TO SUSTAINABLE GROWTH

Samsung SDS Sustainability Report 2023

SAMSUNG SDS

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About This Report

Samsung SDS has published the 2023 Sustainability Report to transparently disclose the economic, social, and environmental values and outcomes generated through our business activities to various stakeholders. This report serves as a communication channel to annually share Samsung SDS' sustainability management activities, outcomes, and future plans with stakeholders.

Reporting Standards

This report has been prepared in accordance with the Core Option of the Global Reporting Initiatives(GRI) Standards, as well as global sustainability management standards and recommendations such as the UN SDGs(Sustainable Development Goals), TCFD(Task Force on Climate-related Financial Disclosures), and SASB(Sustainability Accounting Standards Board).

Reporting Scope

This report covers Samsung SDS headquarters and all subsidiaries. Financial performance data is based upon consolidated K-IFRS accounting standards. Any data requiring additional attention in terms of reporting scope and boundary has been annotated separately.

Reporting Period

This report covers the ESG performance and activities from January 1, 2022, to December 31, 2022, and includes some information extending until the first half of 2023. In addition, quantitative performance includes data from the latest three years to illustrate the annual trends.

Reporting Cycle

Annual (previous edition published in June 2022)

Third-Party Assurance

This report has been assured by the BSI Group Korea, an independent third-party assurance provider, to guarantee the report's reliability. The verification was conducted in accordance with the AA1000AS v3 standard, and the verification level included Type 2 verification for the performance of key issues identified.

Samsung SDS

Address: 125, Olympic-ro 35-gil, Songpa-gu, Seoul, Republic of Korea Website: http://www.samsungsds.com

Organization in Charge

Samsung SDS Corporate Sustainability Management Office Email: esg.sds@samsung.com 5

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Message from ESG Committee Chairperson



"The ESG Committee will provide direction for realizing Samsung SDS' ESG vision and core values, and strive to achieve performance in each ESG area to enhance Samsung SDS' sustainability."

My warmest regards to all, I am Seung-Ah Cho, the Chairperson of Samsung SDS' ESG Committee.

We would like to begin by expressing our sincere gratitude to all of you for your warm support and encouragement towards Samsung SDS.

Throughout the year, our ESG Committee has diligently examined and addressed key issues in each ESG area, actively practicing responsible management. In particular, we have prioritized our contribution to overcoming the global challenge of climate crisis. This has involved thorough discussions on managing carbon emissions throughout the entire value chain and fostering environmentally sustainable practices through the adoption of cutting-edge technologies. Furthermore, Samsung SDS continues to engage in constructive discussions on ways to contribute to the well-being of stakeholders as a global member of the international community. We also strive to enhance the transparency and soundness of our governance structure.

2023 will be a significant year for Samsung SDS as we establish a vision and strategy that reflects our unique ESG core values and expand them into key business areas.

To address our customers' ESG challenges and support sustainable growth through our digital capabilities, we will prioritize the following initiatives:

Integration of ESG values into our products and services.

We will provide eco-friendly cloud services through data center energy efficiency and develop low-carbon logistics products, creating ESG value in our products and services, and delivering them to our customers.

Enhancing global ESG capabilities.

We will apply our accumulated ESG management capabilities over the years to our domestic and overseas subsidiaries, securing competitiveness to adapt to the rapidly changing global ESG business environment.

Reinforcement of ESG execution.

We will be committed to driving ESG management activities effectively and systematically. To ensure the success of our efforts, we have established the Corporate Sustainability Management Office under the direct supervision of the CFO. Furthermore, we will strengthen internal and external communication, an endeavor aimed at further boosting the credibility of our sustainability commitments.

We would like to express our gratitude to everyone who always believes in and supports Samsung SDS. We sincerely thank you and kindly ask for your continued interest and unwavering support in the future.

Seung-Ah Cho Chairperson of the Samsung SDS ESG Committee

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Message from the CEO



"Samsung SDS' IT technology is a pivotal asset in unlocking a sustainable future for all."

Dear respected stakeholders,

I would like to express my heartfelt gratitude to all stakeholders for their unwavering support of Samsung SDS.

In 2022, the importance of sustainable growth for companies was further emphasized due to economic and social challenges such as climate crisis, international conflicts, and economic downturn. In response, Samsung SDS revitalized our sustainability management system, centered around the ESG Committee and has actively pursued genuine ESG management activities.

To actively participate in overcoming the climate crisis, we have constructed environmentally friendly and high-performance data centers with global-leading energy efficiency. Furthermore, the greenhouse gas management system has been further enhanced. In addition, we are taking a leading role in researching Eco-Cloud technology, which reduces carbon emissions through data center energy efficiency. In the logistics field, we have developed and implemented a carbon emission monitoring system, and we are also preparing low-carbon transportation products and services.

In addition, we have conducted a scenario analysis on the potential risks of future climate change and have disclosed the results in this report. We believe that this will greatly contribute to understanding the impact of climate change on our company and help in formulating effective response strategies.

Samsung SDS also acknowledges stakeholder happiness as a fundamental value that corporations should strive for.

We established a safety and environmental system to create a safe and healthy work environment for our employees and we have strengthened our process of supporting ESG education and performance evaluation processes for suppliers. Moreover, we continue to engage in social contribution activities, such as providing. IT education for adolescents that aligns with the nature of our business.

As IT technology rapidly develops, the importance of digital responsibility is being increasingly emphasized.

Samsung SDS is making various efforts to minimize the potential social side effects of digital technology utilization and maximize our advantages. As the first domestic IT service company, Samsung SDS has obtained international standard certification for open source and has established inspection and management systems for personal information processing. These efforts are aimed at reducing the negative impact of digital technology and maximizing our benefits.

From 2023 onwards, we will continue to pursue consistent ESG management and make efforts to deliver various ESG elements directly to our customers through our business, adding more direct value.

To achieve this, we have established detailed business strategies that are aligned with ESG for each business area. Recently, we have selected the ESG vision slogan "IT is the Key to Sustainable Growth.", which signifies our ability to lead customers towards a sustainable future through our digital capabilities. We will make collective efforts, with all members of the company aligned towards the same ESG vision, to meet the expectations of our stakeholders.

We look forward to your continued interest and support in the sustainable future that Samsung SDS is set to create.

Thank you.



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Samsung SDS provides enterprise-optimized cloud-based IT services and logistics services based on digital logistics platforms.

Samsung SDS at a Glance



Key Business Areas of Samsung SDS

IT Services

Samsung Cloud Platform leverages our differentiated technological capabilities and expertise across various industries and processes to provide Hybrid/Multi-Cloud services, SaaS adoption and operation, and cloud-based digital transformation services that utilize digital technologies.



Sales



Logistics Service

Samsung SDS provides global integrated logistics services, focusing on export-import logistics services, from customer's supply chain planning to logistics execution, through our digital logistics platform(Cello Square) that combines innovative IT technologies.





Operating Profit

KRW 284.5billion

Operating Profit

KRW 631, 6billion

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Global Network

As of the end of 2022, Samsung SDS operates on a global scale across 40 countries, 59 offices and 17 data centers worldwide.



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Our Subsidiaries

Within our ecosystem, Samsung SDS operates subsidiaries specializing in consulting, application development and operation, education BPO, and security.



1)HRD: Human Resource Development 2)MES: Manufacturing Execution System 3)VPN: Virtual Private Network 4)WIPS: Wireless Intrusion Prevention System

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Business Innovation

Leveraging 38 years of trailblazing experience in guiding customer IT transformations, we provide cloud-based digital transformation solutions.



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Business Performance

Operating Profit







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Cloud Service

Cloud Services that Best Fit Businesses

Samsung SDS is a global CSP + MSP provider that combines customized cloud services tailored to business needs with SaaS solutions for business innovation, offering all-in-one managed services from consulting to application modernization on a business platform.



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Digital Logistics Services

More Simplified and Convenient Digital Forwarding Services

Samsung SDS provides a one-stop service covering all areas of logistics, including digital forwarding, leveraging our digital logistics platform, Cello Square. With 56 branches and over 6,700 logistics experts across 36 countries, Samsung SDS delivers more convenient, transparent, and optimized global integrated logistics services.

🔼 Cello Square



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Business Competitiveness

Samsung SDS is enhancing our business competitiveness through proactive recruitment of specialized talents, development of core technologies, expansion of strategic investments, and the establishment of partnerships.



High levels in software capability testing

5 core technologies training

Data scientist



Technical Competitiveness

Securing technical leadership through core technology development and patent registration



First IT service provider in Korea



Strategic Investment and Partnerships

8 strategic investments and signed partnerships with 76 companies over the past three years to enhance global technical capabilities and business
 Strategic investment



Ministry of SMEs and Startups - Samsung SDS

Hancom - Samsung SDS

중소벤처기업부 Ministry of EMEs and Etartups

Agreement signed to resolve logistics difficulties for SMEs and foster mutual cooperation

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Agreement signed to develop linked RPA solution based on AI technology

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Awards & Recognition

Samsung SDS' cloud capabilities and customer innovation capabilities have been recognized for their excellence by global professional evaluation organizations.

Cloud



- Gartner: MQ Data Center Outsourcing and Hybrid Infrastructure Managed Services, Global(2022, 2021)
- The state of the
- $\,\cdot\,$ First Korean company to become $\mathsf{KCSP}^{1)}$ and $\mathsf{CNCF}^{2)}$ Gold Member

Customer Innovation



- **Gartner.** 21st in the Global IT Service(2021) / 1st in manufacturing, 3rd in the APAC region(excluding Japan)
- Gartner, 7th in the Global BPO(2021)
- CIOIOO 10 awards for customer IT innovation projects(7 consecutive years)



 C Market Scape - Worldwide Managed Cloud Security Services in the Multicloud(2022) /Asia Pacific Cloud Security Services(2021)
 Frost & Sullivan 'Global Company of the Year' - South Korea Cybersecurity Services(2022) / MSS³¹(2021, 2020)



- Possession of 8500+ Cloud expert certifications(AWS, Azure, OCI)
- First Korean company to join AWS exclusive global business network
- First Korean company to become AWS SaaS Competency Partner
- First Korean company to become AWS Security Competency Consulting Partner



- Gartner. MQ ERP, AI, RPA SAP S/4HANA Application Services(2022, 2021, 2020), Data Science and Machine Learning Platforms(2021), Robotic Process Automation(2022, 2021, 2020)
 C Market Scape - ERP, AI, CRM - Asia/Pacific SAP Implementation Services(2022, 2020), Asia/Pacific Salesforce Implementation Services(2022), Asia/Pacific AI Life-Cycle Software Tools and Platforms(2022), Asia/Pacific Vision AI Software Platform(2021)
- FORRESTER[®] Selected as a representative company in 'Now Tech'
 ERP, IoT fields SAP Implementation Services Provider(2022, 2020), IoT Consultancies In Asia Pacific(2022)





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Sustainability Impacts

Impact Analysis Process

Samsung SDS measures and manages the environmental and social impacts generated throughout our overall business activities to achieve better decision-making. As a responsible member of society, we analyze the diverse impacts generated by Samsung SDS. The value created by the company in 2022 is categorized into Economic Impact, Social Impact, and Environmental Impact.



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Sustainability Impacts

Impact Analysis



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ESG Ratings



* Given to the top 5%

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Materiality Analysis

Samsung SDS has conducted a double materiality assessment, applying international standards, to identify sustainability issues throughout our business activities and align with the expectations of various stakeholders. This assessment aims to determine the significance of these issues and prioritize them accordingly. Samsung SDS will communicate with stakeholders regarding 2022 activities, achievements, and future plans in relation to these material issues, and will continue sustainable management by addressing these material issues.

Materiality Matrix



Samsung SDS Sustainability Material Issues

| Environ- | 4 GHG emissions management and reduction | | 3 Talent attraction and development |
|----------|--|--------|---|
| ment | 8 Expand renewable energy usage | | 5 Respect for human rights and diversity |
| | 1 Information Security | Social | 6 Create a quality organizational culture |
| Gover- | 2 Compliance and business ethics | | Manage health and safety |
| Harree | 9 Digital Responsibility | | Supply chain ESG management |

Potential Issues

Social contribution | Manage climate change risk | Strengthen service quality and improve customer satisfaction | Generate stable profits | Eco-friendly data centers | Enhance growth through cloud services | Provide eco-friendly logistics services | Communication between executives and employees | Strengthen responsible management of the board of directors | Establish environmental management strategies and systems | Expand into new business areas | Manage and reduce water consumption | Expand stakeholder communication | Shared growth | Biodiversity | Establish sustainability management strategies and systems

Financial Materiality

| No. | Area | Material Issues | Changes Compared to the Previous Year | Type of Impact ¹⁾ | GRI Standards | References |
|-----|-------------|---|---------------------------------------|------------------------------|-------------------|-----------------------|
| 1 | Governance | Information Security | New | Negative | 418-1 | 42~43, 103~106, 110 |
| 2 | Governance | Compliance and business ethics | Up (5 ⇔ 2) | Negative | 205-1,2,3 / 206-1 | 98~102, 110 |
| 3 | Social | Talent attraction and development | Up (10 ⇔ 3) | Positive | 404-1,2,3 | 57~59, 112~113 |
| 4 | Environment | GHG emissions management and reduction | Down (3 ⇔ 4) | Complex | 305-1~5 | 36~38, 47~49, 117~118 |
| 5 | Social | Respect for human rights and diversity | Down (4 ⇔ 5) | Positive | 405-1,2 / 410-1 | 54~56, 112 |
| 6 | Social | Create a quality organizational culture | New | Positive | - | 60~63 |
| 7 | Social | Manage health and safety | New | Negative | 403-1~10 | 70~75 |
| 8 | Environment | Expand renewable energy usage | New | Complex | 302-4 | 38, 50, 117 |
| 9 | Governance | Digital Responsibility | New | Negative | 418-1 | 40~43, 110 |
| 10 | Social | Supply chain ESG management | Down (9 ⇔ 10) | Complex | 308-1,2 | 82~84, 116 |

1) Each material issue can be classified as "Positive" if it is likely to act as an opportunity factor for both internal and external stakeholders, "Negative" if it is likely to act as a risk factor, and "Complex" if it has a combined effect.

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Materiality Analysis

Double Materiality Assessment Process

Step 01 Create Issue Pool

Samsung SDS has identified a total of 50 issues by analyzing the impacts of Samsung SDS in terms of Economic Impact, Social Impact, and Environmental Impact, in order to assess how well they align with sustainable management and international standards.

Step 02 Determine Key Issues

Based on various media investigations and research, Samsung SDS has reviewed internal data and selected a total of 26 key issues in the IT and logistics industries.

Step 03 Analyze Double Materiality

Samsung SDS reviewed a total of 26 key focal areas, dividing them into financial materiality and impact materiality, to determine their priority.

