frame; completes a picture frame experience</li> <li>- Exhibit various famous paintings and pictures; adopted lifestyle design which blends in with the interior</li> <li>- Additional introduction of 85" to meet the needs for ultra-large Lifestyle products</li> <li>- Completes the Real Frame experience with the anti-glare/anti-reflective screen that shows a paper-like image</li> </ul> </li> <li>□ The Serif (43 · 50 · 55 · 65")                             <ul style="list-style-type: none"> <li>- I-shaped serif font design; distinct from other products; works as beautiful interior design object</li> <li>- Additional introduction of 65" to expand the position of large screen products</li> <li>- Design that resembles a piece of furniture with the anti-glare/anti-reflective screen that shows a matte image</li> <li>- Offers a dark color option other than white (Ivy Green)</li> </ul> </li> <li>□ The Terrace (55 · 65 · 75")                             <ul style="list-style-type: none"> <li>- Differentiated product tailored to a lifestyle of relaxing and enjoying entertainment outdoors</li> </ul> </li> <li>□ The Premiere (100–130")                             <ul style="list-style-type: none"> <li>- Ultra-short-throw laser projector with high-resolution, providing a top-notch Smart UX/OTT experience</li> <li>- Complements any environment with blended design, can be placed directly in front of a wall and has an easily adjustable screen size.</li> <li>- Complete experience of our TV models including the differentiated picture quality and sound</li> </ul> </li> <li>□ The Freestyle (30–100")/ Freestyle Rev (30–100")                             <ul style="list-style-type: none"> <li>- Movable Smart Screen that enables users to enjoy content anytime, anywhere</li> <li>- Easy to set up in various locations and provides an optimal viewing experience regardless of angle/distance (Auto Focus/Auto Keystone)</li> </ul>                     Added usability via the basic cradle, enabling easy placement in various locations; and the socket adapter expands usability.                 </li> </ul>
Micro-LED TV ~Dec 2023	<ul style="list-style-type: none"> <li>□ Micro-LED Screen (76 · 89 · 101 · 114", TFT based)                             <ul style="list-style-type: none"> <li>- Next-generation flagship model that satisfies premium customer and distribution needs</li> <li>- Released completed version of TFT glass-based 12.7" module (pitch 0.51) microLED Screen</li> <li>- MicroLED Processor: creates vivid 3D picture quality based on AI scaling + HDR enhancing features</li> </ul> </li> </ul>
Sound bar ~Mar 2022	<ul style="list-style-type: none"> <li>□ Sound bar Q990B                             <ul style="list-style-type: none"> <li>- Industry's first wireless ATMOS transmission from TV to soundbar</li> <li>- Provides the optimal Cinema True ATMOS just like in the cinema, utilizing all channels of TV and soundbar</li> <li>- Equipped with soundbar room-correction technology</li> </ul> </li> </ul>

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Research project	Details
Monitor ~Sep 2023	<ul style="list-style-type: none"> <li><input type="checkbox"/> Smart monitor M80B (32")                             <ul style="list-style-type: none"> <li>- Ultra-slim, flat back, lifestyle design that adopts Warm White color</li> <li>- Includes magnetic-mount webcam</li> <li>- Strengthened smart experiences (watching VOD/connecting mobile devices/PC-less function/IoT/communication/game)</li> </ul> </li> <li><input type="checkbox"/> Gaming monitor G85NB (32")                             <ul style="list-style-type: none"> <li>- World's first UHD 240Hz 1ms (GTG) gaming monitor with premium gaming performance features (1000R Curved)</li> <li>- Odyssey Neo that offers a new level of picture quality experience (Mini LED, Quantum HDR2000)</li> </ul> </li> <li><input type="checkbox"/> World's first 1000R large game screen G97NB (55")                             <ul style="list-style-type: none"> <li>- Offers top-notch immersive experience with a large screen-size without viewing-angle limitations—even near-field viewing angles—via 1000R, 16:9, 55" Big Curved Screen</li> <li>- Provides a new immersive experience, almost like sitting in the cockpit of a space shuttle, by allowing users to rotate the screen vertically and in any direction</li> <li>- Game-exclusive panel that offers a 4K 165Hz refresh rate and 1ms response time</li> </ul> </li> <li><input type="checkbox"/> QD-OLED gaming monitor (G85SB 34")                             <ul style="list-style-type: none"> <li>- Exquisite expression of various colors with the combination of True RGB self-luminous display and quantum dot technology</li> <li>- Can play games with an extremely fast response time of 0.1ms and clear screen with 175Hz refresh rate</li> <li>- Implemented an all-in-one game streaming discovery platform, including cloud gaming and consoles, with the adoption of the Samsung Gaming Hub</li> </ul> </li> <li><input type="checkbox"/> 5K ultra-high resolution monitor (S90PC 27")                             <ul style="list-style-type: none"> <li>- 5K (5120x2880) resolution that expresses more information, with at least 50% more pixels compared to a 4K monitor</li> <li>- Matte Display reduces glare without a monitor hood and eliminates distortion, thus protecting your eyesight</li> <li>- Equipped with thunderbolt 4 and miniDP, compatible with both MAC/Windows</li> <li>- "Smart Screen" can be customized to satisfy your work/daily life/space needs</li> </ul> </li> <li><input type="checkbox"/> DUHD Flagship Gaming Monitor (G95NC 57")                             <ul style="list-style-type: none"> <li>- Allows users to experience maximum immersion with the new super large form factor (57") and ultra-high definition Dual UHD (7680X2160)</li> <li>- Can play games with a clear screen with 240Hz refresh rate and extremely fast 1 ms response time</li> </ul> </li> </ul>
Signage ~Jun 2023	<ul style="list-style-type: none"> <li><input type="checkbox"/> LCD-based B2B Smart Signage (LFD, Video Wall, Outdoor, etc.) (13 · 24 · 32 · 43 · 49 · 50 · 55 · 65 · 75 · 85 · 98")</li> <li><input type="checkbox"/> Indoor/outdoor signage using LED</li> <li><input type="checkbox"/> All-in-one Kiosk (24"), all additional equipment embedded                             <ul style="list-style-type: none"> <li>- Payment platform for developing Tizen payment module and ordering app, antibacterial finishing</li> </ul> </li> </ul>
Refrigerators ~Apr 2024	<ul style="list-style-type: none"> <li><input type="checkbox"/> 177cm one-door built-in fridge enters the European market                             <ul style="list-style-type: none"> <li>- Expanded lineup of built-in packages</li> <li>- Highest energy rating based on new standards</li> <li>- Secured superior capacity of the indirect cooling system</li> <li>- Differentiated features of fresh storage of food (high-humidity refrigeration) and temperature flexibility (freezer→refrigerator)</li> </ul> </li> <li><input type="checkbox"/> Address replacement demand and new demand for 48" refrigerators in the North American market                             <ul style="list-style-type: none"> <li>- Large capacity of 27.4cf for a built-in refrigerator</li> <li>- Differentiated Ice &amp; Water Solution (Auto Fill Water Pitcher, Dual Auto Ice Maker)</li> <li>- Soft-closing doors give the product an high-quality, luxurious ambience</li> </ul> </li> <li><input type="checkbox"/> Introduced a super-gap energy model in Korea (achieved first-class rating for its ultra-energy-efficiency, 22% achieved the first-class)                             <ul style="list-style-type: none"> <li>- Applies one of the world's most efficient compressor (W1, EER 9.3)</li> <li>- Reduced the SET heat load (with increased VIP Coverage)</li> <li>- Enhanced heat dissipation in machine room (additional side cooling on the comp side)</li> </ul> </li> <li><input type="checkbox"/> Global Wide BMF Refrigerator                             <ul style="list-style-type: none"> <li>- Offers high-efficiency energy rating, incorporates AI Energy mode, and saves energy cost</li> <li>- Expands usable interior space with SpaceMax, offering convenient storage</li> <li>- Offers smart services (e.g. automatic lighting adjustments by time of day) based on SmartThings</li> </ul> </li> <li><input type="checkbox"/> Custom Refrigerator for home specs in China home (W83cm)</li> </ul>

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Research project	Details
	<ul style="list-style-type: none"> <li>- Enables seamless installation to fit perfectly in the kitchen with zero gap on both left/right sides to give a built-in look</li> <li>- Application of AI energy mode to reduce actual energy usage (China Energy Label Grade 1)</li> <li>- Provides specialize storage for food materials at optimal temperature and humidity with dry/wet boxes</li> <li>- Applies Wide Open, an automatic wide door opening feature</li> <li><input type="checkbox"/> Refrigerator applying Peltier               <ul style="list-style-type: none"> <li>- Achieves highest efficiency and maximum energy grade by applying Peltier and utilizing waste heat</li> <li>- Combines advantages of two cooling methods (compressor + Peltier) to create value                   <ul style="list-style-type: none"> <li>· Achieves energy savings of 30% for Energy Grade 1, compared to the previous 22% savings for the same grade)</li> <li>· Offers additional useable interior space with more compact Peltier cooling system (875L → 900L)</li> </ul> </li> </ul> </li> <li><input type="checkbox"/> Built-In BMF refrigerator for European market               <ul style="list-style-type: none"> <li>- Achieves highest-efficiency energy rating for large capacity (380L ↑) Built-In BMF in the European market</li> <li>- Applies AI Energy mode, reducing energy consumption by 10% or more compared to products of the same class</li> <li>- Offers full indirect cooling system and switch function from freezer mode to refrigerator mode</li> </ul> </li> </ul>
Washer ~Feb 2024	<ul style="list-style-type: none"> <li><input type="checkbox"/> Grande AI 24kg washer               <ul style="list-style-type: none"> <li>- 24kg, Flat Design (glass type)</li> <li>- Features pet-care cycle (removes stains, smell, and allergens)</li> <li>- Applied auto door opening (door opens automatically after the washing cycle ends)</li> </ul> </li> <li><input type="checkbox"/> BESPOKE Grande AI OneBody Top-Fit               <ul style="list-style-type: none"> <li>- BESPOKE Grande AI all-in-one washer for Korean market</li> <li>- One-body design with 21 kg washer and 17 kg dryer all-in-one combo</li> <li>- Simple flat design</li> </ul> </li> <li><input type="checkbox"/> BESPOKE AI Washer-Dryer Combo               <ul style="list-style-type: none"> <li>- ONE Solution: Convenient washing and drying without transferring laundry</li> <li>- AI Home: Easy operation with touch screen and voice-recognition</li> <li>- AI customized course: Operation of optimized course based on laundry type</li> </ul> </li> </ul>
Air conditioner ~Apr 2024	<ul style="list-style-type: none"> <li><input type="checkbox"/> Increased revenue in the European market with an enhanced lineup that adopts the new the EHS platform               <ul style="list-style-type: none"> <li>- Low-frequency noise regulation: met limits for noise regulation of each European country, centering on Germany</li> <li>- Reinforced low-temperature performance: full heating performance at -25°C</li> <li>- High-temperature discharged water: discharged water of up to 70°C in a single heat pump cycle</li> <li>- Differentiated design: deep dark color 1 fan outdoor AC unit that harmoniously blends in with the living environment</li> </ul> </li> <li><input type="checkbox"/> BESPOKE wind-free air conditioner WindowFit               <ul style="list-style-type: none"> <li>- Wind-free mode cools air without directly blowing wind into the room</li> <li>- Low-noise mode, with a 32dB level, reduces vibration and noise for better sleep</li> <li>- Selection of high efficient energy saving modes tailored to different situations</li> <li>- Enhanced cooling capabilities and larger fans enable stronger and more consistent cooling for a wider area</li> <li>- Safe and simple installation kit allows for a seamless installation</li> </ul> </li> <li><input type="checkbox"/> Infinite Line 1Way BESPOKE wind-free built-in air conditioner               <ul style="list-style-type: none"> <li>- Ambient indirect edge lighting that creates a natural ambiance in the space</li> <li>- Wind-free on wider area with high-efficiency energy saving mode</li> <li>- 8-stage care system including for management of air quality and the inside of the air conditioner</li> <li>- AI energy mode for energy reduction tailored to different situations</li> </ul> </li> <li><input type="checkbox"/> New platform for the new Eco Heating System refrigerant (R290) for the European market               <ul style="list-style-type: none"> <li>- Introduced a new refrigerant (R290) solution to comply with 2027 regulations</li> <li>- High-temperature discharged water (max 75°C) for boiler market's alternatives</li> <li>- Achieved low noise (minimum 35dBA)</li> </ul> </li> <li><input type="checkbox"/> Indoor EHS hydro units (integrated tank and wall-mounted) for European market               <ul style="list-style-type: none"> <li>- Integrated energy management solution enhances customer experience and convenience (with energy saving based on CX-MDE)</li> </ul> </li> </ul>

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Research project	Details
	<ul style="list-style-type: none"> <li>- Reduces annual power consumption by 15% compared to competitors thanks to AI Energy and industry's most efficient performance in water heating</li> <li>- Slim Fit design to capture growing demand for multi-family housing (e.g. apartment) in European market</li> </ul>
Vacuums ~Mar 2024	<ul style="list-style-type: none"> <li>□ Bespoke Jet AI Vacuum (up to 280W suction)               <ul style="list-style-type: none"> <li>- Continued to enhance suction power and the original POD (Clean Station); increased market share</li> <li>- Enabled world's strongest suction power of up to 280W, which ensures powerful and hygienic cleaning</li> <li>- Auto setting of the optimal cleaning mode and provides maintenance guidance based on self-diagnosis</li> </ul> </li> <li>□ Jet Stick Vacuum 4.0 High-temperature cleaning brush               <ul style="list-style-type: none"> <li>- Damp cloth brush that directly sprays high-temperature water onto stains</li> <li>- Effectively removes stains by directly spraying high-temperature water (approximately 50°C or above) onto the floor</li> <li>- Quick preheating (around 20 seconds) and at least 30 minutes of use with one battery</li> <li>- Convenient cleaning with light wet mop of 1.51kg without attaching additional battery</li> </ul> </li> <li>□ Bespoke Jet Bot Combo—wet &amp; dry robot vacuum for Korean market               <ul style="list-style-type: none"> <li>- Able to separate wet and dry functions/AI-floor recognition/AI-object recognition</li> <li>- Rotational wet mop featuring automatic removal, with features preventing carpet contamination</li> <li>- Self-cleaning station; automatic mop cleaning/drying with steam sterilization</li> </ul> </li> </ul>
Range hoods Feb 2022	<ul style="list-style-type: none"> <li>□ Expanded lineup of premium hoods for home               <ul style="list-style-type: none"> <li>- Unparalleled performance compared to existing products                   <ul style="list-style-type: none"> <li>· Optimal air flow with a smart monitoring ventilation system equipped with Triple Air Sensor</li> <li>· Industry's strongest suction power of 780CMH; industry's lowest noise (29dB, Quiet Mark certification)</li> </ul> </li> <li>- Improved user convenience by pairing with an electric range and by adopting stainless steel filters with easy-to-clean coatings</li> <li>- Design that reflects various needs of consumers (Bespoke colors)</li> <li>- Entered the B2C market with easy-to-install products and adoption of installment process</li> </ul> </li> </ul>
Inverter dehumidifier May 2022	<ul style="list-style-type: none"> <li>□ Ultra-quiet inverter dehumidifier with first-class energy efficiency rating in Korea               <ul style="list-style-type: none"> <li>- Fast and strong large-capacity dehumidifier with a wide blade</li> <li>- Smart space care that keeps spaces from bathroom to dressing room pleasant</li> <li>- Dries a wide range of clothing—even delicate items—with swing blade</li> <li>- Simple design and compact size that fits anywhere</li> <li>- Low-noise mode that remains quiet throughout extended hours of use</li> </ul> </li> </ul>
Dishwasher Jun 2022	<ul style="list-style-type: none"> <li>□ In-house technology platform that has a competitive edge in the European/Korean markets               <ul style="list-style-type: none"> <li>- Fit for Tall Tubs for the European market</li> <li>- Secured competitiveness with top-notch energy/water/low-noise specifications</li> <li>- Strengthened premium experiences via differentiating features, such as an automatic dispenser (for Korean detergents) and a simple UX</li> <li>- Differentiated specifications of Z-wash, Smart, Flexible Basket</li> </ul> </li> </ul>
Gas oven Aug 2023	<ul style="list-style-type: none"> <li>□ Dacor 48" Pro-Range for North American market               <ul style="list-style-type: none"> <li>- Introduced 48" All Gas Pro range with transitional (Chef) look design on the exterior</li> <li>- Incorporated healthier cooking POD features, such as air fry and air sous-vide</li> <li>- Equipped with a 7" pop-up display</li> </ul> </li> <li>□ Dacor 48" Pro-Range (Dual Fuel) for North American market               <ul style="list-style-type: none"> <li>- Introduced 48" Dual Fuel Pro range, with transitional (Chef) look design on the exterior</li> <li>- Dual fuel, with electricity for the oven and gas for the cooktop</li> <li>- Applied 6 burners + griddle cooktop specifications</li> <li>- Combination of small oven 12" (new platform) + big oven 36" (previous platform)</li> <li>- Provides Steam Assist function</li> </ul> </li> </ul>
<b>Mobile eXperience</b>	

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Research project	Details
Galaxy foldable ~Aug 2023	<ul style="list-style-type: none"> <li>□ Galaxy Z Fold 4 (August 2022)                             <ul style="list-style-type: none"> <li>- Screen: Main display 7.6", cover display 6.2"</li> <li>- Size (W x H x D): (folded) 67.1mm x 155.1mm x 14.2–15.8mm (unfolded) 130.1mm x 155.1mm x 6.3mm</li> <li>- Platform (H/W, S/W): Snapdragon 8+ Gen 1, Android 12.0, One UI 4.1.1</li> <li>- Improved camera experience via Nightography picture/video, high-resolution (50M/8K), Space Zoom (30X) lens</li> <li>- Easier and faster multi-tasking with the new Taskbar feature</li> <li>- Easy-to-use Multi window thanks to various entry points</li> <li>- AI-based recommendation of related features after recognition of text from an image</li> </ul> </li> </ul>
	<ul style="list-style-type: none"> <li>□ Galaxy Z Flip 4 (August 2022)                             <ul style="list-style-type: none"> <li>- Screen: Main display 6.7", cover display 1.9"</li> <li>- Size (W x H x D): (folded) 71.9mm x 84.9mm x 15.9–17.1mm (unfolded) 71.9mm x 165.2mm x 6.9mm</li> <li>- Platform (H/W, S/W): Snapdragon 8+ Gen 1, Android 12.0, One UI 4.1.1</li> <li>- Supports 25W charging and offers 3700mAh battery</li> <li>- Supports FlexCam, optimized for taking pictures/videos from various angles</li> <li>- Easy and quick switch to and manipulation of applications in Flex mode</li> <li>- Expanded the Cover screen function (simple reply, Samsung Wallet platform, increased Quick settings, etc.)</li> </ul> </li> </ul>
	<ul style="list-style-type: none"> <li>□ Galaxy Z Fold5 (August 2023)                             <ul style="list-style-type: none"> <li>- Screen: Main display 6.7", cover display 6.2"</li> <li>- Size (W x H x D): (folded) 67.1mm x 154.9mm x 13.4mm (unfolded) 129.9mm x 154.9mm x 6.1mm</li> <li>- Platform (H/W, S/W): SM8550, Snapdragon 8 Gen 2, Android 13.0, One UI 5.1</li> <li>- Slim, flat-folding design with the application of the Dumbbell Flex Hinge (waterdrop design)</li> <li>- Improved portability with an enhanced grip by reducing weight and thickness</li> <li>- Enhanced user experience by optimization for a large screen</li> <li>- Two-handed mode: Touch and hold the app/content with one hand and perform the action you like to carry out with the other                                     <ul style="list-style-type: none"> <li>· Taskbar optimization: Shows more recently used apps (2→4 apps); automatically extends the navigation bar</li> <li>· Enhanced Multi window switch function: Able to switch popup windows into the multi-window easily on the home screen</li> <li>· Gaming optimization: Set the preferred resolution for most-used games in advance</li> </ul> </li> <li>- Enhanced durability: Strengthened shock absorption layers within display and changed structure of the hinge set</li> <li>- Slim and lightweight S-Pen and Case: Reduced the thickness and weight of S-Pen and its case by changing their shape</li> </ul> </li> </ul>
	<ul style="list-style-type: none"> <li>□ Galaxy Z Flip 5 (August 2023)                             <ul style="list-style-type: none"> <li>- Screen: Main display 6.7", cover display 3.4"</li> <li>- Size (W x H x D): (folded) 71.9mm x 85.1mm x 15.1mm (unfolded) 71.9mm x 165.1mm x 6.9mm</li> <li>- Platform (H/W, S/W): Snapdragon 8 Gen 2, Android 13.0, One UI 5.1</li> <li>- Enlarged cover screen (1.9" → 3.4") with an optimized design</li> <li>- Enhanced grip by reducing thickness and applying a slim, flat-folding design with a new hinge</li> <li>- Provided key functions for differentiated user experiences and strengthened usability with the large cover screen                                     <ul style="list-style-type: none"> <li>· Provided Fast Scroll function for 13 key widgets (music, alarm, etc.) and main apps (Samsung Wallet, message reply)</li> <li>· Add more buttons (6 → 9) on the Quick Settings panel (Mobile Data, Screen Recording, Modes 3, etc.)</li> </ul> </li> <li>- Provided various photo effects and functions using the large cover screen</li> <li>- Enhanced durability: Strengthened shock absorption layers within display and changed structure of the hinge set</li> </ul> </li> </ul>

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Research project	Details
Galaxy S ~Jan 2024	<ul style="list-style-type: none"> <li>□ Galaxy S22 · S22+ · S22 Ultra (February 2022)                             <ul style="list-style-type: none"> <li>- Design: Enhanced Galaxy Design attractiveness with geometric bold design and integrity on quality</li> <li>- Screen: S22 6.1", S22+ 6.6", S22 Ultra 6.8"</li> <li>- Size (W x H x D): S22 70.6mm x 146.0mm x 7.6 mm, S22+ 75.8mm x 157.4mm x 7.6 mm, S22 Ultra 77.9mm x 163.3mm x 8.9 mm</li> <li>- Platform (H/W, S/W): Snapdragon 8 Gen 1   Exynos2200, Android 12.0, One UI 4.1</li> <li>- Strengthened camera video filming and low-light function performance                                     <ul style="list-style-type: none"> <li>· Video: Improved HDR and OIS+AI Stabilizer performance to support rich colors and minimize shaking/jittering</li> <li>· Enhanced low-light performance: Applies Big Pixel sensor and On-device AI algorithm</li> </ul> </li> <li>- Integrated Ultra/Note by equipping with S Pen* Optimized latency: 5.6ms (S21 Ultra) → 2.8ms (S22 Ultra)</li> <li>- Improved outdoor visibility of display* Peak brightness: 1,500nit (S21 Ultra) → 1,750nit (S22 Ultra)</li> <li>- Battery that can be used all-day and 45W ultra-fast charging speed (S22 Ultra/S22+)</li> <li>- Enhanced durability: Adopts Amor AL and Victus+ Glass with a 10% improvement in durability</li> <li>- Improved completion of Galaxy foundation experience                                     <ul style="list-style-type: none"> <li>· One UI 4.1: sophisticated, sensible interaction experience and personal experience of users</li> </ul> </li> <li>- Galaxy Eco: improved end-to-end completion and enhanced convenient experience</li> </ul> </li>   <li>□ Galaxy S23 · S23+ · S23 Ultra (February 2023)                             <ul style="list-style-type: none"> <li>- Design: Ultimate Premium Experience designed for today and beyond                                     <ul style="list-style-type: none"> <li>* Unrivaled Camera, Ultimate Gaming, Eco-conscious Design</li> </ul> </li> <li>- Screen: S23 6.1", S23+ 6.6", S23 Ultra 6.8"</li> <li>- Size (W x H x D): S23 70.9 x 146.3 x 7.6 mm, S23+ 76.2 x 157.8 x 7.6 mm, 195g                                      S23 Ultra 78.1 x 163.4 x 8.9 mm, 233g</li> <li>- Platform (H/W, S/W): Snapdragon 8 Gen 2, Android 13, One UI 5.1</li> <li>- Enhanced low-light performance based on AI and improved video experience                                     <ul style="list-style-type: none"> <li>· Capable of expressing precise color and tone in portrait mode even in the dark with improved color solutions leveraging AI-based scene optimization technology</li> <li>· Less camera shake for videos thanks to increased Optical Image Stabilization (OIS) correction angle (S22 Ultra 1.5° → S23 Ultra 3°)</li> </ul> </li> <li>- Offers crisp and clear, high-resolution details and high-resolution camera experience                                     <ul style="list-style-type: none"> <li>· S23 Ultra adopted ultra-high-resolution 200MP camera</li> <li>· Provides optimal picture quality with auto adjustment of pixel size for sections with different lighting conditions</li> </ul> </li> <li>- Improved basic performance, such as heat dissipation and durability against drops                                     <ul style="list-style-type: none"> <li>· Offers seamless gaming experience by enhancing heat dissipation performance, including improved power efficiency and revamped heat dissipation structure</li> <li>· Greater drop protection with adoption of Victus 2 Glass with durability enhanced by 21%</li> </ul> </li> <li>- S23 Ultra offers top-notch productivity experience with S-pen                                     <ul style="list-style-type: none"> <li>· AI-based recommendation of related features after text recognition from an image/video</li> </ul> </li> <li>- Improved connected experience with multiple devices (phone-PC)                                     <ul style="list-style-type: none"> <li>· Capable of mirroring the smartphone screen on a PC and continuing browsing on the same webpage</li> </ul> </li> <li>- Adds to our sustainability story with the adoption of eco-friendly materials overall from dyes to the actual materials                                     <ul style="list-style-type: none"> <li>· Packaging box is 100% recycled paper</li> <li>· Adopts recycled PBT resin to bond metal (10%), recycled metal materials adopted in side keys (28%), etc.</li> <li>· Incorporated recycled glass into the front and back glass panels (22%), natural dyes when processing metals, recycled PET films, etc.</li> </ul> </li> <li>- Strengthened privacy and security                                     <ul style="list-style-type: none"> <li>· Visualization of security status; notification of sensitive information when sharing images; and limiting access to private information when repairing products</li> </ul> </li> </ul> </li> </ul>