Financial Materiality Evaluation

Incorporate the sustainability topics that are of high interest to external experts.
Benchmark sustainability key issues among 13 companies in the same industry
Internal stakeholder survey(employees)

Impact Materiality Evaluation

 Analyze international standards(GRI Standards, DJSI, ISO 26000, KCGS, UN SDGs, TCFD, SASB)
 Media research and studies related to Samsung SDS(from January 2022 to January 2023 / a total of 698 articles)
 External stakeholder survey(customers, suppliers, shareholders, investors, researchers,

NGO, etc)

| | Materiality Survey for Stakeholders | | | | | | | | | | |
|--------|---------------------------------------|--------|--|--|--|--|--|--|--|--|--|
| Period | February 23rd, 2023 ~ March 3rd, 2023 | | · Assessment of Samsung SDS' sustainable management performance | | | | | | | | |
| Method | Online Survey | Detail | Materiality evaluation Gathering opinions on Samsung SDS' sustainable management activities | | | | | | | | |
| Target | Internal and external stakeholders | | and Sustainability Reports | | | | | | | | |

Step 04 Double Materiality Assessment Result

Samsung SDS has reported the results of the double materiality assessment to ESG committee, which identified a total of 10 material issues: 4 in terms of overall importance, 3 in terms of Financial materiality, and 3 in terms of Impact materiality.

These material issues have been disclosed transparently in the current sustainability report and demonstrated ESG committee.

Double Materiality

The double materiality assessment is a method of evaluating a company's material issues by considering both the Financial materiality of the external environment (environment and society) on the company and the Impact materiality of the company on the external environment (environment and society). International standards in the field of sustainability reporting, including GRI, have adopted the concept of double materiality to strengthen reporting criteria.



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Materiality Analysis

Material Issues and Value Chain

Applying the result of the materiality analysis to work process, Samsung SDS will enhance ESG management by reflecting theses material issues.

| | | | Samsung SDS Work Process | | | | | | | | | | | | | |
|------|--|------------------------|--------------------------|-----------------------------------|-----------------------------|--|--|---------------------|---|---------------------------------------|-----------------------|------------------|---------------------|----------------------|--------------------|---------------------|
| Mate | rial Issues | Marketing/ Planning | R&D | Business/ Opportunity Mgmt. | Purchasing/ Supply Chain | Business Development and Operation | International and Domestic Logistics | CX/Failure Mgmt. | Manufac- turing/ Network Operation | Quality Improvement/ Risk Mgmt. | Strategic Planning | Tax/ Treasury | Mgmt. Innovation | Audit/ Compliance | Communi- cation | Security Control |
| - | Manage and reduce GHG emissions | • | • | | • | | • | | • | | | | • | | • | |
| Ľ | Expand renewable energy usage | • | ٠ | | • | | • | | | | • | | | | • | |
| | Talent attraction and development | • | • | | | | | | | | | | | | | |
| | Respect for human rights and diversity | | | • | • | | • | | | | | | | • | • | • |
| S | Create a quality organizational culture | • | • | • | | • | | | | • | | | • | | • | |
| | Manage health and safety | | | • | • | • | • | | • | • | | | | • | | |
| | Supply chain ESG management | | | • | • | • | • | | • | • | • | | | | | |
| | Information Security | | | | | | | • | • | • | | | | | | • |
| G | Compliance and business ethics | | | • | | | • | | | • | | • | | • | | • |
| | Digital Responsibility | | • | | • | | | | | • | | | | • | | • |

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Stakeholder Engagement and Communication

Samsung SDS defines key stakeholders associated with our business activities into six groups: customers, shareholders and investors, employees, local communities, suppliers, and the media. We value the opinions of each group and strives to build strong relationships based on trust. In addition, we actively work towards achieving the UN Sustainable Development Goals (SDGs) in collaboration with our stakeholders, contributing to the global efforts in addressing cross-border challenges.



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| | | | 1. 日本語を見ている。 いちとう 「「「「「「「「」」 | Digital Responsibility | |

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| | Sustainability Management | t Strategy Framework | Sustainability Manageme | nt Implementation System | Strategy for Sustainable Business | Climate Change Response | Digital Responsibility |

Sustainability Management Strategy Framework

Sustainability Management Strategy

Samsung SDS has established a new framework for our sustainability strategy with the aim of actively contributing to the resolution of customers' ESG(Environmental, Social, and Governance) challenges through our digital capabilities and providing support to them.



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Sustainability Management Strategy Framework

Sustainability Management Implementation Roadmap

Samsung SDS has established a phased implementation roadmap and set mid-to-long-term tasks for the enhancement of ESG management. We are committed to realizing our sustainable management strategy through effective coordination and communication among business units and relevant departments.

| | | | 2023 | 2024 | 2025 | 2030 | 2050 | | |
|----------|---------------------------------------|--|---|---|---|---|--|--|--|
| | Phased Imple | ementation | Establishing quick-win task | s and foundational structures for ES in the short term | G strategy implementation | Elevating ESG management th mid-to-long-t | Elevating ESG management through the implementation of mid-to-long-term strategies | | |
| | (GD) | Cloud Services | Securing high-efficiency equipment and liquid cooling system database · Establishing a basis for carbon emissions measurement | Developing a guide for liquid cooling design Providing low emissions simulations and Open API | • Conducting proof of con- cept(PoC) validation for liquid cooling system implementation | Implementing liquid cooling within the data center Designing high-efficiency/ high-performance hardware | • Building a Net Zero data center based on renewable technology | | |
| Business | | Logistics | • Developing and providing a cus- tomer-centric carbon dashboard | • Developing and providing environme services | entally friendly logistics products/ | Providing environmentally friendly logistics consulting services | • Establishing a management system for environmentally conscious implementations and offering priority services | | |
| | C C C C C C C C C C C C C C C C C C C | Solutions | Establishing an ESG value measurement system Formulating new business initiative | Measuring the effect of customer ESG value Acquiring ESG solution business capabilities | Monetizing measured ESG value Driving ESG solution new business initiative | • Advancing and expanding the ESG s | olution business | | |
| Oper | ***** | Subsidiaries and Overseas Corporations | Expanding ESG application in subsidiaries and overseas subsidiaries Establishing roles and responsibili- ties(R&R) and gathering essential data | • Expanding the scope of data collection and measuring social/ environmental benefits | Setting improvement goals and targets for each subsidiary and overseas subsidiaries | • Managing ESG performance of subsi | diaries and overseas subsidiaries | | |
| ration | ···· P | Communi- cations | Expanding communication channels for ESG strategy formulation | Increasing channel-specific communication Building an internal ESG portal | Responding to global ESG disclosures Improving the operation of the internal ESG portal | · Executing impact communication | | | |

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Sustainability Management Implementation System

Sustainable Management Governance



ESG Committee

In 2021, Samsung SDS reinforced our sustainable management governance by establishing the ESG Committee under the Board of Directors. The objective was to collaboratively create sustainable value with diverse stake-holders and foster a more proactive approach to sustainable management.

The ESG Committee comprises four independent directors and one executive director, with the aim of enhancing corporate value from an ESG perspective and fostering collaborative sustainable value creation with diverse stakeholders. In the future, Samsung SDS will maintain an active role in deliberating and making decisions on specific issues related to environment, society, governance, as well as ESG strategies, policy establishment, and implementation activities. Our aim is to consistently expand our impact and contribution in these areas.





Committee Member

(Independent Director)





Jae Jin Lee Committee Member (Independent Director)

Sungwoo Hwang Committee Member (Executive Director)

ESG Council

Seung-Ah Cho

Committee Chairman

(Independent Director)

The CFO-led ESG Council has been established to facilitate communication between relevant departments in the field of sustainability management and to address operational-level sustainable management tasks. The ESG Council reviews and addresses matters that are then reported to the ESG Committee. It convenes on a monthly basis or as needed when relevant issues arise, playing a crucial role in responding to sustainable tasks.

Moo II Moon

Committee Member

(Independent Director)

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Cloud Services

Low Power, Environmentally Friendly Data Center

Samsung SDS operates five data centers in Korea, leading the way in data center technology innovation with a strong emphasis on energy conservation and environmental safety. We are strategically dedicated to continuous research to improve energy efficiency, which includes replacing outdated equipment and expanding the use of high-efficiency equipment. Additionally, we are establishing technical standards for the implementation of Liquid Cooling technology¹⁰.

PUE²⁾ 1.1

Liquid Cooling Ready Dongtan Data Center Korea's first high-performance computing exclusive data center





Liquid Cooling: A technology that uses a liquid with high thermal conductivity to cool IT equipment, instead of using gas
 Power Usage Effectiveness (PUE): An index showing how efficiently a data center uses energy. The closer to 1.0, the more efficient
 Initial Free Cooling System

SPECIAL SECTION

Dongtan Data Center

Samsung SDS built the Dongtan Data Center to meet the rapidly increasing demand for high-performance computing (HPC), which commenced operations in February 2023. The server rooms within the Dongtan Data Center are maintained at a standard temperature of 27°C, which is higher compared to the typical operating temperature of 22°C in most data centers. This strategic approach enables Samsung SDS to achieve significant energy savings in cooling operations. Cooling towers are deployed to achieve approximately 70% efficiency in cooling. Furthermore, we have optimized energy consumption at the data center by employing solar power generation facilities and high-efficiency through its refined power design. Samsung SDS aims to achieve globally unparalleled power usage efficiency by incorporating cutting-edge cooling technology (liquid cooling), implementing waste heat recovery systems, and maximizing the utilization of renewable energy.



4) Minimizes AC-DC conversion to save energy 5) Available Zone

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Cloud Services

Customer-tailored Carbon Emission Information

Samsung SDS plans to assist customer ESG activities by supplying dashboards detailing carbon emission status and reduction effects on the Samsung Cloud Platform (SCP), catering to SCP users and Open API users.

· Provision of dashboard for viewing carbon emission status and reduction effects

- Comprehensive carbon emission checks including monthly and year-end projections
- Period, product-line and AZ based status check
- Providing widget-based personalized information based on customer's main product usage history



• Development of simulation feature for efficient management of customer's carbon emissions

- Providing carbon emission simulation features for each activity such as product application, modification, and inquiry
- Mock carbon emission estimations linked with cost calculator on the SCP portal
- Expanding customer ESG activities through provision of Open API for carbon emission metrics information

Identification and Proposal of Carbon Emission Reduction Elements

Samsung SDS aims to expand our carbon footprint information service in the future by leveraging carbon emission data. This initiative will empower customers to visualize the impact of reducing carbon emissions through the utilization of our cloud services, thereby assisting them in managing their ESG performance.

- Securing and analyzing pre- and post-cloud conversion carbon emission reduction cases
 Measuring the carbon emission reduction effects of customers' cloud adoption by identifying instances of carbon emission reduction after implementing Samsung SDS' MSP operations
- Analyzing the ESG value of opting for its MSPs



· Leveraging cloud transformation to enhance customer propositions

- Integrating ESG principles within MSP service offerings and contemplating to introduce new offerings to capture future ESG value in customer propositions
- Establishing carbon emission reduction process and service

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Logistics Service

Eco-friendly Logistics Services

Samsung SDS' Logistics Service is committed to delivering globally integrated logistics outsourcing services underpinned by IT technology and consulting capabilities. Our goal is to assist customers in optimizing their logistics through Cello solutions. These solutions encompass advanced logistics processes,



innovative IT technologies, and optimization methodologies, leveraging our extensive experience, expertise, and references in executing logistics across various industries. As a result, this contributes to a reduction in carbon emissions. Cello solutions allow customers to optimize transportation routes and cargo loading in all aspects of international and local transportation, as well as warehouse operations, thereby enabling more eco-friendly logistics operations such as shifting from air to sea transportation. Furthermore, Samsung SDS assists in enhancing logistics strategies, processes, and IT elements by analyzing customers' current situations and challenges, leveraging our extensive logistics consulting experience across various industries. As a result of these efforts, Samsung SDS was awarded the Green Logistics Certification in January 2022. Moreover, we hold annual Cello Conference sessions to share best practices with suppliers including transportation companies.



Cello Square Conference



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Logistics Service

Cello Carbon Emission Management System

While Samsung SDS' logistics services do not directly generate carbon emissions since they involve contracts with executing companies responsible for actual transportation, our objective is to contribute to carbon emission reduction for customers. To achieve this, we aim to broaden our management scope to include Scope 3 emissions, which pertain to indirect emissions.

In pursuit of this objective, Samsung SDS began systematically collecting Scope 3 logistics carbon emission data from 2022. We manage carbon emissions utilizing data such as arrival and departure destinations, as well as cargo weights, which are managed within the Cello solution. Additionally, Samsung SDS aims to strengthen public trust by integrating with EcoTransIT, a solution widely utilized by leading global logistics companies.

Providing Carbon Emission Information and Developing Low-carbon Logistics Services

By leveraging Cello, a unified global solution, Samsung SDS' logistics services efficiently manage carbon emission information in a consistent and integrated manner. This capability allows Samsung SDS to provide carbon emission data from various perspectives to meet the specific requirements of our customers. In the first half of 2023, Samsung SDS developed a customer-centric dashboard that offers both an overview and detailed reports, segmented by transportation mode and time period. Additionally, Samsung SDS aims to collaborate with global shipping companies to develop low-carbon transportation products, thereby directly contributing to carbon emission reduction. We are committed to leading the transition towards environmentally-friendly logistics by securing competitive freight rates and minimizing carbon emissions.







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Solutions

Establishment of ESG Value Delivery System

Samsung SDS is committed to developing a system to communicate ESG values to customers through our solutions. Our goal is to provide a clear pathway for customers to identify and leverage the ESG value they can achieve by utilizing our solutions.



💪 Brity RPA

Automation of simple, repetitive tasks with Al-based RPA solutions, bringing about productivity improvements as well as innovative transformations in corporate culture and customer value

Direction of implementation

Uncovering ESG value and calculating effectiveness for Brity RPA customers
 Identifying environmentally friendly improvement cases, such as reduced carbon emissions, through the automation of repetitive tasks

 SAMSUNG SDS
 Providing differentiated end-to-end services covering all aspects of supply chain management(SCM) including Process Innovation(PI), system setup, and maintenance, leveraging the expertise of the largest SCM specialist organization in Korea.

 Direction of implementation
 Direction of implementation

 • Discovering ESG-related values such as operational efficiency enhancement cases and minimization of unused resources through various solutions

 Developing decision support systems within Nexprime SCM that are based on an ESG perspective

ESG Platform

In anticipation of the mandatory ESG disclosure requirement for publicly-traded companies with assets exceeding KRW 2 trillion, effective in 2025, and the proliferation of ESG information management items, Samsung SDS initiated the application of an ESG platform for ESG information management in September 2022. The ESG platform oversees more than 640 ESG indicators, and Samsung SDS is augmenting the efficiency and accuracy of data management by integrating with existing systems like ERP, HR, and supply chain.

In 2023, Samsung SDS plans to expand the ESG platform beyond the headquarters and extend it to overseas subsidiaries and affiliates, ensuring consistent data management across all entities. Building upon our expertise in constructing and operating the ESG platform, Samsung SDS is actively exploring the commercialization of ESG solutions.



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Climate Change Response

Governance

At Samsung SDS, the responsibility for climate change response lies with the Board of Directors (BOD) and the ESG Committee, which has been delegated authority by the BOD. They oversee the decision-making and supervision of the climate change strategy is managed by the environmental management organization, with a focus on the EHS Center. This center consistently identifies environmental management tasks and drives eco-friendly projects across different sectors.

ESG Committee

The ESG Committee was established with the delegated authority from the BOD to examine issues and agendas related to ESG, including climate change response. The Committee deliberates and resolves significant matters related to management activities in a more professional manner. Recognizing the increasing importance of ESG management, Samsung SDS appointed Ms. Seung-Ah Cho, an independent director specializing in business strategy and international management, as the chairman of the ESG Committee. The members of the ESG Committee conduct discussions and make decisions related to climate change response, leveraging their respective expertise and experience.

Composition of Committee

| Category | Name | Position | Expertise and Role |
|-----------|---------------|--------------------------|--|
| Chairman | Seung-Ah Cho | Independent Director | Establishment of climate change response strategies, international cooperation |
| | Hyun-Han Shin | Independent Director | Risk analysis, review of financial impacts |
| Committee | Moo II Moon | Independent Director | Review of regulations related to climate change |
| Member | Jae Jin Lee | Independent Director | Research on carbon emission reduction technologies for data center |
| | Sungwoo Hwang | Executive Director (CEO) | Review of business alignment with climate change response strategies |

Climate Change-related Report/Approval Agenda

| Committee Meeting Date | Agenda | Attendance Rate |
|------------------------|--|-----------------|
| January 27, 2022 | \cdot Report on the operation plan of the environmental management organization | 100% |
| July 28, 2022 | \cdot Report on the promotion of specialized environmental management tasks | 80% |
| September 29, 2022 | Approval of carbon neutrality targets Report on RE100 membership progress | 100% |
| October 27, 2022 | \cdot Report on Scope 3 carbon emissions status and management plan | 100% |

Climate Change Response Governance Structure



Committee Workshops

| Workshop Date | Workshop Contents |
|----------------|--|
| April 13, 2022 | [TOPIC] Discussion on Carbon Neutrality Direction · Understanding global trends and the need for carbon neutrality · Discussion on the basic direction of carbon neutrality |
| May 16, 2022 | [TOPIC] Review of Carbon Neutrality Goals and Renewable Energy Transition Plans · Identifying the status of carbon neutrality initiatives of key competitors/partners across different industries · Analysis of carbon emission status and scenarios for achieving carbon neutrality at different time points · Trends in the renewable energy market and expected purchase costs |

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Climate Change Response

Strategy | Analysis of Climate Change Risk and Opportunity Factors

To formulate a comprehensive strategy for climate change response, Samsung SDS has projected potential financial impacts in the short, medium, and long term. This is done in accordance with the TCFD guidelines, considering the risks and opportunities presented by climate change. Risks were analyzed based on policy, legal, technological, market, reputation, and acute and chronic physical risk factors in the context of transitioning to a low-carbon economy. Opportunities were identified and categorized according to their nature into resource efficiency, energy sources, products and services, markets, and resilience.

Risk Factors

| | Туре | | | Timeframe ¹⁾ | | | |
|---------------------|-----------------------|---|--|-------------------------|----------------|--------------|--|
| Category | | Content | Potential Financial Impact | Short Term | Medium Term | Long Term | |
| Transition Risks | Policy/ Regulatory | Reinforcing mandatory disclosure of GHG emissions information | Increased indirect cost | ٠ | | | |
| | | Increase in carbon price due to tighten- ing regulations such as carbon tax and carbon credit | Increased operating cost | ٠ | ٠ | • | |
| | | Risk of litigation due to climate-relat- ed legislation such as EU Corporate Sustainability Due Diligence | Increased litigation cost | | | • | |
| | Technol- ogy | Emergence of low-carbon alternatives for IT/logistics services | Decreased revenue | ٠ | ٠ | | |
| | | Cost burden due to investment in low-power technology for data centers | Increased direct cost | ٠ | • | | |
| | | Failure of new technology investment | Increased financial risk | | | ۲ | |
| | Market | Strengthening of carbon neutral requirements and eco-friendly purchas- ing policy by clients | Increased direct costs and decreased revenue | | • | • | |
| | | Increase in energy costs due to the transition to renewable energy in the power sector | Increased direct cost | ٠ | ٠ | | |
| | | Increase in logistics cost due to carbon reduction in the logistics sector such as the introduction of eco-friendly fuels | Increased direct cost | ٠ | ٠ | • | |
| | Reputa- tion | Decrease in consumer preference due to carbon emissions of product/service | Increased transition cost | | • | ٠ | |
| | | Increase in negative feedback from stakeholders | Declined corporate reputation | | | • | |
| | | Decline in external evaluation rating on climate change response | Increased credit risk | • | • | • | |
| Physical Risks | Acute | Fluvial flooding | Decreased operating profit | | ٠ | | |
| | | Intensifying drought | Declined asset value | | • | ٠ | |
| | | Wildfires | Decreased productivity | | • | • | |
| | Chronic | Extreme temperature | Increased operating costs and decreased productivity | | | • | |

Opportunity Factors

| | Туре | | Potential Financial | Timeframe | | | |
|------------------|------------------------|--|---|---------------|----------------|--------------|--|
| Category | | Content | Impact | Short Term | Medium Term | Long Term | |
| Oppor- tunity | Resource Efficiency | Energy efficiency in data centers through the application of liquid cooling technology | Reduced operating costs | • | ٠ | | |
| | | Minimizing waste battery production through the application of UPS-less technology | Reduced operating costs | • | ٠ | | |
| | | Transport efficiency through digital logistics platforms | Reduced costs and increased profits | ٠ | ٠ | • | |
| | Energy Sources | Utilization of policy incentives for renew- able energy | Reduced operating costs | | ٠ | | |
| | | Participation in the carbon credit trading mar- ket (purchase or sale of remaining credits) | Reduced operating costs and improved profitability | • | ٠ | | |
| | | Enhancing energy supply stability through distributed power generation | Improved profitability | | | • | |
| | Product/ Services | Development of eco-friendly cloud services | Increased revenue | ٠ | ٠ | | |
| | | Expansion of low-carbon logistics goods and services | Increased revenue | • | • | | |
| | | Increase in consumer preference for low-carbon products/services | Increased product/ service demand | ٠ | ٠ | • | |
| | Market | Increase in demand for digital transforma- tion and IT services to reduce total energy | Increased revenue | | ٠ | • | |
| | | Enhancement of access to the low-carbon logistics market | Increased revenue | | • | • | |
| | | Utilization of policy incentives in the public sector, such as price subsidies for low-carbon products | Reduced direct cost | | ٠ | • | |
| | | Mitigation of power cost volatility through long-term renewable energy supply contracts | Reduced operating costs and increased productivity | | | ٠ | |
| | Resilience | Decrease in dependence on external power through self-reduction of carbon emissions | Enhanced productivity | • | ٠ | • | |

1) Timeframe: Short term 3 years (2023-2025), Medium term 5 years (2026-2030), Long term 20 years (2031-2050)

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Climate Change Response

Strategy | Analysis of Climate Change Risk Scenarios

Transition Risks

To assess the financial implications of transition risks on Samsung SDS, we conducted a scenario analysis in collaboration with S&P Global, focusing on carbon price risk. By evaluating three carbon price scenarios (high/ moderate/low) and two emissions scenarios (BAU and Net-Zero), Samsung SDS calculated the total carbon cost associated with each scenario and determined the proportion of these costs relative to our total operating expenses (OPEX).

| Carbon Price Scenarios | High-intensity mitigation (high): Limiting global warming to within 2°C by 2100(1.6°C to 2°C, IRENA) Moderate mitigation: Long-term limit at 2°C (based on OECD & IEA research) Low-intensity mitigation (low): No separate target (3.1°C to 4°C, IEA NPS) |
|---------------------------|--|
| Emissions Scenarios | BAU: Projected emissions if the current level of self-reduction is continued Net Zero: Projected emissions if the company achieves carbon neutrality by 2050 |

Initially, Samsung SDS computed the internal carbon price by considering the anticipated increase in carbon prices by country under the carbon price scenario and the global business sites where Samsung SDS operates. The analysis showed that it would increase from \$14 in 2022 to \$151 in 2050 under the High reduction scenario.



Based on the BAU emissions scenario, the total cost of carbon price risk ascends from \$7.9 million in 2025 to \$15.8 million in 2050 under the High mitigation scenario. These costs represent a share of operating expenses(OPEX) amounting to 0.06% in 2025 and 0.16% in 2050. Despite the upward trend in costs driven by rising carbon prices and emissions, they remain a small percentage of OPEX and are not considered a significant risk.


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Climate Change Response

Strategy | Analysis of Climate Change Risk Scenarios

Physical Risks

Samsung SDS employed S&P Global's Climanomics service to perform a physical risk analysis. We projected average annualized asset value losses and decade-spanning losses from 2020 to 2090 for seven climate hazards, including fluvial flooding, abnormally high temperatures, drought, wildfires, coastal flooding, tropical cyclones, water shortages under the RCP scenarios(RCP 2.6, 4.5, 6.0, and 8.5) of the IPCC Fifth Assessment Report.

| Scenario | Definition | Carbon dioxide concentration in 2100 | Average temperature from 2081 to 2100 |
|----------|--|--------------------------------------|--|
| RCP 2.6 | Implementation of all emissions reduction policies | 420ppm | +1.3℃ |
| RCP 4.5 | Substantial implementation of mitigation policies | 540ppm | +2.4℃ |
| RCP 6.0 | Partial enforcement of mitigation policy | 670ppm | +2.7℃ |
| RCP 8.5 | Continuance of emissions at current trend | 940ppm | +4.0℃ |

According to this analysis, under the RCP 8.5 scenario, which presents the highest climate change risk, Samsung SDS' asset loss rate is projected to be 22.9% in 2030 and 40.3% in 2050. Conversely, in the RCP 2.6 scenario, which has the lowest risk, the asset loss rate was comparatively low at 8.9% in 2030 and 18.2% in 2050.

Projected Asset Losses from Physical Risks





Among the seven climate hazards, the greatest impact on asset loss is expected to be caused by fluvial flooding, with some degree of impact also expected from extreme temperature and drought. However, the risks of wildfires, coastal inundation, cyclones, and water stress are considered to have minimal potential for loss. The assets with high loss rates are the Sangam Data Center and Suwon Data Center, which are located near rivers and require high recovery costs due to the nature of data centers.

Asset Loss Rate by RCP Scenario

| Scenario | Year | Fluvial Flooding | Temper- ature Extremes | Drought | Wildfire | Coastal Flooding | Tropical Cyclone | Water Stress |
|----------|------|---------------------|------------------------------|---------|----------|---------------------|---------------------|-----------------|
| PCD26 | 2030 | 3.1 % | 3.1 % | 2.6 % | - | - | - | - |
| KCP 2.6 | 2050 | 11.1 % | 4.3 % | 2.7 % | - | - | - | - |
| | 2030 | 16.3 % | 3.4 % | 3.1 % | 0.1 % | - | - | - |
| KCP 8,5 | 2050 | 30.9 % | 5.6% | 3.7 % | 0.1% | - | - | - |

Response to Physical Risks

Fluvial Flooding

For the most likely risk of fluvial flooding, response scenarios are being established, taking into account the elevation of the ground where the assets are located and the highest water levels during past floods. Countermeasures are being implemented for facilities with a relatively high potential for flooding, such as parking lots and entrances. These measures include the installation and placement of flood barriers, protective shutters, and water pumping stations to prepare for such events.

Extreme Temperature and Drought

In situations of extreme temperature and drought, there are concerns regarding additional operating costs and reduced productivity due to decreased cooling efficiency. Samsung SDS plans to mitigate such risks by continuously enhancing cooling efficiency, which involves expanding cooling facilities in data centers, upgrading outdated facilities, and applying liquid cooling technology.

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Climate Change Response

Strategy | Strategy for Climate Change Response

To minimize the negative impact of climate change risks and opportunities in business Samsung SDS has established climate change response strategies in alignment with international agreements like the Paris Agreement and national goals for carbon neutrality by 2050. We have implemented greenhouse gas management systems across all business units, including subsidiaries and overseas branches, to reduce and offset emissions. Additionally, Samsung SDS plans to achieve carbon neutrality by transitioning the energy used in data centers to renewable sources.



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Climate Change Response

Risk Management

Samsung SDS has established a systematic process to identify, assess, and develop response strategies for the risks and opportunities posed by climate change. This risk management process extends not only to directly operated facilities but also to the entire value chain. It is integrated into the company-wide risk management process.

Integrated Climate Change Risk Management Process

Sustainability issues, including climate change risks, are among the key topics discussed in the Risk Council, with regular meetings held at least once a year. For risks deemed significant, the Environmental, Health, and Safety (EHS) Center, a dedicated environmental management organization, along with the Corporate Sustainability Management Office a supporting organization, manage these risks. Decisions and management strategies from the EHS Center and the Corporate Sustainability Management Office are reported to the ESG Committee. Response strategies and action plans are subsequently developed and approved.

| ESG Committee | Deliberation and approval of climate change risk response strategy and implementation direction, review of performance and activities. |
|---|---|
| Consideration and deliberation of issues | |
| EHS Center/ Corporate Sustainability Management Office | Establishment of climate change risk response strategies, manage- ment of implementation status, and reporting to management |
| Coordination of action plans and monitoring progress | ŕ |
| Risk Council | Identification and evaluation of climate change risks |

Climate Change Risk Review History

| Date | Agenda | Department in Charge |
|------------------|---|-----------------------------|
| October 24, 2022 | \cdot Management of data center energy use and carbon emissions | Data Center Innovation Team |
| January 31, 2023 | \cdot Climate change response and environmental management strategy | EHS Center |
| May 30, 2023 | · Supply Chain Carbon Emission Management Plan | Partner Collaboration Team |

Management Period



Climate Risk Types



Scope of Climate Risk Management



Climate Risk Identification and Evaluation Management Process

| Analysis of Climate Change Risks | Establishment of Response Strategies | Execution of Strategy | Performance Monitoring and Improvement |
|---|---|---|---|
| Risk definition Risk analysis Occurrence cycle Probability of occurrence Scope of impact | GHG reduction New technology development Transition to renewable energy Products and services | Improvement of data center facilities Purchase of renewable energy Participation in climate change initiatives | Monitoring of execution process Performance evaluation Development of improvement measures Establishment of the following year's execution plan |

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AI Ethics

AI Ethics Principles

Samsung SDS recognizes that when utilizing AI technology, it is important to consider not only human dignity and rights but also the environment and ecosystem. As a result, we have established an AI Ethics Charter based on UNESCO's Recommendation on the Ethics of Artificial Intelligence. We are committed to applying this Charter throughout the entire process of developing and utilizing AI technology.

| Based on the Samsung Spirit, our top priority |
|--|
| is to benefit humanity and society. We |
| respect and comply with international human |
| rights laws and values in general and also |
| in relation to AI technologies. Further, we |
| will work to limit any potentially harmful or |
| abusive application that can negatively affect |
| human beings and their rights as we develop |
| and deploy AI technologies. |

1. Respect for Human Rights

2. Diversity and Inclusion

We believe that everyone should be treated fairly and equitably. We understand that defining fairness is not always simple and differs across cultures and societies. We will seek to avoid biased results and unjust impact on sensitive characteristics such as race, ethnicity, gender, nationality, income, sexual orientation, ability, and political or religious belief. We also will seek to avoid exposing children to inappropriate content.