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Research project	Details
	<ul style="list-style-type: none"> <li>□ Galaxy S24 · S24+ · S24 Ultra ( Jan 2024)               <ul style="list-style-type: none"> <li>- Introducing innovative Galaxy Intelligence experience by adopting Galaxy AI features                   <ul style="list-style-type: none"> <li>· Offers AI features including circle to search, real-time interpretation, photo/note/chat assist</li> </ul> </li> <li>- Screen: S24 6.2", S24+ 6.7", S24 Ultra 6.8"</li> <li>- Size (W x H x D): S24 70.6 x 147.0 x 7.6 mm 167g, S24+ 75.9 x 158.5 x 7.7 mm, 196g S24 Ultra 79.0 x 162.3 x 8.6 mm, 232g</li> <li>- Platform (H/W, S/W): Snapdragon 8 Gen 3/Exynos 2400, Android 14, One UI 6.1</li> <li>- Strengthen immersive display experience through application of Slim even BM</li> <li>- Elevates a sense of design cohesion with one-mass design</li> <li>- Enhances camera shooting and gallery viewing/editing with the improved AI ProVisual Engine · Enables clear and high quality pictures with space zoom and nightography features for camera                   <ul style="list-style-type: none"> <li>· Offers Instant Slow-mo and Edit Suggestion</li> </ul> </li> <li>- Improves outdoor visibility of the display * Peak brightness: 1,750nit → 2,600nit</li> <li>- S24 Ultra enhances durability and maximizes premium quality with a titanium metal frame</li> <li>- S24 Ultra features a high-resolution telephoto camera * 10MP (S23 Ultra) → 50MP (S24 Ultra)</li> </ul> </li> </ul>
Galaxy Tab ~Aug 2023	<ul style="list-style-type: none"> <li>□ Galaxy Tab S8 · S8+ · S8 Ultra (February 2022)               <ul style="list-style-type: none"> <li>- Screen: Tab S8 11" WQXGA+ (2560 x 1600) Tab S8+ 12.4" WQXGA+ (2800 x 1752) Tab S8 Ultra 14.6" WQXGA+ (2960 x 1848)</li> <li>- Size (W x H x D) &amp; weight: Tab S8 165.3mm x 253.8mm x 6.3mm, 503g Tab S8+ 185.0mm x 285.0mm x 5.7mm, 567g Tab S8 Ultra 208.6mm x 326.4mm x 5.5mm, 726g</li> <li>- Platform (H/W, S/W):Snapdragon 8 Gen 1, Android 12, One UI 4.1</li> <li>- Memory: 8GB+128GB / 8GB+256GB / 12GB+256GB / 16G+512G, microSD up to 1TB</li> <li>- Enhanced video call experienced [Tab S8 Ultra] Provides dual front cameras (12M 80-degrees, 12M 120-degrees) and Auto Framing function [Tab S8+ / Tab S8] Provides 12M 120-degree front camera and Auto Framing function</li> <li>- Enhanced AP Sustain performance by improving heat sink design (gpu 70%, cpu 25%↑ compared to previous model), enhanced gaming performance</li> <li>- Improved S pen latency (5.6ms → 2.65ms) and optimized prediction algorithm Provides seamless and precise writing experience when writing &amp; drawing, just like a real pen, enhancements to lessen the parallax effect</li> <li>- Enhanced the audio experience of video calls by upgrading 3 MIC noise cancellation performance (3 types of noise cancellation mode)</li> <li>- Equipped with WiFi 6E function—a first for a tablet—and improved big data transmission time between devices</li> <li>- Reduced charging time of Phone Power Share by half compared to the previous model by adopting D2D 15W charging function</li> </ul> </li> </ul>



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Research project	Details
	<ul style="list-style-type: none"> <li>□ Galaxy Tab S9 · S9+ · S9 Ultra (August 2023)               <ul style="list-style-type: none"> <li>- Screen: Tab S9 11" WQXGA+ (2560 x 1600) Tab S9+ 12.4" WQXGA+ (2800 x 1752) Tab S9 Ultra 14.6" WQXGA+ (2960 x 1848)</li> <li>- Size (W x H x D) &amp; weight: Tab S9 165.8mm x 254.3mm x 5.9mm, 498g Tab S9+ 185.4mm x 285.4mm x 5.7mm, 581g Tab S9 Ultra 208.6mm x 326.4mm x 5.5mm, 732g</li> <li>- Platform (H/W, S/W): Snapdragon 8 Gen 2, Android 13, One UI 5.1</li> <li>- Provided large-screen experience adapted with rich color impression and various environment settings                   <ul style="list-style-type: none"> <li>· Adopted Dynamic AMOLED 2X technology for all models in Tab S9 series, offering clear and comfortable screen experience</li> <li>· Implemented Vision Booster technology that ensures a vibrant screen, even in direct sunlight</li> </ul> </li> <li>- Secured mobility and dependability so users can use the product anywhere without any concerns                   <ul style="list-style-type: none"> <li>· Achieved IP68 rating, the highest level of waterproof/dustproof accreditation</li> <li>· Armor Aluminum frame protects the product from impacts</li> <li>·</li> <li>· Enhanced usability eco-system by introducing an S-Pen that can be charged in either direction, and enhanced durability of accessories.</li> <li>· Strengthened compatibility by making the keyboard and other accessories compatible with Tab FE models</li> <li>· Introduced a new two-way heat dissipation structure using a vapor chamber, allowing users to use the product for a long time without discomfort</li> </ul> </li> <li>- Secured sufficient Android App Eco system in various areas                   <ul style="list-style-type: none"> <li>· Strengthened key android productivity apps, including apps for taking notes, managing documents, and browsing— e.g., Samsung note, Good note</li> <li>· Secured key apps to improve usability in drawing and photo/video editing: LumaFusion, Clip studio, etc.</li> </ul> </li> <li>- Utilized eco-friendly materials throughout the product, incorporating recycled components for the exterior and tempered glass                   <ul style="list-style-type: none"> <li>· Newly adopted recycled plastic on the S-Pen dock surface</li> <li>· Used new recycled materials for tempered glass of the display (10%, Gorilla Glass 5)</li> </ul> </li> <li>- Used 100% recycled paper and armor aluminum (20%) for package box and recycled plastic for interior materials</li> </ul> </li> </ul>
Galaxy A ~Mar 2024	<ul style="list-style-type: none"> <li>□ Galaxy A23 (March 2022)               <ul style="list-style-type: none"> <li>- Screen: 6.6" FHD+ (2408 x 1080) 90Hz</li> <li>- Size (W x H x D) &amp; weight: 76.9mm x 165.4mm x 8.4mm, 195g</li> <li>- Platform (H/W, S/W):SDM680, Android 12, One UI 4.1</li> <li>- 6.6" FHD+ display, supports 90Hz screen refresh rate (previous model: A22 6.4" HD+ 90Hz)</li> <li>- Vivid pictures in the dark without camera shake with the adoption of high-definition 50MP OIS camera</li> <li>- Adoption of high-capacity 5,000mAh battery and supports 25W ultra-fast charging</li> </ul> </li> </ul>
	<ul style="list-style-type: none"> <li>□ Galaxy A13 5G (January 2022)               <ul style="list-style-type: none"> <li>- Screen: 6.5" HD+ (1600 x 720) 90Hz</li> <li>- Size (W x H x D) &amp; weight: 76.5mm x 164.5mm x 8.8mm, 195g</li> <li>- 6.5" HD+ display, supports 90Hz screen refresh rate (previous model: A12 6.5" HD+ 60Hz)</li> <li>- Super-low priced 5G model for LTE user migration and expansion of the 5G market</li> <li>- Strengthened AP (P35 → D700) to address entry market</li> <li>- Higher definition of pictures compared to the previous model (A12 16MP) with the application of 50MP camera</li> </ul> </li> </ul>
	<ul style="list-style-type: none"> <li>□ Galaxy A13 LTE (March 2022)               <ul style="list-style-type: none"> <li>- Screen: 6.6" FHD+ (2408 x 1080) 60Hz</li> <li>- Size (W x H x D) &amp; weight: 76.4mm x 165.1mm x 8.8mm, 195g</li> <li>- Platform (H/W, S/W):Exynos850, Android 12, One UI Core 4.1</li> <li>- Provides better large screen experience compared to the previous model (A12 6.5" HD+) by adopting 6.6" FHD+ display</li> <li>- Higher definition of pictures compared to the previous model (A12 48MP) by adopting 50MP camera</li> <li>- Able to use up to two days on a single charge by applying 5,000mAh high-capacity battery and AI Power mode</li> </ul> </li> </ul>



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Research project	Details
	<ul style="list-style-type: none"> <li>□ Galaxy A73 5G (April 2022)                             <ul style="list-style-type: none"> <li>- Screen: 6.7" FHD+ Super AMOLED+ (1080 x 2400) 120Hz</li> <li>- Size (W x H x D) &amp; weight: 76.1mm x 163.7mm x 7.6mm, 181g</li> <li>- Platform (H/W, S/W): SDM778G, Android 12, One UI 4.1</li> <li>- Vivid pictures in the dark without camera shake with the support of 108MP high-resolution picture quality and OIS</li> <li>- Soft and clear screen experience with the adoption of high refresh rate of 120Hz and sAMOLED display</li> <li>- Adopts 5,000mAh high-capacity battery (2-day battery life) and supports 25W ultra-fast charging speed</li> <li>- Offers strong durability with the adoption of Gorilla Glass 5 and IP67 rating</li> <li>- Provides the latest flagship experience with the support of One UI 4.1</li> </ul> </li> </ul>
	<ul style="list-style-type: none"> <li>□ Galaxy A53 5G (April 2022)                             <ul style="list-style-type: none"> <li>- Screen: 6.5" FHD+ Super AMOLED (1080 x 2400) 120Hz</li> <li>- Size (W x H x D) &amp; weight: 74.8mm x 159.6mm x 8.1mm, 189g</li> <li>- Platform (H/W, S/W): Exynos1280, Android 12, One UI 4.1</li> <li>- 8.1t slim design and 5,000 mAh high-capacity battery (0.3t↓, 500 mAh↑ compared to previous model)</li> <li>- Soft and clear screen experience provided by the combination of high refresh rate of 120Hz and fast response speed of sAMOLED</li> <li>- Enhanced glass durability with the adoption of Gorilla Glass 5</li> <li>- Provides the latest flagship experience with the support of One UI 4.1</li> </ul> </li> </ul>
	<ul style="list-style-type: none"> <li>□ Galaxy A33 5G (April 2022)                             <ul style="list-style-type: none"> <li>- Screen: 6.4" FHD+ Super AMOLED (1080 x 2400) 90Hz</li> <li>- Size (W x H x D) &amp; weight: 74.0mm x 159.7mm x 8.1mm, 186g</li> <li>- Platform (H/W, S/W): Exynos1280, Android 12, One UI 4.1</li> <li>- Delivers enhanced screen experience with the support of 6.4" FHD+ display and 90Hz (previous model: A32-5G HD+ TFT 60Hz)</li> <li>- High-definition pictures without camera shake with the adoption of 48MP OIS camera</li> <li>- Enhanced durability with the adoption of Gorilla Glass 5 and support of IP67 rating for dust and water resistance</li> <li>- Adopts 5,000 mAh high-capacity battery (2-day battery) and supports 25W ultra-fast charging speed</li> </ul> </li> </ul>
	<ul style="list-style-type: none"> <li>□ Galaxy A23 5G (September 2022)                             <ul style="list-style-type: none"> <li>- Screen: 6.6" FHD+ TFT LCD (1080 x 2408) 120Hz</li> <li>- Size (W x H x D) &amp; weight: 76.9mm x 165.4mm x 8.4mm, 197g</li> <li>- Platform (H/W, S/W): SDM695, Android 12, One UI 4.1</li> <li>- Upgraded AP performance compared to previous model (A22-5G D700) with the application of SDM695</li> <li>- High-resolution pictures without camera shake with the adoption of 50MP OIS camera (OIS is not supported in the North America region)</li> <li>- Provides enhanced large-screen experience compared to previous model (A22-5G 6.6" HD+ 90Hz) by adopting 6.6" FHD+</li> <li>- Applies 5,000mAh large-capacity battery (2-day battery) and supports 25W ultra-fast charging</li> </ul> </li> </ul>
	<ul style="list-style-type: none"> <li>□ Galaxy A14 5G (January 2023)                             <ul style="list-style-type: none"> <li>- Screen: 6.6" FHD+ TFT LCD (2408 x 1080) 90Hz</li> <li>- Size (W x H x D) &amp; weight: 78.0 x 167.7 x 9.1mm, 201g</li> <li>- Platform (H/W, S/W): D700/Exynos1330, Android 13, One UI core 5.0</li> <li>- High-resolution pictures (5MP → 13MP) with adoption of higher spec front camera compared to previous model (A13- 5G)</li> <li>- Enhanced screen experience compared to previous model (A13-5G 6.5" HD+) with adoption of 6.6" FHD+ large-screen display</li> <li>- Applies 5,000mAh large-capacity battery</li> </ul> </li> </ul>

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Research project	Details
	<ul style="list-style-type: none"> <li>□ Galaxy A54 5G (March 2023)                             <ul style="list-style-type: none"> <li>- Screen: 6.4" FHD+ Super AMOLED (2340 x 1080) 19.5:9 120Hz</li> <li>- Size (W x H x D) &amp; weight: 76.7 x 158.2 x 8.2mm, 202 g</li> <li>- Platform (H/W, S/W): Exynos1380, Android 13, One UI 5.1</li> <li>- Improved visibility through enhanced performance of AP picture quality, fine-tuning by light condition, and peak brightness of 1,000nit</li> <li>- Maximized performance by offering optimal refresh rate of 120Hz and boosted battery efficiency</li> <li>- Provides rich haptics experience thanks to elaborate adjustment of linear motor vibration</li> <li>- Enhanced balanced design and premium CMF (adopts 6.4", 19.5:9)</li> <li>- Offers the latest flagship experience with One UI 5.1</li> </ul> </li> </ul>
	<ul style="list-style-type: none"> <li>□ Galaxy A34 5G (March 2023)                             <ul style="list-style-type: none"> <li>- Screen: 6.6" FHD+ Super AMOLED (2340 x 1080) 120Hz</li> <li>- Size (W x H x D) &amp; weight: 78.1 x 161.3 x 8.2mm, 199g</li> <li>- Platform (H/W, S/W): D1080, Android 13, One UI 5.1</li> <li>- Offers enhanced screen experience by featuring 6.6" FHD+, 1,000nit brightness, and 120Hz refresh rate</li> <li>- High-resolution pictures without camera shake with adoption of 48MP OIS camera</li> <li>- Equipped with a linear motor, which provides haptics experience of a flagship model</li> </ul> </li> </ul>
	<ul style="list-style-type: none"> <li>□ Galaxy A14 (March 2023)                             <ul style="list-style-type: none"> <li>- Screen: 6.6" FHD+ TFT LCD (2408 x 1080) 60Hz</li> <li>- Size (W x H x D) &amp; weight: 78.0 x 167.7 x 9.1mm, 201g</li> <li>- Platform (H/W, S/W): Exynos 850/G80, Android 13, One UI core 5.1</li> <li>- Offers enhanced selfie experience (8MP → 13MP) with adoption of higher spec front camera compared to previous model (A13)</li> <li>- Applies 5,000mAh large-capacity battery</li> </ul> </li> </ul>
	<ul style="list-style-type: none"> <li>□ Galaxy A24 (May 2023)                             <ul style="list-style-type: none"> <li>- Screen: 6.5" FHD+ sAMOLED U-Cut (1080 x 2340) 90Hz</li> <li>- Size (W x H x D) &amp; weight: 77.6mm x 162.1mm x 8.3mm, 195g</li> <li>- Platform (H/W, S/W): G99, Android 13, One UI core 5.1</li> <li>- Enhanced selfie experience (8MP → 13MP) with adoption of higher spec front camera compared to A23</li> <li>- Records videos without camera shake via the adoption of new VDIS in addition to the previous OIS feature</li> <li>- Offers improved outdoor visibility compared to the A23, with wider color gamut spectrum, providing a brighter and more convenient screen experience</li> </ul> </li> </ul>
	<ul style="list-style-type: none"> <li>□ Galaxy A05s (October 2023)                             <ul style="list-style-type: none"> <li>- Screen: 6.7" FHD+ TFT LCD U-cut (1080 x 2400) 90Hz</li> <li>- Size (W x H x D) &amp; weight: 77.8mm x 168.0mm x 8.8mm, 194g</li> <li>- Platform (H/W, S/W): SDM680, Android 13, One UI core 5.1</li> <li>- Drives market volume/share in entry-level LTE market</li> <li>- Higher spec than the previous A04S: Equipped with high-performance AP (Exynos850 8nm → SDM680 6nm) and high- spec front camera (5MP → 13MP)</li> <li>- Adoption of high-capacity global 5,000 mAh battery and supports 25W ultra-fast charging (15W → 25W)</li> </ul> </li> </ul>
	<ul style="list-style-type: none"> <li>□ Galaxy A05 (October 2023)                             <ul style="list-style-type: none"> <li>- Screen: 6.7" HD+ TFT LCD U-cut (720 x 1600) 60Hz</li> <li>- Size (W x H x D) &amp; weight: 78.2mm x 168.8mm x 8.8mm, 195g</li> <li>- Platform (H/W, S/W): G85, Android 13, One UI Core 5.1</li> <li>- Provides enhanced multimedia experiences with supports of large screen (6.7") and high-resolution camera (50MP)</li> <li>- Improves customers' product usability by incorporating high-performance AP (CPU 33% ↑, GPU 150% compared to the previous model)</li> <li>- Able to use long period on a 30-minute-charge with 25W fast charging</li> </ul> </li> </ul>

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Research project	Details
	<ul style="list-style-type: none"> <li>□ Galaxy A25 5G (January 2024)                             <ul style="list-style-type: none"> <li>- Screen: 6.5" FHD+ Super AMOLED (2340 x 1080) 19.5:9 120Hz</li> <li>- Size (W x H x D): 76.5 x 161.0 x 8.3 mm, 197g</li> <li>- Platform (H/W, S/W): Exynos 1280, Android 14, One UI 6.0</li> <li>- Supports 6.5" FHD+ and 120Hz refresh rates for an improved viewing experience</li> <li>- Enables high-resolution shake-free photos with 50MP OIS wide-angle camera</li> <li>- Adoption of high-capacity 5,000mAh battery</li> </ul> </li> </ul>
	<ul style="list-style-type: none"> <li>□ Galaxy A15 (January 2024)                             <ul style="list-style-type: none"> <li>- Screen: 6.5" FHD+ Super AMOLED (2340 x 1080) 19.5:9 90Hz</li> <li>- Size (W x H x D): 76.8 x 160.1 x 8.4 mm, 200g</li> <li>- Platform (H/W, S/W): [5G] D6100+ / [LTE] G99, Android 14, One UI 6.0</li> <li>- Enhances picture quality by upgrading display compared to the previous model (A14) (LCD → Super AMOLED)</li> <li>- Adoption of high-capacity 5,000mAh battery that supports 25W fast charging</li> <li>- Enhances security and privacy protection with Knox Vault</li> </ul> </li> </ul>
	<ul style="list-style-type: none"> <li>□ Galaxy A55 5G (March 2024)                             <ul style="list-style-type: none"> <li>- Screen: 6.6" FHD+ Super AMOLED (2340 x 1080) 19.5:9 120Hz</li> <li>- Size (W x H x D): 77.4 x 161.1 x 8.2 mm, 213g</li> <li>- Platform (H/W, S/W): Exynos 1480, Android 14.0, One UI 6.1</li> <li>- Provides stronger nightography and video recording experience with enhanced camera sensor and AP</li> <li>- Enhances design competitiveness by applying metal + glass and creating young &amp; energetic CMF design</li> <li>- Provides improved screen viewing experience with 6.6" FHD+ large screen display, compared to the previous A54-5g with 6.4"</li> </ul> </li> </ul>
	<ul style="list-style-type: none"> <li>□ Galaxy A35 5G (March 2024)                             <ul style="list-style-type: none"> <li>- Screen: 6.6" FHD+ Super AMOLED (2340 x 1080) 19.5:9 120Hz</li> <li>- Size (W x H x D): 78.0 x 161.7 x 8.2 mm, 209g</li> <li>- Platform (H/W, S/W): Exynos 1380, Android 14.0, One UI 6.1</li> <li>- Applies HID (hole-in-display) and back glass for unique and distinctive design</li> <li>- Enhances security with Knox Vault and guarantees quality by providing four OS updates and five security maintenance releases</li> </ul> </li> </ul>
Galaxy Book ~Jan 2024	<ul style="list-style-type: none"> <li>□ Galaxy Book2 Pro 360 (April 2022)                             <ul style="list-style-type: none"> <li>- Screen: 15.6" FHD Super AMOLED (16:9), up to 500nit (HDR), Color Volume 120%</li> <li style="padding-left: 40px;">13.3" FHD Super AMOLED (16:9), up to 500nit (HDR), Color Volume 120%</li> <li>- Size (W x H x D) &amp; weight: 15.6" 354.85 x 227.97 x 11.9mm, 1.41kg</li> <li style="padding-left: 40px;">13.3" 302.5 x 202 x 11.5 mm, 1.04kg</li> <li>- Platform, OS: Intel® Core™ Processor 12th Gen CPU, Windows 11</li> <li>- sAMOLED: Default 370nit/HDR 500nit, Color volume 120%</li> <li>- S Pen &amp; Touchscreen support</li> <li>- 1080p FHD Camera (87-degree wide angle, supports Auto Framing, which recognizes users and adjusts them to the center of the screen)</li> <li>- SSD: Gen4 SSD, Expendable SSD (M.2 2230)</li> <li>- Supports WiFi 6E</li> <li>- Battery: 15.6" 68Wh (21hrs), 13.3" 63Wh (21hrs)</li> <li>- Galaxy Apps: Quick Share, 2nd Screen, Multi-Control, etc.                                     <ul style="list-style-type: none"> <li>· QR Sign-in: logs into Galaxy Book with a QR scan linked to the account on your phone</li> </ul> </li> <li>- Security: supports Secured-Core PC with enhanced security for each stage for hardware, firmware, and software</li> </ul> </li> </ul>

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Research project	Details
	<ul style="list-style-type: none"> <li>□ Galaxy Book2 Pro (April 2022)                             <ul style="list-style-type: none"> <li>- Screen: 15.6" FHD AMOLED (16:9), up to 500nit (HDR), Color Volume 120%</li> <li>13.3" FHD AMOLED (16:9), up to 500nit (HDR), Color Volume 120%</li> <li>- Size (W x H x D) &amp; weight: 15.6" 355.4 x 225.8 x 11.7mm, 1.11kg</li> <li>13.3" 304.4 x 199.8 x 11.2mm, 0.87kg</li> <li>- Platform, OS: Intel® Core™ Processor 12th Gen CPU, Windows 11</li> <li>- AMOLED: Default 400nit/HDR 500nit, Color volume 120%</li> <li>- 1080p FHD Camera (87-degree wide angle, supports Auto Framing, which recognizes users and adjusts them to the center of the screen)</li> <li>- SSD: Gen4 SSD, Expendable SSD (15.6" Only, M.2 2280)</li> <li>- Supports WiFi 6E, 5G Sub6 (15.6" Only)</li> <li>- Battery: 15.6" 68Wh (21hrs), 13.3" 63Wh (21hrs)</li> <li>- Galaxy Apps: Quick Share, 2nd Screen, Multi-Control, etc.                                     <ul style="list-style-type: none"> <li>· QR Sign-in: logs into Galaxy Book with a QR scan linked to the account on your phone</li> </ul> </li> <li>- Security: supports Secured-Core PC with enhanced security for each stage for hardware, firmware, and software</li> </ul> </li> </ul>
	<ul style="list-style-type: none"> <li>□ Galaxy Book2 Go 5G (December 2022)                             <ul style="list-style-type: none"> <li>- Screen: 14" IPS (1920 x 1080)</li> <li>- Size (W x H x D): 323.9mm x 224.8mm x 15.5mm</li> <li>- Platform: Snapdragon 7C+ Gen 3, Window 11</li> <li>- Developed Mass WoA product adopting 7C+ Gen3 (CPU 63%↑, GPU 102%↑ compared to Snapdragon 7C Gen 2)</li> <li>- Improved picture quality of display (TN → IPS)</li> <li>- Supports WiFi 6E, 5G Sub6</li> <li>- Adopted 5G model for the mass market which supports ENDC/eSIM</li> <li>- Supports 45W charging</li> <li>- Completed eight tests from the MIL-STD-810H certification</li> <li>- Shock, high/low temperature, thermal shock, dust, vibration, low pressure, humidity</li> </ul> </li> </ul>
	<ul style="list-style-type: none"> <li>□ Galaxy Book2 Pro 360 (2023) (December 2022)                             <ul style="list-style-type: none"> <li>- Screen: 13.3" FHD AMOLED (16:9), Touch Screen, Color Volume (DCI-P3) 100%, S Pen</li> <li>- Size (W x H x D) &amp; weight: 13.3" 302.5 x 202.0 x 11.5mm, 1.04kg</li> <li>- Platform, OS: Snapdragon 8cx Gen 3, Windows 11 Home</li> <li>- AMOLED: 13.3" FHD Super AMOLED (16:9), Color Volume (DCI-P3) 100%, up to 370nit, S Pen</li> <li>- Speakers: Stereo 2 x 4W (Smart AMP), AKG, Dolby Atmos</li> <li>- SSD: eUFS on board, 256GB</li> <li>- WiFi 6E (802.11ax)</li> <li>- Battery: 63Wh (Video Play 35hrs↑)</li> <li>- Galaxy ecosystem: Smart Switch, Samsung Account, Samsung Apps, Keyboard &amp; Touch Pad Sharing between Galaxy devices</li> <li>- Security: fingerprint recognition, Secured Core PC (Level 3, H/W &amp; F/W Protection)</li> <li>- AI: Noise Reduction, Video Call with Neural Engine</li> </ul> </li> </ul>