3. Data and Privacy Protection

We recognize the importance of protecting the privacy and security of people's data. To minimize privacy risks, we will continue to monitor data processing processes and develop safe and secure practices.

5. Communication

We will comply with relevant national and international regulations, standards and practices to assure that AI development and services do not adversely affect the sustainability of the environment and ecosystem.

4. Conservation of

Environmental Ecosystem

We believe in transparency and explainability. Al will be explainable for users to understand its decisions or recommendations to the extent technologically feasible and that this does not geopardize corporate competitiveness. Samsung SDS will also devise countermeasures against the risks and negative consequences that Al technology can cause to the users.

Al Council

Since April 2023, Samsung SDS has been operating a regular committee led by the Research Institute, in which each business unit and relevant department participate. This committee aims to facilitate discussions and collaboration regarding the activation of new business models integrating AI. It is conducted on a monthly basis.



SPECIAL SECTION

Insight Report: AI ethics and AI governance

A report is published to allow key stakeholders of the company, including customers and employees, to gain insights into Al ethics and governance. This report offers information regarding the concept of a trustworthy Al system, international standardization and technical trends, and the establishment of Al governance for corporate social responsibility.





신뢰할 수 있는 AI 시스템' 논의 배경

| (에도면 전용적 의사원전과 평가을 A 시스템이 내려야는 경기이 증가야간지 사업해제한 도구야간 온라기는을 A에도 적용할 | |
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| 는지께 대해서 사회적 관심과 논란이 증가하고 있습니다. 진문가 시스템과 같이 주문 과당에 대한 이해가 상대적으로 용이하면서 | |
| 9의 의사 결정과 병의를 부조하는 수단으로 활용되는 시대의 새 시스템은 주로 기업 내무에 사용되면서 성능과 활용 법의 확대에 | |
| I 초점이 맞춰져 있었습니다. | |
| 사람이란 : 아닌 아님, 는지, 지식 지난 집간법, 문제의 집간법 등을 통당해 제공되고, 인간이 참가한 뒤의을 위해 삼호 지금마이 주변한 것에 방향을 미지는 | |
| ·해주, 주신, 미사업일 등의 물러물을 생성할 수 있는 슈트트웨어 (AL H, 2012) | |
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| (2)시간은 통령의는 아이막한 실험 사직 전을 유고지급하 열만은 사람을 대해야 했던 소사가를 적고 하지만는 세우운 유사 승규가 적용을 가 사람들에 가 사람들이 가 다 가 다 가 다 가 다 가 다 가 다 가 다 다 가 다 다 가 다 다 가 다 다 가 다 다 다 가 다 | 하지만 빠른 정보 전달이 가능한 5G 같은 무선 통신장의 말달, 수지 계산 속도가 바닥치으로 통가한 GPU의 개선, 그리고 무엇보기 |
|---|--|
| 동리 국위들을 지속해받습니다. 반약, 4 시스럽에, NH실과 시원 변화, 가 초가하면서 당한인정에서 열렸던지 아시오 스타 발생인스 문제를 다가만했고, 다리 서 물화에 대한 불수도 대답과 유가하면입니다. 공항에도 유명해들 관조하는 시위에 분위기의 변화도 세기 특별 다 수 있는 편편 변화되니다. (1), 다리 관련 가 술순 인터라은 방법 법에 서시스템에 접착 책임을 유구하는 등 시위 여편되고 등당하였고, 우리시티도 당하여 | 달려났으로 통칭되는 비약적인 성능여 AI 학습 및 2리즘이 발전은 사람을 대체하여 일반 소비가를 직접 상대하는 새로운 AI 시스 |
| 안전, 시 사스템에 의사용상 위험은 위법도가 증가하면서 말만인해야지 정강하기 아이상 수의 형력적스 원제를 여기가였고, 약소 시 물통해 대한 봉산도 당당하 증가하면습니다. 공편하게 주면성을 경조하는 시쪽적 분위기의 번째도 사가 지원 같수 일본 환원 전력 당시기. [14] 피구 같은 제 기술 선민규는 현명 당시 ALA스템에 방의 책정을 유구하는 등 시원 이원이도 등중하였고, 우리사리도 당이기 | 동장개 확산을 가득하였습니다. |
| 시 철확에 대한 물신도 담았다 축가사업습니다. 공항성가 투양성을 경고적신 시작적 분위가의 변화도 A가 적적 할 수 있는 위전 변화합니다. EV, 이국 같은 A 가슴 선민국은 현말 알시A! 시스템에 발적 책임을 요구하는 등 사회 아련대로 등장하였고, 우리시작도 당이의 | 한편, 서 지스템의 의사공장 가장은 영습도가 증가하면서 일반인들에게 설명하기 어려운 소위 불역약스 문제를 여기하였고, 이료 |
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| | EU, 미국 같은 M 기술 선민국은 전달 알서 M 시스템에 벌찍 책임을 요구하는 등 사회 이팬더로 등장하였고, 우리나리도 뛰어거 |

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| | Sustainability Management | Strategy Framework | Sustainability Manageme | nt Implementation System | Strategy for Sustainable | Business (| Climate Change Response | Digital Responsibility |

Open Source

Open Source Policy

Samsung SDS is actively promoting various activities to foster the growth of the open-source community and developers based on the values of sharing and collaboration. We also operate an open-source policy to ensure appropriate usage and voluntary compliance with open-source practices. Through these efforts, we aim to prevent legal liabilities resulting from non-compliance with open-source licenses or indiscriminate usage and distribution. Additionally, we aim to contribute to value creation through the utilization of open-source technologies while respecting the rights of intellectual property owners.



Open Source Software Portal

In August 2022, Samsung SDS launched the Open Source Software Portal for employees to safely and efficiently use open source, providing various content. This portal offers guides for using open source and licenses, technical documents, and continually updates the standard open source and use cases.



SPECIAL SECTION

International Open Source Standard Certification

In July 2022, Samsung SDS became the first domestic IT service company to obtain the International Standard Certification (ISO/IEC 5230:2020) granted by the OpenChain Project.



This certification is awarded to companies that demonstrate compliance sys-

tems and capabilities in utilizing open-source licenses, initiated by the OpenChain Project led by the Linux Foundation in 2016. Samsung SDS has been recognized for our global competence in all aspects of opensource compliance, including the establishment of open-source utilization policies and processes, securing specialized personnel, and providing education to the company's members.

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Privacy

Customer Privacy Policy

Samsung SDS recognizes the importance of personal information and strives to utilize and protect personal information in accordance with relevant policies and regulations. We have designated a Chief Privacy Officer (CPO) separately from the Chief Information Security Officer (CISO) to actively address privacy issues and also operates the Personal Information Protection Council in which relevant departments participate. Furthermore, Samsung SDS prepares the policies in accordance with the Personal Data Protection Act and conduct inspections of the implementation status of personal information security policies.

| Policy | Legislation | Training and Communication | Audit |
|--|--|--|--|
| Establish operational standards and guidelines for privacy Develop processes in case of data leakage | Study and monitor constantly evolving trends and legal landscape around information security | Train employees who are responsible for personal information security, and trustees Providing personal | Regular audit on operation and application of data protection and privacy policy |
| | | information security letters and guides | Take immediate actions in case of necessity |



Dedicated Organization for the Protection of Personal Information



Personal Information Protection Council

| Chairman | Head of Legal Service Team (Secretary: Privacy Management Group Leader) |
|-------------|--|
| Composition | Legal Service Team, Compliance Team, People Team, Samsung Security Center, Business Innovation Team, Quality Strategy Team, Communication Team, Data Consolidation & Analytics Center, Marketing Team |
| Agenda | Privacy issues and Law amendments Privacy protection and data usage |
| Cycle | Regular meeting(quarterly) and Ad-hoc meeting (whenever issue occurs) |

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Privacy

Personal Information System

In August 2021, a Personal Information System (PIS) was established to manage the domestic and overseas legal application targets and the detailed inspection history of the personal information processing system. Regulations, legal information, news, content, and FAQs are provided through a documentation center.

Privacy Management Status

| Category | Unit | 2020 | 2021 | 2022 |
|--|------|------|------|------|
| Number of data breaches/incidents | Case | 0 | 0 | 0 |
| Number of complaints received via external agencies | Case | 0 | 0 | 0 |
| Number of complaints received via regulatory bodies | Case | 0 | 0 | 0 |
| Number of requests of user data and information from the government and law enforcement agencies | Time | 47 | 45 | 47 |
| Rate of submission of data/information requested | % | 100 | 100 | 100 |
| Number of cases of user information usages for secondary purposes | Unit | 0 | 0 | 0 |

ISMS-P Certification

Samsung SDS obtained the Information Security Management System Personal (ISMS-P) certification in March 2022, which is administered by the Ministry of Science and ICT and the Korea Internet & Security Agency(KISA) in collaboration with the Personal Information Protection Commission. This certification validates our high level of operation in managing information security and personal information protection systems. It demonstrates externally that appropriate protective measures are in place at each stage of personal information processing.



Certification scope: Samsung Cloud Platform, Cloud Service Certification period: From March 2nd, 2022 ~ March 1st, 2025

Global Personal Information Security

Samsung SDS systematically responds to the strengthening global regulations on personal information protection to ensure the smooth execution of expanding international business operations. Specifically, we recognize the key areas of compliance risk reduction, focusing on the personal information protection laws of the European Union (EU), the United States, Brazil, and China. It derives key response measures and diligently conducts compliance checks.

Guarantee Rights of the Data Subject

| · Right of access | · Rigł |
|---|--------|
| · Right of rectification(correction) | · Righ |
| · Right to erasure/delete(be forgotten) | · Rigł |
| · Right to be informed | · Rigł |
| · Right to restrict processing | info |
| · Right to data portability | |
| | |

- Right to object
- Rights related to automated decision making and profiling
- · Right to opt out of targeted advertising, sale or sharing
- Right to limit use and disclosure of sensitive personal information

Establish a Response Plan in Case of a Breach of Personal Information

Action Plans

- · Notify and ensure the rights related to privacy through the Privacy Policy
- · Establish the process of receiving and responding to requests related to processing from data subjects
- · Implement measures for protection and minimize the collection of personal information
- \cdot Monitor administrator accounts and access rights
- · Define types of privacy violations and establish counteracting plans
- Report to the relevant authorities within the period stipulated by local law upon recognizing a personal information infringement incident
- Comply with procedures stipulated by local law in case of personal information transfer to overseas only through appropriate certification, use of EU standard contracts, and consent from the data subject, etc.

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| $\triangle \equiv \bigcirc \downarrow \textcircled{a} 44$ | | | Environn |

ESG PERFORMANCE

nent

ESG Performance

Social

ENVIRONMENT

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ENVIRONMENT

Governments and corporations around the world are actively addressing the increasingly urgent issue of climate change. The push for a transition to a low-carbon economy is gaining momentum, leading many businesses to adopt eco-friendly systems and sustainable practices. Samsung SDS is at the forefront of climate change response, committed to achieving carbon neutrality, increasing the adoption of renewable energy, and prioritizing the construction of energy-efficient and eco-friendly data centers.

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| ☆ ≡ c ↓ ቆ <u>46</u> | | | Enviro | onment Social | Governance |

Environmental Management System

Environmental Governance

The responsibility for environmental and climate crisis response at Samsung SDS starts with the top executives. Together with the CEO, who serves as the Chairman of the Board of Directors, the Board performs governance and oversight of climate change strategy, operations, and management. Samsung SDS' executives oversee the company's comprehensive environmental management through the EHS Committee and the Environmental Management Working Group. In December 2022, Samsung SDS established the Environment Group within the EHS Center, a dedicated organization for environmental management, to oversee the company-wide environmental responsibilities and establish governance. The Environment Group of the EHS Center is responsible for devising and implementing environmental strategies, managing data, and fostering internal and external communication channels.



Environment and Energy Management Policy

Samsung SDS considers the establishment of safe and healthy workplaces, as well as environmentally friendly management, as top priorities. We strive to enhance the quality of life and preserve the environment through corporate activities that respect both people and nature in our products, services, and business areas, both domestically and internationally. By committing to environmental management, Samsung SDS ensures compliance with laws and regulations and promotes environmental stewardship throughout the entire process, including our suppliers.

| Environment and Energy Management Policy 🔗 | | | | | | | | | | | |
|--|---|--|--|------------------------------------|------------------------------|--|--|--|--|--|--|
| Compliance with environmental and energy laws and international agreements | O Global Environmental Leadership | Response to Climate Crisis and Carbon Neutrality | • Environment and Energy Management | LCA Environmental Management | 6 Active communication | | | | | | |

Environmental Management System Certification

Samsung SDS holds and operates environmental management system certifications (ISO 14001) for all domestic and global business sites, led by the company-wide environmental organization. We oversee processes such as goal management, education and training, document and record management, and internal audits, as well as internal standards for each division. Furthermore, in 2023, not only the environmental management system but also the energy management system (ISO 50001) is being developed, with preparations underway to obtain certification in the second half of the year.



SPECIAL SECTION

2023 Asia-Pacific Climate Leader

Samsung SDS has been recognized as one of the '2023 Asia-Pacific Climate Leaders' by the Financial Times. The Asia-Pacific Climate Leaders program, organized by the Financial Times, focuses on more than 1,500 companies headquartered in the Asia-Pacific region with annual revenue exceeding \$50 million. The selection process takes into account criteria such as GHG emissions and Scope 3 emissions relative to revenue over a five-year period, disclosure of emissions data, and the Carbon Disclosure Project (CDP) evaluation rating. In 2023, a total of 275 companies from 14 countries, including 16 companies from South Korea, were honored as climate leaders in the Business & Professional Services sector. Samsung SDS is the sole South Korean company to be selected in this category.

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| ☆ ≡ ¢↓ ♣ <u>47</u> | | | | Environment | Social | Governance | |

GHG Emissions Management

GHG Emissions of the Entire Value Chain

Samsung SDS manages GHG emissions for each of our business site by Scope. In 2022, significant progress was made in enhancing the calculation and management of Scope 3 emissions, expanding the scope to include energy sources beyond Scopes 1 and 2, as well as upstream leased assets(③ and ⑧).