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Research project	Details
	<ul style="list-style-type: none"> <li>□ Galaxy Book3 Ultra (February 2023)               <ul style="list-style-type: none"> <li>- Screen: 16.0" OLED 120Hz, 370nit/500nit, 16:10 (2880 x 1800, 3K)</li> <li>- Size (W x D x H): 355.4 x 250.5 x 16.5mm, 1.79kg,</li> <li>- Intel® Core™ Processor 13th Gen CPU, Win 11, LPDDR5, NVIDIA® GeForce RTX™ 4050/4070, 76W Battery, FHD MIPI Camera, A/C/D AI, B Glass, TA 100W</li> <li>- Adopts 13th Gen Intel® Core™ H-series mobile processor and next-generation Nvidia® GeForce RTX™ 40 Series graphics</li> <li>- 3K high-resolution display that adopts WQXGA+; color volume 120%</li> <li>- Touch pad 39% larger in size (compared to Galaxy Book 2 Pro 33.7 cm / 39.6cm)</li> <li>- Fast charging speed of 100W; charges 55% of battery in 30 minutes</li> <li>- Quad Speaker: features AKG and Dolby Atmos</li> <li>- Supports Galaxy Ecosystem                   <ul style="list-style-type: none"> <li>• Multi Control: capable of using keyboard and mouse on a smartphone and a tablet; can transfer files or copy and paste files and images between devices</li> <li>• Second Screen: using Galaxy Tab as a dual monitor; capable of extending or replicating PC screen</li> </ul> </li> <li>- Quick Share: wireless file sharing between Galaxy devices, such as phone and tablet</li> </ul> </li> </ul>
	<ul style="list-style-type: none"> <li>□ Galaxy Book3 Pro 360 (February 2023)               <ul style="list-style-type: none"> <li>- Screen: 16.0" WQXGA+ AMOLED (16:10) 2880 x 1800, Touch Screen, DCI-P3 120%, S Pen</li> <li>- Size (W x H x D) &amp; weight: 16.0" 355.4 x 252.2 x 12.8mm, 1.66kg</li> <li>- Platform, OS: Intel® Core™ Processor 13th Gen CPU, Windows 11</li> <li>- Dynamic AMOLED 2X: 3K (2880x1800), 500nit (HDR), 120Hz, DCI-P3 120%</li> <li>- S Pen &amp; Touchscreen support</li> <li>- 1080p FHD Camera (87-degree wide angle, supports Auto Framing, which recognizes users and adjusts them to the center of the screen)</li> <li>- Quad SPK (AKG/Dolby, Max 5Wx2, 2Wx2), Studio Grade Dual Mic</li> <li>- SSD: Gen4 SSD</li> <li>- Supports WiFi 6E</li> <li>- Battery: 76Wh</li> <li>- Galaxy Apps: Quick Share, 2nd Screen, Multi-Control, Samsung Pass, etc.</li> <li>- Security: supports Secured-Core PC with enhanced security for each stage for hardware, firmware, and software</li> </ul> </li> </ul>
	<ul style="list-style-type: none"> <li>□ Galaxy Book3 Pro (February 2023)               <ul style="list-style-type: none"> <li>- Screen: 16" WQXGA+ AMOLED (16:10), up to 500nit (HDR), 120Hz, DCI-P3 120% 14" WQXGA+ AMOLED (16:10), up to 500nit (HDR), 120Hz, DCI-P3 120%</li> <li>- Size (W x H x D) &amp; weight: 16" 355.4 x 250.4 x 12.5mm 1.56kg 14" 312.3 x 223.8 x 11.3mm 1.17kg</li> <li>- Platform, OS: Intel® Core™ Processor 13th Gen CPU, Windows 11</li> <li>- Dynamic AMOLED 2X: 3K (2880 x 1800), 500nit (HDR), 120Hz, DCI-P3 120%</li> <li>- 1080p FHD Camera (87-degree wide angle, supports Auto Framing, which recognizes users and adjusts them to the center of the screen)</li> <li>- Quad SPK (AKG/Dolby, Max 5Wx2, 2Wx2), Studio Grade Dual Mic</li> <li>- SSD: Gen4 SSD, Expendable SSD (M.2 2280)</li> <li>- Supports WiFi 6E</li> <li>- Battery: 16" 76Wh, 14" 63Wh</li> <li>- Galaxy Apps: Quick Share, 2nd Screen, Multi-Control, Samsung Pass, etc.</li> <li>- Security: supports Secured-Core PC with enhanced security for each stage for hardware, firmware, and software</li> </ul> </li> </ul>

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Research project	Details
	<ul style="list-style-type: none"> <li>□ Galaxy Book3 360 (February 2023)               <ul style="list-style-type: none"> <li>- Screen:15.6" FHD Super AMOLED (16:9), up to 500nit (HDR), DCI-P3 120% 13.3" FHD Super AMOLED (16:9), up to 500nit (HDR), DCI-P3 120%</li> <li>- Size (W x H x D) &amp; weight: 15.6" 355.4 x 228.0 x 13.7mm, 1.49kg 13.3" 304.4 x 202.0 x 12.9 mm, 1.16kg</li> <li>- Platform, OS: Intel 13th Gen CPU (EVO Verified by Intel), Windows 11</li> <li>- sAMOLED: 1080p FHD, 500nit (HDR), 60Hz, DCI-P3 120%</li> <li>- S Pen &amp; Touchscreen support</li> <li>- 1080p FHD Camera (87-degree wide angle, supports Auto Framing, which recognizes users and adjusts them to the center of the screen)</li> <li>- Stereo SPK (Dolby, 2Wx2), Studio Grade Dual Mic</li> <li>- SSD: Gen4 DRAM-less SSD, Expendable SSD (15.6")</li> <li>- Supports WiFi 6E</li> <li>- Battery: 15.6" 68Wh, 13.3" 61.1Wh</li> <li>- Galaxy Apps: Quick Share, 2nd Screen, Multi-Control, Samsung Pass, etc.</li> <li>- Security: supports Secured-Core PC with enhanced security for each stage for hardware, firmware, and software</li> </ul> </li> </ul>
	<ul style="list-style-type: none"> <li>□ Galaxy Book4 Ultra (January 2024)               <ul style="list-style-type: none"> <li>- Screen: 16" WQXGA+ AMOLED (16:10) Touch Screen, Anti-Reflection</li> <li>- Size (W x D x H) &amp; weight: 355.4 x 250.4 x 16.5mm, 1.86kg</li> <li>- Platform, OS: Intel® Core™ Ultra Processor, Windows 11</li> <li>- Dynamic AMOLED 2X: 3K (2880x1800), 120Hz, color volume 120% (DCI-P3 basis), 500nit (HDR)</li> <li>- Graphic: NVIDIA® GeForce RTX™ 4050/4070</li> <li>- AKG Quad speaker (Woofer Max 5W x 2, Tweeter 2W x 2), Smart Amp, Dolby Atmos®, 2M Camera</li> <li>- Memory, SSD : LPDDR5X, NVMe SSD</li> <li>- Bluetooth v5.3, WiFi 6E, 802.11 ax 2x2</li> <li>- Battery: 76Wh (typical)</li> </ul> </li> </ul>
	<ul style="list-style-type: none"> <li>□ Galaxy Book4 Pro 360 (January 2024)               <ul style="list-style-type: none"> <li>- Screen: 16" WQXGA+ AMOLED (16:10) Touch Screen, Anti-Reflection, supports S-pen</li> <li>- Size (W x H x D) &amp; weight: 355.4 x 252.2 x 12.8mm, 1.66kg</li> <li>- Platform, OS: Intel® Core™ Ultra Processor, Windows 11</li> <li>- Dynamic AMOLED 2X: 3K (2880x1800), 120Hz, 120% color volume (DCI-P3 basis), 500nit (HDR), S-pen</li> <li>- Graphic: Intel® Arc™ Graphics</li> <li>- AKG Quad speaker (Woofer Max 5W x 2, Tweeter 2W x 2), Smart Amp, Dolby Atmos®, 2M Camera</li> <li>- Memory, SSD: LPDDR5X, NVMe SSD</li> <li>- Bluetooth v5.3, WiFi 6E, 802.11 ax 2x2</li> <li>- Battery: 76Wh (typical)</li> </ul> </li> </ul>
	<ul style="list-style-type: none"> <li>□ Galaxy Book4 Pro (January 2024)               <ul style="list-style-type: none"> <li>- Screen: 16" WQXGA+ AMOLED (16:10) Touch Screen, Anti-Reflection 14" WQXGA+ AMOLED (16:10) Touch Screen, Anti-Reflection</li> <li>- Size (W x H x D) &amp; weight: 16" 355.4 x 250.4 x 12.5mm, 1.56kg 14" 312.3 x 223.8 x 11.6mm, 1.23kg</li> <li>- Platform, OS: Intel® Core™ Ultra Processor, Windows 11</li> <li>- Dynamic AMOLED 2X: 3K (2880x1800), 120Hz, 120% color volume (DCI-P3 basis), 500nit (HDR)</li> <li>- Graphic: Intel® Arc™ Graphics</li> <li>- AKG Quad speaker (Woofer Max 5W x 2, Tweeter 2W x 2), Smart Amp, Dolby Atmos®, 2M Camera</li> <li>- Memory, SSD: LPDDR5X, NVMe SSD</li> <li>- Bluetooth v5.3, WiFi 6E, 802.11 ax 2x2</li> <li>- Battery: 16" 76Wh, 14" 63Wh (typical)</li> </ul> </li> </ul>

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Research project	Details
	<ul style="list-style-type: none"> <li>□ Galaxy Book4 Edge (June 2024)               <ul style="list-style-type: none"> <li>- Screen: 16" WQXGA+ AMOLED (16:10) Touch Screen, Anti-Reflective 14" WQXGA+ AMOLED (16:10) Touch Screen, Anti-Reflective</li> <li>- Size (W x H x D) &amp; weight: 16" 355.4 x 250.4 x 12.3mm, 1.56kg 14" 312.3 x 223.8 x 10.9mm, 1.19kg</li> <li>- Platform, OS: Qualcomm Snapdragon X Elite (12 core), Windows 11</li> <li>- Dynamic AMOLED 2X: 3K (2880x1800), 120Hz, color volume 120% (DCI-P3 basis), 400nit (HDR)</li> <li>- Graphic: Qualcomm Adreno</li> <li>- AKG Quad speaker (Max 5W x 4), AKG, Dolby Atmos, 2M Camera</li> <li>- Memory, SSD: 16GB, eUFS 512GB SSD</li> <li>- Bluetooth v5.3, WiFi 7, 802.11 a/b/g/n/ac/ax/be</li> <li>- Battery: 16"60.6Wh, 14"55.9Wh</li> <li>- Features AI functions to lead Next Gen AI PC market</li> </ul> </li> </ul>
Galaxy Watch ~Aug 2023	<ul style="list-style-type: none"> <li>□ Galaxy Watch5 &amp; Galaxy Watch5 Pro (August 2022)               <ul style="list-style-type: none"> <li>- Display: Watch5 Pro (46mm) : 34.6mm AMOLED (450 x 450) 330PPI Watch5 (44mm) : 34.6mm AMOLED (450 x 450) 330PPI Watch5 (40mm) : 30.4mm AMOLED (396 x 396) 330PPI</li> <li>- Size (W x H x D) &amp; weight: Watch5 Pro (46mm) 45.4 x 45.4 x 10.5 mm 46.5g Watch5 (44mm) 44.4 x 43.3 x 9.8 mm 33.5g Watch5 (40mm) 40.4 x 39.3 x 9.8 mm 28.7g</li> <li>- Platform (H/W, S/W): Exynos W920, Wear OS Powered by Samsung (Wear OS 3.5)</li> <li>- Signature circular design with adoption of sapphire crystal glass</li> <li>- Enhanced integrated health monitoring function equipped with the advanced BioActive Sensor                   <ul style="list-style-type: none"> <li>· Improved accuracy of body composition, heart rate, blood pressure, and ECG; and advanced sleep monitoring function</li> </ul> </li> <li>- Equipped with One UI Watch 4.5 based on Wear OS, which enables various Google mobile services and apps</li> <li>- Premium titanium body; optimized for outdoor activities with enhanced GPS tracking features (Watch5 Pro)                   <ul style="list-style-type: none"> <li>· Enhanced performance and durability for better utilization in outdoor activities, such as hiking and cycling</li> <li>· Provides Magnetic D-Buckle Sport Band, which offers better durability, convenience, and style</li> <li>· Save and share workout journey using Route Workout and GPS Exchange Format (GPX) files</li> <li>· Provides turn-by-turn navigation along previous routes through the Track Back feature</li> </ul> </li> <li>- Enables lengthy use for outdoor activities via the adoption of large-capacity battery (590mAh)</li> </ul> </li> </ul>



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Research project	Details
	<ul style="list-style-type: none"> <li>□ Galaxy Watch6 &amp; Galaxy Watch6 Classic (August 2023)               <ul style="list-style-type: none"> <li>- Display: Watch6 Classic (47mm): 37.3mm Super AMOLED (480 x 480)                    Watch6 Classic (43mm): 33.3mm Super AMOLED (432 x 432)                    Watch6 (44mm): 37.3mm Super AMOLED (480 x 480)                    Watch6 (40mm): 33.3mm Super AMOLED (432 x 432)</li> <li>- Size (W x H x D) &amp; weight: Watch6 Classic (47mm) → 46.5 x 46.5 x 10.9 mm 59.0g                    Watch6 Classic (43mm) → 42.5 x 42.5 x 10.9 mm 52.0g Watch6 (44mm) → 44.4 x 42.8 x 9.0 mm                    33.3g Watch6 (40mm) → 40.4 x 38.8 x 9.0 mm 28.7g</li> <li>- Platform (H/W, S/W): Exynos W930, Wear OS Powered by Samsung (Wear OS 4)</li> <li>- Design and performance that improve visibility                   <ul style="list-style-type: none"> <li>• Reduced bezel thickness and increased display size (by about 20%) compared to the previous model</li> <li>• Featured high-resolution Super AMOLED display with peak brightness of 2,000nit                       <ul style="list-style-type: none"> <li>- Provided enhanced sleep monitoring experience</li> </ul> </li> <li>• Shows sleep score via in-depth analyses of each measured factor and integrates the results</li> <li>• Offers enhanced, personalized sleep coaching program                       <ul style="list-style-type: none"> <li>- Introduced new features, including a more personalized fitness management program</li> </ul> </li> <li>• Provides a customized exercise guide by measuring heart rate within 5 cardiorespiratory capacity zones</li> <li>• Offers recording functions for track exercise, such as designation of the lane using the track running function</li> <li>• Features alarm functions to detect irregular heart rhythms                       <ul style="list-style-type: none"> <li>- Applied one-click band for effortless and convenient watch strip replacement</li> <li>- Strengthened performance by increasing battery capacity</li> </ul> </li> </ul> </li> <li>- Applied 47/44mm 425mAh, 43/40mm 300mAh</li> </ul> </li> </ul>
Galaxy buds ~Aug 2022	<ul style="list-style-type: none"> <li>□ Galaxy Buds 2 Pro (August 2022)               <ul style="list-style-type: none"> <li>- Kernel-type premium TWS that offers high-quality 24bit Hi-Fi audio and comfortable fit</li> <li>- Size (W x H x D): Earbuds 21.6mm x 19.9mm x 18.7mm                    Cradle 50.2mm x 50.1mm x 27.7mm</li> <li>- Platform (H/W, S/W): BES2700YP 1Chip solution, RTOS                   <ul style="list-style-type: none"> <li>• First Samsung Buds to apply 24bit/48kHz Hi-Fi technologies to offer a high-quality audio experience by minimizing loss of sound quality of the original recording; Intelligence ANC which adopts All High-SNR MIC, noise cancelling solution, and voice detect technology</li> <li>• Strengthened listening experience of the immersive 360 Audio feature via multi-channel audio and enhanced technology that tracks head movements</li> <li>• Provides clear and upgraded call quality through improved VPU and personalized beamforming technology</li> </ul> </li> <li>- Offers comfortable and stable fit thanks to the ergonomic design                   <ul style="list-style-type: none"> <li>• Improved fit through smaller size—15% size reduction compared to previous model—and enhanced structure of vent holes</li> </ul> </li> <li>- Strengthened user experience via easy connection between Galaxy Devices</li> <li>- Expanded the Auto Switch feature from smartphones, tablets, and watches to TVs, and the transition between devices is made easier and faster</li> </ul> </li> </ul>
<b>Networks</b>	
RAN S/W package ~Jun 2024	<ul style="list-style-type: none"> <li>□ vRAN* SW Package (November 2023)               <ul style="list-style-type: none"> <li>* vRAN (virtualized RAN)                   <ul style="list-style-type: none"> <li>- Integrated 4th generation CPU from company "I" into our vRAN SW Package, applying it to a vRAN commercial network for the first time in industry                       <ul style="list-style-type: none"> <li>• Successfully conducted data call on vRAN commercial network equipped with 4th generation CPU, following previous success in large-scale vRAN commercialization utilizing 3rd generation CPU</li> </ul> </li> </ul> </li> </ul> </li> <li>□ 5G vRAN SW PKG (June 2024)               <ul style="list-style-type: none"> <li>- Completed RedCap Energy-saving function test (testing for reducing power consumption in 5G IoT devices)                   <ul style="list-style-type: none"> <li>• Completed testing for vRAN-based 5G RedCap* Energy-saving technology for the first time in the industry</li> <li>• The Company has been validating vRAN RedCap technology (including commercial vRAN network in the US) and commercial functionality for both tRAN and vRAN will be provided in the future</li> </ul> </li> </ul> </li> </ul> <p>* RedCap (reduced capability): 5G low-power IoT technology</p>



## DX Division

Research project	Details
Base stations ~May 2023	<ul style="list-style-type: none"> <li>□ Domestic 3.5GHz NR 32T32R TDD MMU (February 2022)               <ul style="list-style-type: none"> <li>- Applied Mechanical PSA (phase shift antenna) for the first time                   <ul style="list-style-type: none"> <li>* Automatically controls the antenna angle (tilt 0-12°) inside the MMU with a motor</li> </ul> </li> </ul> </li> <li>□ Developed high-performance RFIC + DFE integrated chip (April 2022)               <ul style="list-style-type: none"> <li>* RFIC (Radio Frequency Integrated Circuit): high-frequency integrated circuit suitable for wireless communication</li> <li>* DFE (Digital Front End): last stage of digital signal processing for communication</li> </ul> </li> <li>□ Two types of FDD RU for Dish (Dual Band/Tri Band RU) (September 2022)               <ul style="list-style-type: none"> <li>- Developed 5G FDD RU product that complies with the O-RAN standard and supports multiple frequency bands at the same time</li> <li>* frequency supported by RU: n71 (600MHz), n29 (700MHz), n66 (AWS: 1.7GHz/2.1GHz), n70 (AWS: 1.7GHz/1.9GHz)</li> </ul> </li> <li>□ Gen.3 Dual Band NR 2T2R AU (October 2022)               <ul style="list-style-type: none"> <li>- Developed the world's first Dual Band (28GHz+39GHz) AU                   <ul style="list-style-type: none"> <li>- Upgraded product performance by increasing output and capacity twofold with the same size compared to the existing 2nd generation AU</li> </ul> </li> </ul> </li> <li>□ Domestic 3.5GHz NR 64T64R MMU (November 2022)               <ul style="list-style-type: none"> <li>- Developed 64T64R Massive MIMO MMU, which was commercialized in the domestic market for the first time</li> <li>- Increased antenna elements twofold and output by 2.7 times compared to the existing 32T32R MMU (old model) for the domestic market</li> </ul> </li> <li>□ 3.5GHz CBRS NR Strand Smallcell (March 2023)               <ul style="list-style-type: none"> <li>- Developed Strand Small Cell (small cell solution designed to be installed on cables) for the first commercial use</li> <li>- Cell solution that integrates baseband, radio, and antenna into a single form factor</li> <li>- Equipped with the Company's newest in-house chipset—2nd generation 5G modem SoC—and its small size enables installation on cables</li> </ul> </li> <li>□ C-band NR 64T64R MMU (2023.05.) for North America               <ul style="list-style-type: none"> <li>- More compact and lightweight 64T64R MMU allows higher output with low-power mode compared to the 1st generation</li> </ul> </li> </ul>
DRAM for mobile Sep 2023	<ul style="list-style-type: none"> <li>□ Development of industry's first LPCAMM               <ul style="list-style-type: none"> <li>- Developed LPDDR-based modules, leading the next-generation markets like PC and laptops</li> <li>- Improved performance by 50%, power efficiency by 70%, and mounting area by 60% compared to SO-DIMMs, and improved flexibility in manufacturing as well as user convenience with easy upgrade/replacement</li> <li>- Set to be tested using next-generation systems with major customers and slated for commercialization in 2024: expected to gain wide adoption in next-generation PCs, laptops and data centers.</li> </ul> </li> </ul>
DRAM for server Dec 2022–Sep 2023	<ul style="list-style-type: none"> <li>□ Development of industry's most advanced 12nm-class DRAM               <ul style="list-style-type: none"> <li>- Developed the industry's first 12nm-class 16Gb DDR5 DRAM, securing high-performance and low power features optimized for next-generation computing services</li> <li>- Improved productivity by approximately 20% and reduced power consumption by approximately 23% compared to previous models</li> <li>- Mass produced starting in 2023, providing optimal memory solutions for next-generation systems for customers, with applications expected to expand to data centers, AI, and next generation computing</li> </ul> </li> <li>□ Mass production of the industry's most advanced 12nm-class DRAM               <ul style="list-style-type: none"> <li>- Enhanced productivity and improved low power consumption characteristics compared to 14-nano DRAM, improving productivity by approximately 20% and reducing power consumption by approximately 23%, which maximizes next-generation computing</li> <li>- Produced via our completed highly advanced node that applies cutting-edge technologies, such as a capacitor utilizing a new material with a high dielectric constant</li> <li>- Provide high-performance and high-density DRAM solutions to meet demand for the high-throughput computing market and expand 12nm-class DRAM lineup, which will be supplied to various applications</li> </ul> </li> <li>□ Development of the largest-capacity 32Gb DDR5 DRAM to date               <ul style="list-style-type: none"> <li>- 40 years after the development of 64Kb DRAM in 1983, capacity has increased by 500,000 times</li> <li>- Enables the production of 128GB modules without TSV processes; improved power efficiency by 10% compared to 12-nano 16Gb based modules with the same capacity</li> <li>- Provides high density DRAM solutions optimized for AI and enables 1TB module production</li> <li>- Expects to enter mass production within 2024 to be supplied to various applications such as AI and next-generation computing</li> </ul> </li> </ul>