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GHG Emissions Reduction by Data Center

Samsung SDS is actively committed to minimizing GHG emissions from our business sites through a series of environmentally conscious investments.

| Category | Reduction Activities | Unit | 2022 |
|-------------|---|---------------------|------|
| | Control of the number of thermo-hygrostats through temperature-humidity sensors | tCO ₂ eq | 154 |
| | Extension of the operation period of spray pumps in cooling towers | tCO ₂ eq | 134 |
| Suwon | Partial shutdown of air-cooled thermo-hygrostats | tCO ₂ eq | 93 |
| Data Center | Efficient operation of server room humidifiers | tCO ₂ eq | 25 |
| | Replacement of highly efficient PAC in the subroom | tCO ₂ eq | 6 |
| | Installation of solar power generation facilities | tCO ₂ eq | 19 |
| | Subtotal | tCO ₂ eq | 431 |
| | Adjustment of the cooling set temperature | tCO ₂ eq | 19 |
| Sangam | Control of the No. of operating cooling towers | tCO ₂ eq | 11 |
| Data Center | Installation of pump inverters | tCO ₂ eq | 306 |
| | Subtotal | tCO ₂ eq | 336 |
| | Expansion of direct free cooling introduction period | tCO ₂ eq | 19 |
| Chuncheon | Installation of outdoor chiller awning screens | tCO ₂ eq | 17 |
| Data Center | Outdoor chiller condenser coil spraying | tCO ₂ eq | 7 |
| | Subtotal | tCO ₂ eq | 43 |
| Gumi | Electric boiler | tCO ₂ eq | 45 |
| Data Center | Subtotal | tCO ₂ eq | 45 |
| Total | | tCO₂eq | 855 |

Data Center Energy Efficiency

Data Center Certifications

Green Data Center Certification for Chuncheon Data Center

In April 2022, the Chuncheon Data Center received a score of 99.05, the highest evaluation score in the Green Data Center certification assessment, and became the third facility in South Korea to achieve Platinum grade certification. We established a data center in Chuncheon, which has the lowest average temperature, and implemented direct free cooling to maximize the use of outside air. In addition, we designed and manufactured a Building Integrated Cooling System(DIF: Direct-air Integrated Fan-wall system), which received top marks for infrastructure efficiency.



Uptime Institute M&O Stamp for Sangam Data Center

The Sangam Data Center was assessed for its infrastructure and operational management system through the Data Center Risk Assessment (DCRA) diagnosis conducted by the Uptime Institute. It received the Management & Operations Stamp, marking the first time a Korean center achieved this recognition for its outstanding infrastructure stability, backup system configuration, and global-level operational management system.



Data Center Certifications and PUE

| Site | Certification | Emissions(tCO ₂ eq) | PUE |
|-----------------------|--|--------------------------------|------|
| Suwon Data Center | Uptime Institute Tier 3 (first in South Korea) | 50,431 | 1.56 |
| Sangam Data Center | Acquired Uptime Institute's M&O Stamp (first in South Korea) | 29,436 | 1.37 |
| Chuncheon Data Center | Green Data Center Certification(Platinum, highest ever) | 13,621 | 1.27 |

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Energy Efficiency for Data Centers

Green Technology for Data Centers

Free Cooling Operation

To cool the server rooms in the data center, we actively utilize cold outside air to minimize the operation of chillers. In the Sangam data center, we have implemented Water-Side Economizer(WSE) using cooling towers and Air-Side Economizer(ASE) using heat pipes. During the operation of the two types of indirect free cooling, the Sangam Data Center has achieved an average improvement of 0.05 in Power Usage Effectiveness(PUE). Furthermore, the Chuncheon Data Center is equipped with a direct free cooling system, which introduces cold outside air directly into the server room. This direct free cooling system does not involve intermediate heat exchange processes, resulting in an excellent PUE of 1.16 and the ability to operate for more than 7 months throughout the year.

Green Investments for Data Centers

| Category | Item | Investment Amount |
|-----------------------------------|--|-------------------|
| Suwon Data Center | Installation of solar power generation facilities | KRW 344 million |
| Sangam Data Center | Installation of inverters | KRW 200 million |
| Dongtan Data Center ¹⁾ | Inclusive of the fan wall(Variable air volume fan) | KRW 39.2 billion |

1) Investments for the Dongtan Data Center spanning from 2021 to 2022





Thermo-hygrostats Optimization with Air-conditioning Simulation

Through computational fluid dynamics (CFD) based data center air-conditioning simulation, the flow and temperature distribution within the server room are analyzed. The appropriate supply air temperature and airflow of the air-conditioning system are determined. By controlling the operation rate of the air conditioning system based on the cooling load of each server room, the power consumption is minimized.



Expansion of Chilled Water Pump Inverter at Sangam Data Center

The Sangam Data Center has implemented an inverter to modulate the utilization rate of the chilled water pump based on the cooling load, resulting in a reduction of emissions by 306 tons annually through the controlled operation of the chilled water pump. Older facilities at the Suwon Data Center are being updated in 2023, thereby expanding the application of these high-efficiency installations.

Data Center Efficiency

| | Unit | 2019 | 2020 | 2021 | 2022 | Target |
|---------------|------|------|------|------|------|--------|
| Average PUE | - | 1.57 | 1.54 | 1.50 | 1.47 | 1.48 |
| Data Coverage | % | 100 | 100 | 100 | 100 | - |

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| $ \uparrow \equiv C \downarrow \triangleq 50 $ | | | | Environment | Social | Governance | |

Production and Utilization of Renewable Energy

Samsung SDS has been expanding the use of renewable energy by installing solar power generation and solar water heating systems on idle sites such as rooftops and parking lots. Furthermore, we are developing and implementing plans to purchase renewable energy domestically and internationally.

Renewable Energy Production

Data centers are equipped with solar water heating systems, solar power generation, geothermal cooling/heating systems, and geothermal heat pumps. There are plans to continuously increase the production of renewable energy in the future.

Renewable Energy Production

| Category | Unit | Туре | 2022 |
|-----------------------|------|----------------------------|--------|
| Sumon Data Contor | MWh | Solar water heating energy | 85.84 |
| Suwon Data Center | MWh | Photovoltaic solar energy | 19.11 |
| Sangam Data Center | MWh | Photovoltaic solar energy | 56.73 |
| Chuncheon Data Center | MWh | Photovoltaic solar energy | 144.63 |
| Total | MWh | | 306.31 |

Solar Power Generation Facilities at Suwon Data Center

With the construction of a solar power generation facility on top of the outdoor power distribution room at the Suwon Data Center, an estimated 64 MWh of renewable energy can be generated annually. This setup has reduced the summer operating temperature of the outdoor power distribution room by 10-20°C, thereby reducing emissions by 48 tons annually and improving the lifespan of electrical equipment.



Existing outdoor power distribution room



Outdoor power distribution room after installing solar power generation facilities

Utilization of Renewable Energy

Renewable Energy Consumption for HQ

| Category | Unit | 2019 | 2020 | 2021 | 2022 | Target |
|--|------|---------|---------|---------|---------|--------|
| Non-renewable energy consumption | MWh | 198,988 | 196,867 | 217,007 | 249,692 | - |
| Renewable energy consumption | MWh | 184 | 239 | 245 | 306 | 300 |
| Total energy consumption | MWh | 199,172 | 197,106 | 217,252 | 249,998 | - |
| Renewable energy production | MWh | 184 | 239 | 245 | 306 | - |
| Renewable energy use ratio at data centers | % | 0.08 | 0.12 | 0.11 | 0.12 | - |







Suwon DC Solar Water Heating System

Sangam DC Photovoltaic Power Generation Chuncheon DC Photovoltaic Power Generation

Transition to Renewable Energy

Samsung SDS is promoting the transition to renewable energy both domestically and internationally. In the short term, there are plans to transition to renewable energy sources, taking into consideration the renewable energy volume, unit price(economic feasibility), and factors such as Green Premium³ and Renewable Energy Certificates(REC²). In the medium to long term, we will accelerate the transition to renewable energy through Power Purchase Agreement(PPA³) contracts and participation in equity investments⁴) through partnerships with external entities.

1) Green Premium: A system by KEPCO to purchase renewable energy by paying a premium on existing electricity bills.

- 2) REC(Renewable Energy Certificates): A program by the Korea Energy Agency (KEA) to purchase renewable energy certificates (indirect purchase system).
- 3) PPA(Power Purchase Agreement): A system for direct purchasing/contracting of renewable energy between a power generator and a company (long-term transaction contract).
- 4) Equity investment: Procurement of renewable energy through a separate contract after investing a certain amount of equity in a renewable energy generation business.

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Waste Management

Samsung SDS is dedicated to the development of a systematic approach to waste management. In particular, in 2023, we are promoting the 5R campaign for waste management, making efforts to recycle waste but also to reduce the overall waste generation at its source. We have established a waste management system for each business site to monitor the waste generation status on a quarterly basis. Under the supervision of the company-wide environmental department and business unit, we are actively conducting campaigns by generating various ideas that employees can actively participate.

Waste Management System

| Designation of Target Business Sites | For all SDS business sites * Subject to legal management: 4 data centers (Suwon/Sangam/Chuncheon/Gumi), West Campus, East Campus, Seoul R&D Campus, Pangyo IT Campus, Pangyo Logistics Campus, Giheung Terra Tower |
|--|--|
| Definition of Waste Scope | · Waste from business sites, designated waste, recyclable waste |
| Establishment of Waste Calculation System | Waste from business site: Pay-as-you-go bags Designated waste: Allbaro system data Recycled waste: Root value |
| Management of Waste Recycling/Landfill/ Incineration Rates (ESG evaluation items) | Establishment of waste status management standards for each business site Consultations with waste certification organizations, along with external consultation and verification Establishment of Zero Landfill Waste certification criteria, with a goal to obtain certification by 2024 |

Promotion of the Waste 5R Campaign

Samsung SDS conducts quarterly assessments of waste generation by business sites and categorizes waste that falls within the scope of the 5R strategy. In addition, from the second half of 2023, we will implement a reduction target management system using the 5R campaign.

| REDUCE | RECYCLE | RECYCLE REUSE | | ROT |
|----------------|-----------------|---------------|---|------------------------------------|
| Reducing waste | Recycling waste | Reusing waste | Utilizing items destined for disposal | Using biodegradable products |

Waste Generation

| Catagony | Unit | 2010 | 2020 | 2021 | 202 | Target | |
|---|------|-------|-------|------|-------|----------------------|--------|
| Category | Unit | 2019 | 2020 | 2021 | HQ | Global ²⁾ | Target |
| Total waste generation | Ton | 1,300 | 1,575 | 953 | 496.7 | 2,183.8 | 2,200 |
| Total waste recycled/reused | Ton | 0 | 0 | 361 | 113.4 | 897.2 | 900 |
| Total waste disposed | Ton | 1,300 | 1,575 | 592 | 383.3 | 1,286.6 | 1,300 |
| Landfilled waste | Ton | 1,295 | 1,568 | 576 | 371.2 | 1019.4 | - |
| Incinerated waste with energy recovery | Ton | 0 | 0 | 0 | 0.7 | 3.8 | - |
| Incinerated waste without energy recovery | Ton | 0 | 0 | 15 | 11.4 | 11.4 | - |
| Waste otherwise disposed | Ton | 5 | 7 | 1 | 0 | 252 | - |
| Waste with unknown disposal method | Ton | 0 | 0 | 0 | 0 | 0 | - |

 Starting from 2022, data from subsidiaries and overseas subsidiaries have been included. Since they do not fall under the category of business waste emitters based on emission criteria, the recycling/disposal information is not accurately known. Therefore, a conservative estimation has been made.

2) Global: headquarters, overseas subsidiaries, and domestic subsidiaries.

Waste Disposed for HQ

| Category | | Unit | 2022 |
|------------------|-------------------|------|-------|
| | Landfilled waste | Ton | 371.2 |
| General waste | Incinerated waste | Ton | 11.4 |
| | Recycled waste | Ton | 95.3 |
| Designated waste | Incinerated waste | Ton | 0.7 |
| Designated waste | Recycled waste | Ton | 18.2 |
| Total | | Ton | 496.7 |

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Water Resource Management

Samsung SDS regularly monitors the monthly water consumption by comparing the water volume with the previous year's corresponding month or the previous month, as indicated on the water utility bills. We analyze the reasons for any changes in water usage and establish management strategies accordingly. Furthermore, we conduct regular cleaning and disinfection of water tanks and manage the water quality through periodic water quality inspections.

Water Consumption Reduction Activities

Samsung SDS reduces water consumption by diversifying cooling methods when designing data centers. (Consumption : Suwon DC, Sangam DC, Chuncheon DC in order) Sangam Data Center utilizes local water for effective cooling with less water consumption; local cold water(12°C) is about 5°C lower than general water(17 to 18°C). Sangam Data Center uses outdoor cooling method to reduce water consumption.

Water Consumption

| Category | | Unit | 2019 | 2020 | 2021 | 2022 |
|--|-------------------|------|---------|---------|---------|-----------|
| Water intoko | Waterworks | Ton | 254,365 | 326,406 | 323,461 | 401,701 |
| water-intake | Underground water | Ton | 161,964 | 162,868 | 167,784 | 164,997 |
| Discharge | Underground water | Ton | 161,964 | 162,868 | 167,784 | 164,997 |
| Total water consumption(HQ ¹⁾) | | Ton | 254,365 | 326,406 | 323,461 | 401,701 |
| Total water consumption(global ¹⁾) | | Ton | - | - | - | 3,073,927 |

 Starting 2022, additional sites have been included for environmental disclosure beyond the initial six, encompassing Dongtan Data Center, Pangyo IT Campus, Pangyo Logistics Campus, Seoul R&D Campus, and Giheung Terra Tower

2) Global: Headquarters, overseas subsidiaries, and domestic subsidiaries

Eco-friendly Activities

| Paperless Campaign | Reducing toner usage for multifunction devices through in-house paperless campaign(41.8% reduction compared to the previous figure) Minimizing the use of paper through electronic voting and online observation of general shareholders' meetings and general meetings of employee stock ownership association |
|--|--|
| Installation of Eco Umbrella Dryer | \cdot Minimizing the generation of plastic wastes by installing umbrella rainwater removers instead of providing plastic bags for umbrella |
| Installation of HiSAVER, Automatic Light-off at Lunchtime and at Night | \cdot Minimizing power consumption by shutting off unnecessary power at all times |
| Encourage Bicycle Commuting | \cdot Installing bicycle storage and shower facilities for employees commuting by bicycle |

New Activities in 2022

| Collection of Discarded Mobile Phones and Batteries | \cdot Hosting donation events and prize events for donors of discarded mobile phones and batteries |
|--|--|
| Participation in Earth Hour Event | \cdot Improving energy efficiency and raising employees' environmental awareness through participation in the Earth Hour Event |
| Installation of Electric Vehicle Chargers | · Expansion of electric vehicle charging facilities (Suwon 7, Chuncheon 3, Gumi 4, Dongtan 4) |



Gumi Electric Vehicle Charging Station

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SOCIAL

Enhancing the sustainability of the entire supply chain is increasingly critical for the sustainable growth of businesses. Similarly, the need for coexistence with various stakeholders such as employees, customers, suppliers, and local communities is becoming paramount. In response, Samsung SDS prioritizes supply chain ESG management, investment, and capacity development of employees, and works towards creating a safe working environment.