## DX Division

Research project	Details
Graphic DRAM July 2022–July 2023	<ul style="list-style-type: none"> <li>□ Development of GDDR6 DRAM, industry's one of the fastest graphic DRAMs                             <ul style="list-style-type: none"> <li>- First in the industry to deliver speeds up to 24Gbps by applying 3rd generation 10nm-class (1z) process</li> <li>- Met customer needs by enhancing performance by more than 30% compared to the previous product, leading to processing speeds of up to 1.1TB per second; supporting operation voltage of 1.1V; and improving power efficiency by 20%</li> <li>- Secured compatibility by being fully compliant with specifications of JEDEC, an international semiconductor standardization body</li> <li>- Expanded applications, including next-generation graphics cards, AI, and HPC</li> </ul> </li> <li>□ Development of GDDR6W, graphics memory that applies advanced packaging technology                             <ul style="list-style-type: none"> <li>- GDDR6W is manufactured by introducing Fan-Out Wafer-Level Packaging (FOWLP) technology—a construction and stacking technology—without developing a new memory die</li> <li>- Increased performance (bandwidth) and capacity by twofold while maintaining the same packaging size of GDDR6</li> </ul> </li> <li>□ Development of the industry's first GDDR7 DRAM                             <ul style="list-style-type: none"> <li>- With the development of industry's fastest 32Gbps GDDR7 DRAM, we improved performance by 1.4 times and power efficiency by 20% compared to the previous 24Gbps GDDR6</li> <li>- Minimized heat generation during high-speed operation through optimization of the circuit design with new package materials</li> <li>- Set to be tested using next-generation systems with major customers within this year and planned for a timely commercialization to gain wide adoption in next-generation graphic cards, high-performance computing and AI</li> </ul> </li> </ul>
HBM Oct 2022–Feb 2024	<ul style="list-style-type: none"> <li>□ Developed AI-accelerator equipped with HBM-PIM and GPU                             <ul style="list-style-type: none"> <li>- Materialized HBM-PIM Cluster by installing HBM-PIM memory in AMD's GPU accelerator</li> <li>- Compared to existing GPU accelerators, on average, the addition of HBM-PIM improved performance by more than double and reduced energy consumption by more than 50%</li> <li>- In preparation to provide software that supports accelerators equipped with HBM-PIM, so consumers are expected to be able to use PIM memory solutions in an integrated software environment</li> </ul> </li> <li>□ Unveiled ultra-high performance HBM3E DRAM Shinebolt that will lead AI technology innovation                             <ul style="list-style-type: none"> <li>- Provides high-performance of up to 9.8Gbps per one data input/output pin, allowing speed capable of processing up to 1.2TB of data per second</li> <li>- Achieves high-level stacking for HBM chips by optimizing non-conductive film technology for dense chip stacking without gaps, and improved heat transfer coefficient by maximizing heat conduction</li> <li>- Currently mass-producing 8-layer and 12-layer HBM3 products and delivering samples of the next-generation HBM3E to customers</li> </ul> </li> <li>□ Developed industry's first 36GB HBM3E 12H DRAM                             <ul style="list-style-type: none"> <li>- Achieved industry's highest capacity of 36GB by stacking 12 layers</li> <li>- With Advanced TC NCF technology, achieved 12-layer stacks by maintaining the same height as 8-layer HBM3 and also improved both performance and capacity by over 50%</li> <li>- Enhanced vertical integration with 7 micrometer chip spacing—the industry's smallest— and applied various bump sizes</li> <li>- Started sample shipping to customers, with mass production expected in 2H</li> </ul> </li> </ul>
NAND Nov 2022–Apr 2024	<ul style="list-style-type: none"> <li>□ Mass production of 8th generation V-NAND                             <ul style="list-style-type: none"> <li>- Mass production of 1Tb 8th generation V-NAND, which is among the highest capacities in the world</li> <li>- Significantly enhanced bit productivity per wafer and secured one of the industry's highest bit density</li> <li>- Enhanced performance by 1.2 times compared to existing model, featuring an input and output (I/O) speed of up to 2.4Gbps with the adoption of a next-generation interface</li> <li>- Expected to lead the trend of expanding storage capacity in next-generation enterprise servers and extend use into the automotive market, in which reliability is critical</li> </ul> </li> <li>□ Mass production of 9th generation V-NAND, an industry first                             <ul style="list-style-type: none"> <li>- Industry's first mass production of 1Tb TLC 9th generation V-NAND</li> <li>- Highest-layer V-NAND possible with Double Stack structure</li> <li>- Equipped with next-generation interface with the industry's smallest cell size and thinnest mold, demonstrating our technological leadership</li> <li>- The advanced technology reduces cell area and interference, boosting bit density by 1.5 times compared to its Gen 8 V-NAND</li> </ul> </li> </ul>

**DX Division**

Research project	Details
eStorage ~May 2022	<ul style="list-style-type: none"> <li>□ Development of highly advanced UFS 4.0                             <ul style="list-style-type: none"> <li>- Improved reading/writing speed by approximately twofold compared to UFS 3.1 product</li> <li>- Enhanced power efficiency by approximately 46% for processing the same amount of data, which allows longer hours of use</li> <li>- Improved a function that reads and saves customer's important data by adopting the latest security technologies</li> <li>- Expected to expand into consumer devices, such as smartphones, automotives, and VR/AR</li> </ul> </li> </ul>
SSD for server July 2022	<ul style="list-style-type: none"> <li>□ Development of '2nd generation smart SSD' with upgraded processing functionality                             <ul style="list-style-type: none"> <li>- Enhances processing functionality by twofold and cuts processing time by over 50%, energy consumption by up to 70%, and CPU utilization by up to 97%</li> <li>- Processes data directly, thereby improving system performance and energy efficiency at the same time</li> <li>- Actively address various market needs, including database and video transcoding</li> <li>- Lead standardization of computational storage and increase development of next-generation storage products</li> </ul> </li> </ul>
SSD for client Jan 2023	<ul style="list-style-type: none"> <li>□ Mass production of PM9C1a, a high-performance PC SSD equipped with a 5nm controller                             <ul style="list-style-type: none"> <li>- Elevated performance with a new 5nm controller and 7th generation V-NAND</li> <li>- Enhanced speed by up to 1.8 times and power efficiency by up to 70% vs the previous generation</li> <li>- Supports device authentication and verification technology with strengthened security solutions such as the new adoption of the Device Identifier Composition Engine (DICE) security standard</li> </ul> </li> </ul>
Brand SSD Apr 2022–Jan 2024	<ul style="list-style-type: none"> <li>□ Released portable SSD 'T7 Shield' for experts that offers both performance and durability                             <ul style="list-style-type: none"> <li>- Built with dust and water resistance and drop resistance up to 3m</li> <li>- Transmits data stably without performance degradation, including when recording and editing high-resolution videos</li> </ul> </li> <li>□ Unveiled high-performance SSD '990 PRO' optimized for gaming                             <ul style="list-style-type: none"> <li>- Offers unparalleled performance by featuring the latest V-NAND technology and a new proprietary controller</li> <li>- Enhanced speed by up to 55% and power efficiency by up to 50% compared to previous model</li> <li>- Offers optimal performance for an environment in which ultra-high speed data processing is required, such as high-performance graphic games and 4K/8K high-resolution videos</li> </ul> </li> <li>□ Released high-performance SSD '990 PRO' 4TB                             <ul style="list-style-type: none"> <li>- Offers the fastest random read speed among PCIe 4.0-based consumer SSDs by applying state-of-art 8th generation V-NAND and achieving industry's highest performance</li> <li>- Optimized for tasks that require ultra-fast data processing, such as high-performance games and 3D/4K graphics</li> <li>- Strengthened compatibility and heat dissipation through design and application of a heat diffuser and heat sink</li> </ul> </li> <li>□ Launched ultra-fast portable SSD 'T9'                             <ul style="list-style-type: none"> <li>- Supports new data transmission interface, USB 3.2 Gen2x2, achieving approximately 2x improvement in consecutive reading/writing compared to the previous generation</li> <li>- Improves surface materials and achieves software optimization to reduce degradation and overheating during transmission of large files</li> </ul> </li> <li>□ Launched 8TB portable SSD T5 EVO, the largest capacity in industry                             <ul style="list-style-type: none"> <li>- Provides consecutive reading/writing with a speed of up to 460MB/s based on USB3.2 Gen1</li> <li>- Enhanced portability with compact size and weight, and metal ring</li> <li>- Equipped with overheating prevention and hardware data encryption technologies</li> </ul> </li> <li>□ Launched customer SSD '990 EVO' with high-performance and versatility                             <ul style="list-style-type: none"> <li>- Improved reading/writing speed by up to 43% compared to 970 EVO Plus</li> <li>- Enhanced power efficiency by up to 70% with new 5nm controller</li> <li>- Supports the next generation interface PCIe 5.0 x2</li> <li>- Enhances cost competitiveness with host memory buffer technology</li> </ul> </li> </ul>

**DX Division**

Research project	Details
CXL May 2022–Jun 2024	<ul style="list-style-type: none"> <li>□ Development of industry's first high-capacity 512GB CXL DRAM                             <ul style="list-style-type: none"> <li>- Enhanced capacity of CXL DRAM by four times, which allows expansion of over tens of terabytes per server</li> <li>- Equipped with CXL-exclusive controller, reducing data latency by 1/5</li> </ul> </li> <li>□ Development of CXL-based PNM solution for high-capacity AI models                             <ul style="list-style-type: none"> <li>- PNM's (Processing-near-Memory) computational functions are performed closer to the memory to reduce the bottleneck between the CPU and memory data transference and to improve system performance</li> <li>- Enhanced performance by approximately twofold in applications, such as recommendation systems or in-memory databases, that require high memory bandwidth</li> </ul> </li> <li>□ Development of industry's first CXL 2.0 DRAM                             <ul style="list-style-type: none"> <li>- Overcomes limitations of DRAM modules, enabling expansion of bandwidth and capacity</li> <li>- Reduced server operation costs by supporting memory pooling, which assists splitting-use of CXL DRAM</li> <li>- Expands CXL ecosystem through continued collaboration with data centers and server and chipset companies; and become an industry leader by promptly addressing demand in the next-generation computing market</li> </ul> </li> <li>□ Established industry's first Red Hat certified CXL infrastructure                             <ul style="list-style-type: none"> <li>- Established Red Hat certified CXL infrastructure in the SMRC, Samsung Electronics' internal research facility, allowing for in-house verification of all server components, from products to software</li> <li>- Conducted rapid product development, including the industry's first CMM-D Red Hat certification, providing customized solutions for clients</li> <li>- Demonstrated technology for CXL-based server performance enhancement at the Red Hat Summit 2024 in the US</li> </ul> </li> </ul>
Brand card May 2022-Feb 2024	<ul style="list-style-type: none"> <li>□ Released memory card 'PRO Endurance' with enhanced performance and durability                             <ul style="list-style-type: none"> <li>- Adopts high-quality server-level NAND durability that allows up to 16 years of continuous recording time</li> <li>- Optimized for high-resolution (4K, Full HD) video recording equipment, such as surveillance video and black box</li> <li>- Keeps stable recording performance even in tough conditions, applies 6-proof protection</li> <li>- Supports speed of Class 10, UHS Class U3, and video speed of Class V30; can continuously record Full HD · 4K high-resolution videos</li> </ul> </li> <li>□ Released memory card 'PRO Ultimate' with enhanced speed and stability                             <ul style="list-style-type: none"> <li>- 'PRO Ultimate' provides the highest level of 200MB/s read speed and 130MB/s write speed under the UHS-I standard, improving power efficiency by 37% compared to previous models and achieving data protection against extreme external conditions such as water, moisture, abrasion, X-ray, and temperature.</li> <li>- Provides the optimal SD Cards/Micro SD Cards for high-resolution content work catering to professional photographers and creators who use devices like drones, action cameras, and DSLR</li> </ul> </li> <li>□ Developed industry-first SD Express microSD Card                             <ul style="list-style-type: none"> <li>- Offers industry's highest continuous reading performance of 800MB/s and 256GB capacity</li> <li>- First to apply Dynamic Thermal Guard technology—which has been used in SSDs—to effectively addressed overheating in small form factors</li> </ul> </li> <li>□ Mass produced high-density 1TB UHS-I micro SDcard, based on the most recent V-NAND                             <ul style="list-style-type: none"> <li>- Achieved terabyte-level capacity in microSD cards with 8th generation V-NAND</li> <li>- Ensures data protection data in extreme environments (e.g. water, abrasion from dropping)</li> </ul> </li> </ul>
Automotives Jul 2023-Oct 2023	<ul style="list-style-type: none"> <li>□ Mass production of ultra-low-power UFS 3.1 for vehicles                             <ul style="list-style-type: none"> <li>- Began mass production of Infotainment (IVI) UFS 3.1 for vehicles, which has the lowest power consumption in the industry and is optimized for EVs and autonomous vehicles</li> <li>- Offers 33% lower power consumption compared to the previous generation, with a maximum read speed of 2,000MB/s and a maximum write speed of 700MB/s for 256GB</li> <li>- Strengthened storage product lineup for automotives by establishing lineup of 128GB/256GB/512GB products to meet various customer needs; and established UFS 3.1 products for advanced driver assistance systems</li> </ul> </li> <li>□ Unveiled key solutions for vehicles to reach no.1 in automotive memory market in 2025                             <ul style="list-style-type: none"> <li>- Unveiled Detachable AutoSSD that allows multiple SoCs to use a single SSD divided through storage virtualization, supporting consecutive read speed up to 6,500MB/s and providing 4TB capacity</li> <li>- Showcased high bandwidth GDDR7 for vehicles and LPDDR5X with reduced packaging size</li> </ul> </li> </ul>

Division	
Research project	Details
<b>System LSI</b> Image sensor Jan 2022–Jun 2024	<ul style="list-style-type: none"> <li>□ Unveiled 200-megapixel image sensor, industry's smallest pixel size (HP3, 0.56um/200Mp)               <ul style="list-style-type: none"> <li>- Reduced camera module area by up to 20% with 12% smaller pixels compared to the previous HP1 (0.64um)</li> <li>- With the Super Quad Phase Detection (QPD) technology, enables auto-focusing feature for all 200 megapixels</li> <li>- Utilizes Tetra2pixel technology, which offers vivid picture quality even in low-light environments</li> <li>- Improves picture resolution for 200 megapixel and usability of a 50 megapixel sensor zoom by applying AI-based image process solutions</li> </ul> </li> <li>□ Launched 200-megapixel image sensor combined with ultra-high resolution technologies (HP2, 0.6um/200Mp)               <ul style="list-style-type: none"> <li>- Applied Dual Vertical Transfer Gate technology—industry's first—and enhanced color expression and picture quality</li> <li>- Leveraged Tetra2pixel technology, offering vivid picture quality even in low-lit environments</li> <li>- Adopted Dual Slope Gain, creating an HDR image as high as 50MP—industry's first</li> <li>- Applied Super QPD, which allows the sensor to use all its pixels for auto-focusing</li> </ul> </li> <li>□ Launched industry's highest- performance image sensor for vehicles (1H1, 2.1um/8.3Mp)               <ul style="list-style-type: none"> <li>- Enables automotive 120dB HDR, LFM (LED flicker mitigation) and motion-artifact free simultaneously</li> <li>- Applies DTI (deep trench isolation) to prevent interference between adjacent pixels and improves low-light SNR</li> </ul> </li> <li>□ Unveiled ISOCELL vision 63D iTOF (indirect time of flight) sensor (63D, 3.5um/0.3Mp)               <ul style="list-style-type: none"> <li>- Measures three dimensional information of objects by sensing light wavelengths</li> <li>- An industry-first single-chip iTOF sensor which reduces system power consumption by 40% compared to the previous sensor (33D)</li> <li>- Supports surface light source and point light source modes and extends maximum measurement distance to 10m</li> </ul> </li> <li>□ Unveiled ISOCELL Vision 931 Global Shutter sensor (931, 2.2um/0.4Mp)               <ul style="list-style-type: none"> <li>- Simultaneously exposes all pixels to light, just like the human eye, increasing speed and accuracy.</li> <li>- Recognizes even minute movements in the user's pupils, facial expressions, hand motions, etc.</li> </ul> </li> <li>□ Unveiled industry's first 200-megapixel mobile image sensor for telephoto camera (HP9, 0.56um/200Mp)               <ul style="list-style-type: none"> <li>- Significantly improved low-light sensitivity with micro-lens using newly developed proprietary materials</li> <li>- Clear image quality up to 12X zoom when mounted on 3X telephoto module</li> </ul> </li> <li>□ Launched Dual Pixel ISOCELL GNJ, the quintessence of new pixel technology (GNJ, 1.0um/50Mp)               <ul style="list-style-type: none"> <li>- Delivers sharp resolution as sensor itself is equipped with a built-in zoom function, eliminating moiré effects</li> <li>- Improves light transmission rate by minimizing pixel interference by changing isolation layer materials between pixels</li> </ul> </li> <li>□ Launched ISOCELL JN5 to offer consistent camera experience across all view angles (JN5, 0.64um/50Mp)               <ul style="list-style-type: none"> <li>- Thin optical format allows use in wide-angle, ultra-wide-angle, front-facing and telephoto lenses</li> </ul> </li> </ul>
Exynos Jan 2022–Mar 2024	<ul style="list-style-type: none"> <li>□ Released premium mobile AP 'Exynos 2200'               <ul style="list-style-type: none"> <li>- Adopted the next-generation GPU Xclipse jointly developed with AMD, maximized gaming performance and power efficiency</li> <li>- Enabled Ray Tracing technology based on hardware on mobile devices—a first in the industry</li> <li>- Strengthened performance and security by adopting the core based on the latest ARM CPU architecture 'ArmV9'</li> <li>- Enhanced NPU performance by more than twofold compared to the previous model, significantly enhanced machine learning performance</li> </ul> </li> <li>□ Secured internationally standardized 5G non-terrestrial networks (NTN) modem technology for satellite communications               <ul style="list-style-type: none"> <li>- Reflects the latest standard (Release-17) of 3GPP, which unites telecommunications standard development organizations</li> <li>- Adopted technologies that accurately predict low Earth orbit satellite locations and minimize frequency offsets</li> <li>- Supports two-way transmission of large-capacity data, including text messaging and video sharing</li> </ul> </li> <li>□ Unveiled Exynos Connect U100, an ultra-wideband (UWB) chipset for short-range wireless communications               <ul style="list-style-type: none"> <li>- Provides an accuracy of single-digit centimeters and 5-degrees and under</li> <li>- Low-power, one-chip solution optimized for various mobile, automotive, and IoT devices</li> <li>- Equipped with a scrambled timestamp sequence (STS) function and a secure hardware encryption engine to prevent external hacking</li> <li>- Certified by FiRa Consortium, an organization that certifies UWB products for conformity to interoperability standards</li> </ul> </li> <li>□ Expands Samsung Electronics-AMD partnership for next-generation graphic design asset               <ul style="list-style-type: none"> <li>- Offers console-level gaming experiences on various devices beyond smartphones</li> <li>- Expands eco-system for next-generation graphic solution R&amp;D</li> </ul> </li> <li>□ First Infotainment collaboration with Hyundai Motor Company</li> </ul>

	<ul style="list-style-type: none"> <li>- Supplies Exynos Auto V920 for premium infotainment to Hyundai</li> <li>- Significantly enhanced performance compared to the previous V910 model, offering optimal mobility experiences for drivers</li> <li>- Offers high level of safety by adopting ASIL-B safety standard for vehicle system</li> <li>□ Unveiled advanced Mobile AP Exynos 2400 <ul style="list-style-type: none"> <li>- Offers industry's highest performance of ray tracing with 2.1 times higher level of performance compared to the previous model</li> <li>- With enhanced AI performance, it provides on-device generative AI functions without internet connection</li> <li>- First Exynos to adopt Non-Terrestrial Network technology</li> </ul> </li> <li>□ Unveiled latest technology mobile AP Exynos 1480 <ul style="list-style-type: none"> <li>- Improved power efficiency by 22% over the previous model by applying the latest 4nm technology</li> <li>- Features content recognition image processing with powerful AI function</li> <li>- Enhanced graphics performance over the previous generation with AMD RDNA-based Xclipse 530 GPU</li> </ul> </li> </ul>
SLSI Jan 2022	<ul style="list-style-type: none"> <li>□ Released all-in-one fingerprint security IC for biometric payment cards (S3B512C) <ul style="list-style-type: none"> <li>- Combines hardware security chip (SE, Secure Element), fingerprint sensor, and Secure Processor in one IC</li> </ul> </li> <li>□ Received globally accredited certifications in security, EAL6+ from Common Criteria (CC) and global online card payment technical standard (EMVCo) and proved security in line with Mastercard's Biometric Evaluation Plan Summary.</li> </ul>
<b>Foundry</b>	
World's first 3nm process that adopts GAA technology Jun 2022	<ul style="list-style-type: none"> <li>□ World's first mass production of 3nm process that adopts Gate-All-Around (GAA) transistor technology <ul style="list-style-type: none"> <li>- Maximized power efficiency and performance by implementing 'MBCFET', our in-house GAA technology that utilizes nanosheets</li> <li>- 1st-generation 3nm process reduced power consumption by 45%, improved performance by 23%, and reduced surface area by 16% compared to 5nm</li> </ul> </li> <li>□ GAA technology overcomes the performance limitations of FinFET, allowing to continue to make smaller chips <ul style="list-style-type: none"> <li>- The gate surrounds all four faces of the channel, which enables finer control of current flow and reduces operating voltage and power consumption</li> <li>- The structure in which the channels are piled up vertically boosts performance as it increases channel width per unit area and allows greater amount of current to flow</li> <li>- The width of channels can be adjusted, giving better design flexibility</li> <li>- Providing verified 3nm design infrastructure and services with ecosystem partners</li> <li>- Planning to expand adoption into high-performance, low-power system semiconductors for HPC, mobile SoCs, etc.</li> </ul> </li> </ul>

## SDC

Research project	Details
<b>Display panel</b>	
55/65" QD-Display Jan 2022	<ul style="list-style-type: none"> <li>□ World's first QD-Display for TV (55" UHD, 65" UHD)               <ul style="list-style-type: none"> <li>- Exceptional wide color gamut of BT2020 90%</li> <li>- Expresses outstanding brightness and color at any angle with QD display which emits light evenly across all directions</li> <li>- Excellent HDR performance, deep and detailed black expression</li> </ul> </li> </ul>
34" QD-Display Mar 2022	<ul style="list-style-type: none"> <li>□ World's first QD-Display for monitor (34" QHD)               <ul style="list-style-type: none"> <li>- Provides superb gaming experience by supporting 175Hz, 0.1ms, 1800r, HDR True Black, and G-Sync</li> <li>- Outstanding color, viewing angle, and contrast ratio and minimized exposure to blue light</li> </ul> </li> </ul>
Foldable OLED for Galaxy Z Fold 4 Aug 2022	<ul style="list-style-type: none"> <li>□ Promoting additional improvements compared to previous model               <ul style="list-style-type: none"> <li>- Significantly improved display quality in the location of the Under Panel Camera while maintaining camera performance and emphasized large-screen experience</li> <li>- Enhanced energy efficiency with Eco2 OLED Plus with improved transmittance efficiency</li> <li>- Reduced costs and weight via integrated FRP-Digitizer panel</li> </ul> </li> </ul>
14/16" OLED for Galaxy Book 3 Pro Feb 2023	<ul style="list-style-type: none"> <li>□ Development of the world's first large-sized (16") OCTA technology               <ul style="list-style-type: none"> <li>- Expanded the application of OCTA—touch-integrated technology—from smartphone OLED to middle-sized laptop OLED panels</li> <li>- Minimized the dead space of panels via development of new materials and process technologies</li> <li>- Reduced power consumption with the first adoption of OLED notebooks with refresh rate of 48–120Hz</li> </ul> </li> </ul>
16" OLED Development for HP Elitebook Apr 2023	<ul style="list-style-type: none"> <li>□ Achieves power-efficiency and durability through improvements in OLED organic materials               <ul style="list-style-type: none"> <li>- 16" WQ+ (2,880 x 1,800, 16:10)</li> <li>- Applied 48Hz–120Hz, VRR (Variable Refresh Rate) and received AMD Freesync Premium Pro certification; provides an optimal gaming environment</li> </ul> </li> </ul>
OLED for Google Pixel 8 pro Oct 2023	<ul style="list-style-type: none"> <li>□ Through application of new OLED materials that are highly efficient and long-lasting, high luminance (HBM 1,600nits, peak 2,400nits) was achieved.               <ul style="list-style-type: none"> <li>- 6.7" WQXGA+ (1,344 x 2,992)</li> <li>- Applied 1–120Hz VRR (variable refresh rate) and technology to minimize dead space</li> </ul> </li> </ul>
Galaxy S24 AMOLED Jan 2024	<ul style="list-style-type: none"> <li>□ Galaxy S24 (6.16"FHD+, 6.66"WQ+, 6.79WQ+)               <ul style="list-style-type: none"> <li>- Combines high-resolution low power consumption technology with technology to minimize panel dead space</li> <li>- Achieves high-luminance, low power and slim bezel and improves image quality and user experience</li> </ul> </li> </ul>
31.5"UHD, 27"QHD QD-OLED Jan 2024	<ul style="list-style-type: none"> <li>□ Developed 31.5" (140ppi), 27" (360Hz) QD-OLED monitor               <ul style="list-style-type: none"> <li>- Developed self-emitting display with high-resolution (140ppi) and high refresh rate (360Hz) with precision inkjet printing technology and Samsung's AI-based operating algorithms</li> </ul> </li> </ul>
BMW Mini 13.4" 185ppi Jun 2024	<ul style="list-style-type: none"> <li>□ 13.4" Round OLED Display for vehicle Center Information Display (1,752 x 1,660)               <ul style="list-style-type: none"> <li>- Applies round automotive displays for the first time</li> <li>- Ensures uniform characteristics across areas on atypical displays with newly developed compensation circuit and panel structure</li> <li>- Developed large-area atypical OCTA technology</li> </ul> </li> </ul>
Surface Pro 10 May 2024	<ul style="list-style-type: none"> <li>□ 13" WQ+ (2,880x1,920, 3:2)               <ul style="list-style-type: none"> <li>- 30Hz low-frequency drive technology for notebook OLED for the first time, achieving low power consumption (variable refresh rate from 30 to 120Hz)</li> </ul> </li> </ul>