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Human Rights

Human Rights Management

As a global leading IT service provider, Samsung SDS has established human rights management system for employees to work in non-discriminatory work environment and to respond international demands on human rights protection. Samsung SDS is deeply committed to respecting human rights under the United Nations' International Bill of Human Rights and the International Labor Organization's Core Conventions set out in ILO's Declaration on Fundamental Principles and Rights at Work. Samsung SDS also abides by the Code of Conduct of the Responsible Business Alliance(RBA) and comply with the laws and regulations of the countries where Samsung SDS conducts business.

Human Rights Policy

Samsung SDS has prepared and implemented 11 human rights policies to protect the human rights of our employees. Human rights policies protect the human rights and dignity of employees at a level befitting a worldclass company. This policy applies to all types of employees, including temporary employees, migrant employees, trainees, and dispatched employees. Employees must be guaranteed that all demands they are subject to in the workplace are legal, and that their rights are protected in accordance with the laws and regulations. Suppliers also continue to carry out activities such as assessment and monitoring to prevent human rights violations.



Declaration of Human Rights

Samsung SDS will support and comply with the human rights principles set forth in the 'Universal Declaration of Human Rights' and the 'UN Guiding Principles on Business and Human Rights' of the UN Human Rights Committee. In order to comply with human rights management, we will establish an internal system for human rights management in accordance with this Human Rights Management Statement, and collect and process opinions from stakeholders related to human rights management.

Focus Areas of Human Rights Management



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Human Rights

Human Rights Management

Human Rights Training

Samsung SDS conducts human rights education for all employees every year to promote understanding of diversity and foster a healthy organizational culture.



Q3

Training for preventing workplace harassment, training for mental health

Human Rights Risk Management Process

| Human Rights Risk Asse | ssment |
|----------------------------------|---|
| Developing assessment indicators | Reflect principles in Charter on Human Rights and other international initiatives Develop indicators for human rights risk assessment, concerning matters such as working conditions |
| Selecting assessment targets | Select organizations subject to Charter on Human Rights Provide assessment indicators and guidelines to assessment targets |
| Inspection | Conduct self-diagnosis by organization subject to assessment Establish self-improvement plans to address shortcomings |
| On-site due diligence | \cdot Conduct interviews and on-site inspections to check internal regulations, systems, and risks in detail |
| 3rd party verification | \cdot Conduct separate assessments by third parties, if necessary, to guarantee objectivity of assessment and on-site due diligence |
| Improvement plans | Establish and implement plans for improvement concerning 'high-risk' and 'non-con- formity' issues identified through due diligence |
| Human Rights Managen | nent Improvements |
| Monitoring implementation status | Monitor whether improvement measures drawn up based on mutual consent continue to be properly implemented and taking appropriate corrective actions if necessary |
| Deriving improvement measures | Specific plans for improvement concerning the risks identified through human rights risk assessment |
| Regular Reporting and D | Disclosure on Management Status |
| Reporting to decision makers | Reporting severe risks, improvement plans and implications identified through assess- ment to the target organization's management committee and business meeting |
| Disclosure | Disclosing cases of human rights violations, risk assessment results and measures to be taken for risk reduction and mitigation, on the company's website or in its sustainability report |

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Employee Diversity Policy

Samsung SDS respects the diversity of all our members, including those in the headquarters, subsidiaries, and overseas subsidiaries and does not discriminate against employees based on gender, race, nationality, religion, age, or disability.

Proportion of Female Employees

The proportion of female employees at Samsung SDS increased from 29.2% in 2021 to 30.6% in 2022, while the percentage of female managers saw an increase from 22.4% in 2021 to 24.2% in 2022.

Female Employee Status

| Category | | Unit | 2020 | 2021 | 2022 |
|---|---|------|------|------|------|
| | Ratio of female employees | % | 28.4 | 29.2 | 30.6 |
| Ratio of fer Employment Ratio of fer | Ratio of female junior managers ¹⁾ | % | 39.3 | 40.1 | 40.2 |
| | Ratio of female managers | % | 20.9 | 22.4 | 24.2 |
| Status | Ratio of female executives | % | 11.1 | 11.8 | 8.1 |
| | Ratio of female employees in STEM | % | 22.7 | 22.5 | 22.8 |
| | Ratio of female managers in charge of sales/revenue | % | 21.2 | 20.9 | 24.6 |

1) As per the internal grading system, junior manager corresponds to CL2, while manager is classified as CL3 and CL4.

Anti-discrimination Training for Overseas Local Employees

Samsung SDS provides global etiquette and local behavior guidelines training for newly assigned resident representatives to ensure that overseas dispatched employees can work harmoniously with local employees. In addition, each overseas subsidiary conducts training on human rights protection and cross-cultural understanding for local staff.

Exceeding the Mandatory Employment Rate for the Disabled

Samsung SDS fulfills our corporate social responsibilities by meeting the mandatory employment rate for the disabled and promotes employee diversity. Samsung SDS strives to improve the working environment for people with disabilities by providing all employees trainings to improve their awareness on disabilities. Further, professional counselors for people with disabilities were hired and trained. In 2022, the ratio of employees with disabilities has reached 3.62%¹, 0.52%p higher than the legal mandatory rate of people with disabilities employment(3.1%).

Operation of Openhands, Inclusive Workplace for People with Disabilities

In November 2010, Samsung SDS founded Openhands, Inclusive Workplace for People with Disabilities as designated by the Korean government, as a subsidiary with the aim of fulfilling our corporate social responsibility and creating good jobs for people with disabilities. In January 2017, the company moved its headquarter and consolidated office spaces to provide a better work environment and improve convenience for its employees with disabilities at restrooms, parking spaces, elevators, and cafeteria services. These endeavors were recognized when Openhands was chosen as an excellent employer of people with disabilities in 2018 and received the Iron Tower Order of Industrial Service Merit at the Expanded Recruitment of the Disabled Competition in 2020, and an award from the Ministry of Employment and Labor at the Expanded Recruitment of the Disabled Competition in 2021. Utilizing the customized trainings provided by Korea Employment Agency for Persons with Disabilities, Openhands has provided education for those with disabilities and continues its contribution in hiring people with disabilities.

| Selected as an Excellent Employer for Employment of People with Disabilities in 2018 | Received the Iron Tower Order of Industrial Service Merit in the business owner category at the 2020 Employment Promotion for People with Disabilities | Received Minister's Award in the worker category by the Ministry of Employment and Labor in 2021 |
|--|--|--|
|--|--|--|

Employment Rate for the Disabled

| Category | Unit | 2020 | 2021 | 2022 |
|-------------------|--------|------|------|------|
| No. of employment | Person | 413 | 407 | 429 |
| Employment rate | % | 3.27 | 3.31 | 3.62 |

1) The employment rate calculation criteria under the 'Act on the Employment Promotion And Vocational Rehabilitation Of Persons With Disabilities'

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Recruitment

Talent Profile and Recruitment Process

Samsung SDS does not discriminate on the basis of education, gender, nationality, or religion, and selects talented individuals who challenge the future with relentless passion, change the world with creativity and innovation, and fulfill their roles and responsibilities with honesty and good behavior. Samsung SDS provides equal opportunities to all those who wish to join us and operates a fair and transparent recruitment process to secure excellent talents in various fields. New employees are recruited through open recruitment in the first and second half of the year, and experienced employees are recruited from time to time according to the needs of each job or business division. Starting in 2021, we're introducing metaverse counseling into our recruiting for both new and experienced employees, allowing us to engage with people on and offline.

Securing Outstanding IT Talents

Samsung SDS is striving to secure global talent to lead digital transformation in various industries such as manufacturing, logistics, finance, healthcare, and EPC based on IT technologies such as cloud, security, AI, and data analytics. We are strengthening our technical and business capabilities by recruiting experts and doctoral-level talents from global leading companies, while building networks and presenting career visions to attract top talent.

Recruitment of Master's or Doctoral Degree Graduates

Samsung SDS holds campus recruitment twice a year at domestic and overseas graduate schools that have competitiveness in major business fields such as cloud, solutions, and logistics to recruit excellent master's and doctoral talents. In particular, in the second half of 2022, we conducted offline recruitment activities that were difficult to conduct after COVID-19, and developed and operated a recruitment chatbot so that master's and doctoral researchers can easily receive recruitment counseling at any time.

Special Lecture on Algorithms for Undergraduates

Since 2018, Samsung SDS has been conducting the Special Lecture on Algorithms twice a year during the summer and winter breaks for undergraduate students and graduates who aspire to become IT professionals. The lecturers, comprised of employees, provide in-depth training and practical exercises on algorithms to improve students' understanding and competency levels in algorithms and programming, while also using the program as a channel to discover outstanding new talents for Samsung SDS.

Talent and Experts

Academic Training Programs

Samsung SDS selects and supports the outstanding talents through the programs such as Samsung MBA, Samsung EMBA, and IT Master's degree, aiming to cultivate professionals who possess both theoretical knowledge and practical skills to lead our future.



SDS Certified Professional (SCP) Program

SDS implements the SCP program to acknowledge exceptional employees with premier technical skills and expertise, propose a growth vision to technical employees, and cultivate an organizational culture where experts receive preferential treatment. Initiated in 2003, the program selects 1% of the company's technical staff, providing them with differential treatment that makes them feel valued as top experts within the organization. SCPs lead technology dissemination activities by establishing research groups centered on their fields of expertise and contribute to the enhancement of skills through generous technical advice provided through internal mentor-mentee programs. Additionally, they guide technical reviews across our businesses to boost competitiveness.

Samsung Regional Specialist

Samsung SDS sends talents to strategic countries such as Vietnam, China and India to develop businesses in global markets and foster employees' talents. Regional Specialists should experience, analyze, and report on local culture , market trends, and data collection for benchmarking.

* No staff was sent in 2022 due to the COVID Pandemic

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Competency

Cultivating Cloud Experts

To strengthen the competitiveness of our cloud business, Samsung SDS has established a cloud workforce training system and is focusing on fostering specialized personnel. Starting with online basic training for all employees, we have organized and operated SDS self-training and vendor-specific training to strengthen the ability to utilize public clouds.

SW Development Competency Support System

Samsung SDS operates a SW competency test system to diagnose the algorithmic and coding competencies required for SW development. We provide step-by-step training for developers to diagnose and improve their level of competency, and award promotion points and incentives for acquiring higher-level certifications. In addition, we are continuously strengthening SW competency by establishing Architect certification and Code Reviewer training courses.

Participation Rate in Employee Development Programs

| Category | Unit | 2022 |
|--------------------------------|------|------|
| Cultivating cloud experts | % | 37.2 |
| Software qualification program | % | 21.0 |

Cultivate Hands-on Global Talent

To foster global talent, Samsung SDS provides a variety of customized training programs to help employees perform their jobs in a practical way. We offer lecture-style online language courses, conversation-based 1:1 English coaching over the phone, AI tutoring courses, and practical courses for employees working overseas.

Leadership Training

Samsung SDS continues to provide special training for organization leaders to help them recognize the importance of organizational management and strengthen their leadership abilities. Regular training is also available to compensate for deficiencies detected through individual organizational management competency diagnoses. Moreover, newsletters are regularly published to enhance the leadership of employees.

Employee Capability Development Portal

Samsung SDS operates more than 600 collective and online curriculums based on competencies for each job. Employees use the in-house competency development portal My ProWay to freely apply for and take courses necessary for developing job competency.

Employee Training Status

| Category | | Unit | 2020 | 2021 | 2022 ¹⁾ |
|--------------------------|------------------------------|-------------|---------|---------|---------------------------|
| Average train | ing hours per employee | Hour | 55.4 | 63.6 | 75.7 |
| Average amo | unt spent per employee | million KRW | 2.3 | 1.6 | 1.3 |
| Total number training | of employees participated in | Person | 12,621 | 12,644 | 23,413 |
| | Total | Hour | 699,557 | 804,034 | 1,773,458 |
| Training | Male | Hour | 500,796 | 584,853 | 1,242,568 |
| nouro | Female | Hour | 198,761 | 219,181 | 530,890 |

1) Include subsidiaries and overseas subsidiaries data starting in 2022

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Competency

Certification Support System

We provide support for examination fees for approximately 500 qualifications related to job functions. For some qualifications strategically important at the company-wide level, additional points are given during promotions. The list of supported qualifications is continuously updated through regular reviews.

Data Scientist Certification

Samsung SDS developed and operates Data Scientist(DS) Certification Program to cultivate Data Scientist systematically. Various contents and training courses are provided through DS Academy, the in-house DS training center.

Appraisal

Employee Performance Appraisal

Samsung SDS conducts biannual employee performance appraisals. At the beginning of the year, the evaluator and appraisee engage in discussions to collaboratively set work goals that align with the individual's job characteristics. To ensure the objectivity and fairness of the appraisal, the guideline is to set the work goals as measurable as possible. If there are changes in the job responsibilities or department of appraisee, the work goals can be modified throughout the year. The evaluator conducts regular pre-interview and appraisal interview before and after the appraisal period to motivate appraisee to meet the appraisal objectives and to assist in resolving professional concerns and building capacity. If the appraisee has any objections to the appraisal results, the appraisal review committee may conduct deliberations and adjust the appraisal rating. Samsung SDS remunerates employees differently based on the results of individual job performance to enhance their work efficiency.

| Category | Unit | 2020 | 2021 | 2022 |
|--------------------------------|--------|--------|--------|--------|
| Ratio of performance appraisal | % | 100 | 100 | 100 |
| No. of employees participated | Person | 23,740 | 24,779 | 26,236 |

Peer Review

To foster collaboration among colleagues and support the strengthening of competencies from various perspectives, Samsung SDS will commence biannual peer reviews in May and October of 2023, prior to the mid-term and comprehensive evaluations. The contents of the peer reviews are anonymously delivered to department heads and reflected in employee evaluations.

Identifying Collaborators

Collaborators are registered and checked per work goal. Collaborators are not assigned for tasks executed individually.

Selection of Reviewers

3-7 reviewers are chosenReviewamong coworkers for each task.provideAdditional reviewers can beand areadded at the departmentreviewerhead's discretion.A peer

Conducting a Peer Review

Reviewers select keywords and provide feedback on strengths and areas of improvement in the reviewed coworker's workflow. A peer review can be excluded if the reviewer determines it's not pertinent to his/her work.

SPECIAL SECTION

Open Learn Seminar

Employees are provided with information and insights on business and IT technologies through weekly open-learn seminars in which all employees are welcome to participate. The open-learn seminars, which cover the business status of Samsung SDS and global companies, as well as the latest technological know-how such as cloud and AI, are conducted by the heads of departments in charge of the business and internal and external technical experts.



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Organizational Culture

Horizontal and Mutually Respectful Organizational Culture

To promote an organizational culture of mutual respect and horizontal communication among employees, Samsung SDS has ceased to display job titles and numbers in our internal system and refrain from announcing promotions from 2022 onwards. Subsequently, we are conducting activities to create a culture of mutual respect and consideration among employees, including the use of respectful titles such as "Pro" and "Mr/Ms", the use of respectful language, guidelines for titles in global business communication, and campaigns themed around praise and appreciation.

Smart Work Culture

To foster an efficient work culture, Samsung SDS persistently conducts various activities such as generating reports and distributing guidelines for practicing meeting culture, implementing mobile etiquette campaigns for meetings, and conducting prodigy training and departmental workshops for work immersion.

Internal Competition System

To offer employees career development opportunities to transition into their desired fields and to secure human resources for our strategic projects, Samsung SDS routinely conducts internal recruitment programs.

Flexible Working Hours

In order to foster a creative organizational culture, Samsung SDS has been operating Flexible Working Hours since 2011 allowing employees to autonomously decide commuting to and from work. Since 2018, Flextime were adapted for employees to flexibly adjust daily working hours, improving work efficiency and employee satisfaction with the working environment.

Welfare and Benefits

To motivate employees and boost their morale, Samsung SDS offers a wide-ranging welfare & benefit programs and convenient facilities under such diverse themes such as housing support, healthcare, and leisure activities.

| Tuition for children | \cdot Tuition support for children attending preschool, middle/high school, and university |
|---------------------------|---|
| Welfare benefits | · Welfare point provided and can be used as of the needs of employees |
| Support for family events | Offer expenditure support and day offs for family events involving themselves and the immediate family members Offer supplies and personnel services for family events |
| Medical support | Medical expense support for employees, their spouses and children Comprehensive medical check-up for employees and their spouses, medical expense support for fertility treatment In-house clinics(i.e., flu vaccination) |
| Convenient facilities | · Cafeterias, daycare centers, fitness centers, health care centers, Dodami room for pregnant women, etc. |





Dodami room(Breast-feeding/lactation facilities)

Daycare centers

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Organizational Culture

Improvement of the Working Environment for Caregivers

A personnel system is in place to support employees' childbirth and childcare needs, facilitating a balance between work and family life.

Parental Leave

Employees with children under the age of 12 can take up to 24 months of parental leave in two installments, regardless of gender.

Infertility Leave

An infertility leave system is in operation for employees facing challenges in balancing work and family due to infertility. Infertility leave can be availed in three installments over a maximum period of 12 months.

Part-time Working Options

In order to protect expectant employees from risks such as miscarriage and premature birth, Samsung SDS provides the option of reduced working hours and systematically ensures time for prenatal check-ups. We also have implemented a system that offers reduced working hours during the childcare period as an alternative to full-time parental leave for those employees who find it challenging to perform their normal duties due to childcare responsibilities.

Usage of Parental Leave

| Category | | Unit | 2020 | 2021 | 2022 |
|---|----------|--------|------|-------|------|
| | Subtotal | Person | 355 | 310 | 315 |
| Number of employees on parental leave | Male | Person | 106 | 93 | 106 |
| | Female | Person | 249 | 217 | 209 |
| | Subtotal | Person | 294 | 304 | 289 |
| Number of employees returning | Male | Person | 76 | 83 | 83 |
| fiorit parental leave | Female | Person | 218 | 221 | 206 |
| | Subtotal | % | 82.8 | 98.1 | 88.4 |
| Parental leave return rate ¹⁾ | Male | % | 71.7 | 89.3 | 78.3 |
| | Female | % | 87.6 | 101.8 | 98.6 |
| Number of employees who stayed | Subtotal | Person | 286 | 290 | 276 |
| on the job for more than 12 months | Male | Person | 74 | 73 | 77 |
| after returning to work | Female | Person | 212 | 217 | 199 |
| Paid parental leave for the primary ca | aregiver | Week | 65 | 65 | 65 |
| Paid parental leave for non-primary caregiver | | Week | 55 | 55 | 55 |

1) Parental leave return rate = number of returning employees/total users of the parental leave

Paid Parental and Family Care Leave

Samsung SDS provides up to 10 days of family care leave per year for employees who urgently need to take care of their family members due to disease, accident, or child-rearing. Employees can take care leave of up to 12 months.

Best Family Friendly Management Certification

Samsung SDS first obtained Best Family Friendly Management Certification in February 2013, and renewed the certification in December 2021. We have been recognized as a Best Family Friendly Management for 11 years, through 2024.



SPECIAL SECTION

Employee-Executive Communication

CEO Code Time: Online communication that brings everyone together

This program enables the CEO, heads of business divisions, external experts, and employees to share and reflect on the management status, latest technologies, and business strategies, with the aim of deciphering the code for a united Samsung SDS. In 2022, a total of four live online events were held to address employees' questions and internal issues.



An on-site communication program is operated where the CEO visits employees located across the country. Various face-to-face programs are also facilitated where employees can meet with the CEO to discuss their concerns and ask questions. By actively listening to voices from the field, tailored messages were shared directly with the employees, taking into account the unique characteristics of the business

CEO Real Time: CEO's on-site visits

sites. (4 visits in 2022)



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Organizational Culture

Labor-Management Council

Samsung SDS operates the Future Empathy Council for a three-year term to cultivate healthy labor-management relations and communication. In compliance with the Act on Promotion of Employee Participation and Cooperation, the Council conducts regular meetings (four times a year) aimed at enhancing the company's system and work environment. Additionally, in 2022, the Council, along with executives, visited business sites to conduct surprise events aimed at boosting employees' morale and sense of belonging. Various activities were carried out to invigorate the organizational culture, including visits to local business sites and labor projects, as well as visits to employees' families.



Samsung Culture Index

To identify the strengths and weaknesses of the organizational culture and enact improvements, Samsung SDS conducts Samsung Culture Index (SCI) once a year for all employees. This involves a total of 30 questions across three areas: enjoyable work, colleagues to work with, and a company to be proud of. Significant efforts have been made to reduce the total number of questions from 55 in five areas, in order to lessen the time required for participation in the diagnosis, and a mobile diagnosis function has been introduced for convenience. Focus group interviews are also carried out with employees to further examine employee sentiment. Based on the results of the organizational health diagnosis, a mini SCI, a follow-up activity, has been implemented. This activity selects departments that require further improvement, identifies weak points, and proposes solutions tailored to each department.

| Category | Unit | 2019 | 2020 | 2021 | 2022 |
|---------------------------|------|------|------|------|------|
| Participation rate in SCI | % | 96.9 | 98.1 | 89.9 | 92.1 |



Grievance Handling System

Samsung SDS operates a range of communication channels, including the organizational culture guardian system, to gather and address major and minor grievances experienced by employees swiftly and fairly. For issues reported by employees, interviews are conducted to verify the facts while strictly maintaining the confidentiality of the informant's information and the content of the report. Necessary measures are taken, and in some cases, disciplinary procedures are conducted in accordance with the company's regulations.

Change Agent

A Change Agent (CA) is a representative who instigates positive change within the organizational culture. They listen to and share the opinions of their department members, thereby stimulating intra-departmental communication. To address vulnerabilities in the organizational culture, they implement department-specific cultural activities, fostering a vibrant organization.

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Human Resource Management

Organizational Culture

Mental Fitness Center

Samsung SDS operates Mental Fitness Center to care for the mental health of our employees.

| Resident Services | Individual Counseling | Psychological Test/ Interpretation | Mental Fitness Programs | | | |
|--|--|---|---|--|--|--|
| Jamsil, Pangyo IT | Mental health, family issues, interpersonal | Mental health (depression/anxiety), | Team building programs, Mindfulness Therapy, | | | |
| Weekly | relationships, stress | personality, career, marriage, parenting | target specialization, meditation | | | |
| Pangyo Logistics, Suwon Data Center, Sangam Data Center, Giheung (Semicon Plaza/ Terra Tower) | * For employees working in locations without counseling offices, on-site counseling phone/video counseling is supported. | | | | | |

Mental Fitness Programs

Samsung SDS provides a variety of psychological testing and interpretation services, including individual counseling, as well as online and offline mental health programs.

| | Те | am Building | | | |
|--|--|--|---|---|---|
| Pleasant Dialogue Acquisition of communication skills | Joyf Sharir s | ul Connection ng of emotions praise | 5/ | Treasur Sharing of and str | e Hunt happiness engths |
| | | | | | |
| | Mind | fulness Thera | ру | | |
| Unfolding the Heart's Mirror Awareness / Meditation | My Heart's Secret Recip Dealing with stress | h e Healir h Emo h intel devel | ig Haven otional ligence opment | Charg Inne Burnout he | Jing the er Self diagnosis/ aling |
| | | | | | |
| | Targe | t Specializati | on | | |
| Men's Chit-Chat Tailored for male employees | Mom's Design | Time to Unwi ned for workir moms | nd Ig | Journey Exclusive fo coup | r of Joy or married oles |
| | | | | | |
| | | Meditation | | | |
| Breath Work Bod | y Mapping | lmaginative Unwinding | Ground | ing Be | nevolence Blossom |
| | | | | | |

Retirement Planning Support

Samsung SDS, through our Career Consulting Center, offers education and counseling on life planning, career mapping, reemployment, entrepreneurship, and Urban-to-rural migration to assist retirees in establishing a new life post-retirement. Despite the challenging circumstance of social distancing due to COVID-19, we have recently facilitated remote counseling and education for retirees. From 2016 to 2022, a total of 385 individuals participated in the education program.

Programs to Support Prospective Retirees

| Career Design Program | Diagnosis of personal values and competencies, identification of self-identity, comprehensive details on the six areas of life, information on career alternatives, setting of career goals, and creation of specific activity plans |
|--|--|
| Support for Reemployment | Understanding changes post-retirement, forming a mindset for successful reemployment, comprehending the characteristics of small business management, exploring the job market, and honing resume writing and interview strategies |
| Support for Startup | Defining business models, analysis of the business environment, business feasibility analysis, information on startup support policy, individual and corporate business registration, as well as startup support business and educational information. |
| Support for Urban-to- Rural Migration | Providing information, experiences, and opportunities for career exploration for homesteaders and returnees |
| Industry Experts (professors) | Understanding the role of an industrial professor and related tasks, student guidance methodologies, and coaching leadership |

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Work Culture Innovation

Samsung SDS has created our unique DevSec-Ops standardized system to innovate work culture and work methods. We have integrated security into development and operation workflows and established an organic feedback system among planners, developers, and operators to share responsibilities. Through automation, it has improved work efficiency and enhanced product release cycles.

DevOps vs. DevSecOps

DevOps is a compound of Development and Operation, denoting the culture, philosophy, methods, and tools required to enhance organizational capabilities based on the integration and collaboration between development and operations. DevSec-Ops extends the principles of DevOps by incorporating and automating security at every stage.



| | DevOps Transformation | | | | | | | | | |
|---|--|---|--|--|--|--|--|--|--|--|
| Automation • Elimination of errors/risks • Improvement of Process Speed | Lean · Focusing on customer value · Swift/continuous improvement | Measurement · Measuring everything · Confirming improvement | Sharing · Information sharing · Collaboration | | | | | | | |
| | Cultu | re | | | | | | | | |

DevSecOps

| Automating configuration of development environment | Web-based development environment to enable development remotely Automatic configuration of development and distribution system Reduce Environment configuration period from 5 days to 1 day |
|--|---|
| Time To Market | Preventing Human error through automation Global distribution in 4 hours → 20 seconds Application cycle reduced by half Zero downtime Automating security vulnerability analysis and security check |

* Based on Intranet System (74 Countries, 500,000 Users)

Sustainable DevSecOps

DevSecOps-Based Working Standards

The standard DevSecOps system of Samsung SDS, based on DevOps principles, classifies the development and operation lifecycle into six areas: Plan, Development, Validate, Deploy, Monitor & Operation, and Collaboration. It integrates standardized toolchains and security in each area and visualizes the progress flow of the whole area for measurement.

| Value Stream Management | | | | | | | |
|-------------------------|---------------------|---------------|--|--|--|--|--|
| | | | | | | | |
| Plan | Development | Validate | | | | | |
| Deploy | Monitor & Operation | Collaboration | | | | | |
| Security | | | | | | | |

Samsung SDS continues to improve the level of DevSecOps through efforts such as improving the culture of sharing and collaboration, simplifying development and operation processes, and enhancing automation and security based on standard tools. Through our internal DevSecOps organization, it supports the application of DevSecOps in each department and improves the quality of work through maturity evaluation.

| Plan | Development | Validate |
|--|---|---|
| Maturity level managing customer requests, planning stage requirements, roadmaps, etc., through a system-based standard development and operation process | The maturity level of all activities related to coding such as coding, test code, configuration management, code review | Maturity levels performing continuous integra- tion, such as code integration, code quality, static security vulnerability analysis, test automation, security check automation, and packaging |
| Deploy | Monitor & Operation | Collaboration |
| Maturity level managing customer requests, planning stage requirements, roadmaps, etc., through a system-based standard development/ | Maturity levels of management such as rates of service availability, operational stage requirements, regular/irregular tasks, | Maturity levels of collaboration and communication between related departments such as planning, development, |

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Social Contribution Strategy

CSR Promotion System

Samsung SDS upholds our CSR vision, "Together for Tomorrow! Enabling People," which aligns with Samsung's management philosophy of maximizing potential (Enabling) and core values of prioritizing people and pursuing co-prosperity. Under this vision, we actively run a wide range of programs that support youth education and contribute to local communities, particularly focusing on vulnerable neighbors. Furthermore, starting in 2022, Samsung SDS has begun to collaboratively operate key CSR projects across affiliates to enhance the expertise and societal impact of the programs. This collective approach amplifies Samsung's capacity to create a positive societal impact in a more significant manner.

| CSR Vi | sion | Together for Tomorrow! Enabling People! |
|-------------------|-------------------------------------|--|
| Key Themes | | Youth education programs |
| Flagship Programs | Youth Education | Samsung Junior SW Academy (AI/SW educational support for primary, middle, and high school students) Samsung Youth SW Academy (Employment support and software training for unemployed youth) Blue Elephant (Cyberbullying prevention training for adolescents) Hope Stepping Stones (Assistance for vulnerable teenagers transitioning out of protection) Samsung Dream Class (Bridging the educational gap among middle school students from underprivileged backgrounds) |
| | Local Comm- unity Programs | Activities to support multiple vulnerable groups, including NANOOM Kiosk, support for boys' home residents and discharged youth, and meal support for underprivileged adolescents |
| Office | in Charge | Corporate Social Contribution Office |

"Together for Tomorrow! Enabling People!"

Samsung SDS is dedicated to assisting young individuals in creatively articulating their potential, and fostering their development into healthy societal contributors. Concurrently, the company makes significant strides to contribute to the local community through diverse social contribution initiatives

VISION

Samsung SDS cultivates a sustainable future aligned with its CSR vision, which echoes Samsung's managerial philosophy of "Enabling" and its core values of "People" and "Co-Prosperity."

Together for Tomorrow! Enabling People

Direction of Activities

Samsung SDS is committed to creating a sustainable society, working in collaboration with various stakeholders such as civil society, NGOs, governments, and individuals to address global social challenges. In particular, we focus on addressing the issue of "youth education" to empower the younger generation to unleash their potential.



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Youth Education Program

Samsung Junior SW Academy

Incepted in 2013 and managed by Samsung SDS since 2022, the Samsung Junior SW Academy operates in partnership with Samsung Electronics, Samsung Display, Samsung SDI, and Samsung Electro-Mechanics. The Academy offers SW-AI convergence education programs, fostering young talent for the AI era through the integration of various knowledge domains. To reinforce the SW-AI education abilities of current educators, the Academy conducts teacher training programs twice a year during school vacations. They provide grade-specific curricula, SW-AI programming editors, and teaching materials developed in collaboration with education experts, thereby supporting schools in delivering high-quality SW-AI education. Additionally, Samsung SDS is dedicated to providing special lectures delivered by Samsung staff and online IT mentorship to students, aiding in the career planning of the younger generation. As of 2022, around 3,600 teachers and 150,000 young people have benefited from the Samsung Junior SW Academy,

Furthermore, the Academy continues to uncover future SW-AI professionals through the Samsung Junior SW Creative Competition, which addresses societal issues via SW-AI. Participating students gain insights into Design Thinking education, SW-AI technology, and digital ethics. These insights are then utilized to identify environmental and social (ESG) issues in the surrounding community and propose various solutions using SW-AI. From 2015 to 2022, a cumulative total of 13,557 teams and 36,094 individuals participated.

| Samsung Junior SW Academy | | (Cumulative total from 2013 to 2022 |) |
|--|------------------------------|---|--|
| 708 teachers | 43,012 students | 3,600 teachers | 150,000 adolescents |
| Participation in the Samsung Junior Software | e Creativity Contest | (Cumulative total from 2015 to 2022 |) |
| Employee volunteers: 66 individuals 6 | 19 teams (1,637 individuals) | Overall participation: 13,557 teams | Total number of participants 36,094 individuals |
| Employee Talent Donation - One-day School | Special Lectures | | |
| 92 employee volunteers | 3,221 students | | |
| Employee Talent Donation - Online IT Mento | ring | | |
| 36 employee volunteers | 36 students | Samsung Junior SW Academy | Samsung Junior SW Academy |
| Employee Talent Donation - Online IT Mento | ring 36 students | Samsung Junior SW Academy (Teacher training) | Samsung Junior SW Academy (School education) |

Samsung Youth SW Academy

The 'Samsung Youth SW Academy' is a project designed to nurture SW professionals and bolster their employability. This is achieved by providing unemployed individuals under the age of 29 with a year of professional SW training and job placement services. This project is a joint effort by six Samsung affiliates, including Samsung SDS. Trainees in the basic course learn about algorithms, coding, web technologies, and more, based on a curriculum designed according to their proficiency levels. In the advanced course, they undertake practical competency projects that utilize 4th Industrial Revolution technologies such as AI and IoT. Launched in 2018, the Samsung Youth SW Academy has seen a total of 4,732 students complete the program from the 1st to the 7th term. By the end of 2022, 3,575 of them secured employment across various sectors like IT and finance, resulting in an impressive employment rate of 76%. Currently, approximately 2,100 individuals are receiving training in the 8th and 9th terms.



(as of the end of 2022)

3,575 individuals

31-1176 01243!

Samsung Youth SW Academy (7th and 8th graduation ceremony)

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Youth Education Program

Blue Elephant

Blue Elephant, a project run jointly by five electronics affiliates including Samsung SDS since 2020, aims to prevent the increasing issue of cyberbullying among youth. As smart device usage surges, so does this serious social issue. The project operates a plethora of activities designed to prevent cyberbullying and establish a safe digital environment. These include online and offline prevention education for youth, teachers, and parents, counseling and healing for victims of cyberbullying, youth idea competitions, forums, SNS campaigns, and academic research. In 2022, it has broadened the age range of prevention education to lower elementary grades to address the decreasing age of cyberbullying victims, and it laid a foundation for policy proposals through parliamentary debates. By 2022, the Blue Elephant Project had seen participation from a total of 660,000 elementary, middle, and high school students, teachers, and parents.



Blue Elephant (Cyberbullying Prevention Program)

Samsung Dream Class

The Samsung Dream Class is a program aimed at bridging the educational divide and supporting the aspirations of youth by providing educational opportunities to underprivileged middle school students. This program, operated jointly by 22 Samsung affiliates including Samsung SDS since 2022. Utilizing an online platform, this program offers three types of educational content: career guidance enabling youth to identify their aptitudes and aspirations while exploring diverse fields: future competencies such as global communication, coding, math, and logic that society will demand; and curriculum learning essential to actualizing their dreams. The program also supports a range of activities, such as mentoring by Samsung employees, field experts, and university students, competitions by field, and online major fairs.

Hope Stepping Stones

Hope Stepping Stones is an initiative designed to provide housing and customized education to young individuals discharged from institutional care, easing their transition into the workforce. This collaboration involves twenty-two Samsung affiliates, including Samsung SDS, alongside social welfare groups, local governments, and NGOs. The project offers single-occupancy housing for two years and various self-reliance support programs, such as education and employment information, to youth aged 18 to 25. Having commenced operations in Busan and Daegu centers in 2016, the project now runs eight centers in regions including Gangwon, Gwangju, Gyeongnam, Chungnam, Jeonbuk, and Gyeonggi, with a Gyeongbuk center opened in 2022 and a Jeonnam center set to open in 2023.



Establishment of the Hope Stepping Stone Center (Cumulative total: 10 centers) Beneficiary Adolescents 6,284 individuals



Stepping Stones of Hope

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Local Community Program

Online and Offline Community Contribution

NANOOM Kiosk

The NANOOM Kiosk is a sponsorship program that shares the stories of vulnerable children and young people in need, such as those from single-parent families or being raised by grandparents, through a kiosk panel or online. Each time an employee tags their employee ID card, KRW 1,000 is donated. Once the target donation amount is achieved, the collected funds are delivered to a chosen child through a partnering NGO. In 2022, a total of KRW 45 million was donated to 15 children, assisting them with educational, medical, and living expenses.

IT Training Center for Local Community

In 2022, Samsung SDS established the Future IT Education Library at four social welfare organizations in underprivileged areas of Gyeonggi-do. This effort aims to bridge the digital divide among children and youth, fostering the development of future talent. The Future IT Education Library allows disadvantaged children and youth to freely borrow and use IT education equipment, such as VR devices and AI-equipped robots, along with educational programs developed by IT education experts and books related to the Fourth Industrial Revolution.

Meal Support for Underprivileged Adolescents

Samsung SDS has initiated a meal support project for vulnerable youths in Songpa-gu, who face challenges accessing adequate nutrition due to the ongoing COVID-19 pandemic. In 2022, it supplied 75 students from five elementary and middle schools with high-quality home-cooked meals tailored to the nutritional needs and preferences of adolescents, promoting a healthier school life.

Scholarships and Gifts for Youth at Detention Centers

This program offers educational scholarships and Christmas gifts to former juvenile detention center residents, aiming to aid their transition into becoming hopeful and ambitious members of society. In 2022, it conveyed society's warmth and hope through scholarships and gifts to 1,405 reentry students at 10 juvenile centers nationwide.

Laptop Donation

Since 1995, Samsung SDS has refurbished and donated idle laptops annually to educational institutions both domestically and internationally through NGOs. This practice not only recycles resources but also supports the IT education environment.

Sister Village Market

To foster interactions with rural communities, Samsung SDS has been collaborating with sister villages since 2002, organizing markets with these villages during Lunar New Year and Chuseok holidays to bolster the rural economy. The company donated local specialties such as tteok-mandu-guk (sliced rice cake and dumpling soup) and songpyeon(half moon-shaped rice cake) from these sister villages to social welfare organizations in Songpa-gu, ensuring a warmer holiday experience for vulnerable neighbors.



Donation of local products from sister villages



Global Social Contribution

In an effort to support overseas IT education, Samsung SDS has delivered digital competency education and has established an IT classroom environment for vulnerable youth in four high schools in Nguyen Quang District, Vietnam. This initiative encompasses digital literacy education—featuring coding, multimedia, and digital marketing—and life skills training on subjects such as time management, communication, and conflict management. The endeavor helps youth to enhance their IT abilities and emerge as proficient future human resources. Furthermore, the organization has set up an infrastructure environment for digital literacy education, including IT education equipment and software programs, for three high schools.

| Establishment of IT education environment | Life skills education |
|---|-------------------------------|
| 3 schools | 164 students |
| Digital literacy education | |
| 15 teacher trainees | |
| 122 students | |
| | Overseas IT education support |

Overseas IT education support

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Employee Participation in Social Contribution

Remote Employee Social Contribution

Despite restrictions on face-to-face volunteer activities due to COVID-19, Samsung SDS has continued to contribute to local communities both domestically and internationally through a variety of remote volunteer activities. These include hands-on volunteering, blood donation campaigns, online mentoring, and IT training videos. Hands-on volunteering-where employees and their family members create donation items for vulnerable individuals-and online IT mentoring-where employees share their SW-AI expertise and experiences-have been particularly well received by program participants. We will continue to contribute to bridging the education gap among youth and solving community issues through various volunteering activities alongside our employees.

| Category | 2020 | 2021 | 2022 |
|--|-------|-------|-------|
| Participants | 3,221 | 1,265 | 1,252 |
| Service hours per person ¹⁾ | 6.6 | 6.8 | 8.2 |

1) Service hours per person = Total service hours (cumulative) / Number of participants in volunteer activities (net)

Sharing Culture

Samsung SDS regularly publishes a social contribution newsletter, "Nanoom Book Story," every even-numbered month. We also post news about employee-involved social contribution activities on our social contribution website to stimulate employee interest and trust in the company's social contributions. Moreover, since 2022, employees who have been exemplary in their passionate social contribution activities have been recognized as outstanding volunteers on a quarterly basis. Their activities and reflections are shared, further promoting the company's culture of sharing. During the company's anniversary month in April, a remote sharing culture festival was held to recount the history of SDS's social contributions through the "Nanoom Book Story", and a "Sharing One Word" contest was organized to encapsulate employees' thoughts on sharing in one word.

| CSR activities letter | |
|--|---|
| | 143 times |
| SDS Award - CSR category | |
| * An annual award for employees who have shown exceptional models in social contribution | 2 individuals |
| | CSR activities letter SDS Award - CSR category * An annual award for employees who have shown exceptional models in social contribution |

Social Contribution Evaluation

Listed as a Corporate Social Responsibility in the Community

Organized by the Ministry of Health and Welfare and the Korea Council for Social Welfare, the CSR in the Community recognizes companies that have consistently carried out local social contribution activities in partnership with non-profit organizations (NGOs). In 2021 and again in 2022, Samsung SDS received high ratings on a total of 25 indicators in the ESG field and was selected as a company recognized for its community contributions.



Types of Philanthropy

| Category | Unit | 2020 | 2021 | 2022 |
|---|-------------|--------|-------|--------|
| Cash | million KRW | 6,161 | 3,629 | 4,163 |
| Time: employee volunteering during paid working hours | Hour | 21,345 | 8,578 | 10,274 |
| In-kind giving: product or services donations, projects partnerships or similar | million KRW | 6 | 33 | 16 |
| Expenses ¹⁾ | million KRW | 31 | 1,800 | 1,603 |

1) From 2023, expenses will be calculated as a separate social contribution expense in addition to donations, so previous years' data will be restated on the same basis.

| Category | | Unit | 2022 |
|---------------------------|------------------------|------|------|
| | Charitable donation | % | 37.1 |
| Percentage of total costs | Community investment | % | 54.9 |
| | Commercial initiatives | % | 8.0 |
| | Total | % | 100 |

Volunteers and Beneficiaries

| Category | Unit | 2020 | 2021 | 2022 |
|---------------------|--------|--------|---------|---------|
| Total volunteers | Person | 10,956 | 9,858 | 10,347 |
| Total beneficiaries | Person | 93,411 | 253,006 | 357,811 |





IT education video Hands on

campaign

production

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Safety and Health

Safety and Health Management System

Safety and Health Management Policy

Samsung SDS has formulated and implemented a safety and health management policy to cultivate a health-conscious company that operates in a safe environment. Additionally, occupational safety and health committees have been established at major worksites, where management and employee representatives convene quarterly to discuss and make decisions on crucial matters pertaining to workplace safety and health. This includes formulating plans to prevent industrial accidents and inspecting and enhancing the working environment. The organization plans to persist in refining the safety and health management system for all stakeholders, including suppliers and employees, within Samsung SDS' management jurisdiction through its safety and health management policy.

| 1. Comply with laws and regulations, domestically and internationally | |
|---|--|
| 2. Create a safe and pleasant workplace | |
| 3 Manage safety and health at a global level | |
| | |
| 4. Build a culture that values safety and health | |
| 5. Promote activities to prevent fatal occupational/civil accidents | |

Safety and Health Management System Certification

In 2014, Samsung SDS secured our initial safety and health management system certification, and in 2017, we successfully transitioned to ISO45001–an extended version of OHSAS 18001–and continues to renew and uphold this certification annually. In 2020, the scope of the certification was broadened to cover not only the headquarters and overseas subsidiaries but also overseas logistics regions and bases. With this in place, Samsung SDS has established a system to evaluate risks and minimize them by proactively identifying risk factors associated with corporate management activities.



Safety and Health Management Polic

Safety and Health Management Policy

Sungeron Hannag President & CEO Alexang Surger

SAMSUNG SDS

Safety and Health Management System Certification

Establishing and Expanding the Safety and Health Organization

Samsung SDS has instituted dedicated safety and health organizations within each business division, centralized around the company-wide EHS Center, to enhance their autonomy and expertise. In particular, in 2022, a chief safety and health officer(CSO) was appointed to oversee safety and health operations across businesses and business sites.



Samsung SDS is extending our domestic safety and health management system to overseas locations and undertaking various activities to ensure the safety and health of our employees. We have designated a safety and health manager at each overseas subsidiary, implemented an accident reporting and information-sharing system, and improved the level of safety and health management at overseas business sites by establishing regular communication with the headquarters through monthly meetings.

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Safety and Health

Safety and Health Management System

Safety and Health System

Listening to the Opinions of Management and Employees

The EHS Committee convenes bi-monthly to share key safety and health activities with senior leadership, including the CEO and CSO. Furthermore, Samsung SDS seeks to incorporate insights from all stakeholders, including suppliers, through regular initiatives such as Occupational Safety And Health Committee, Safety and Health Council, and risk assessments. A variety of channels such as chatbots, the EHS portal, the Smart Safety Management System(SSMS), and a dedicated reporting line(1119), are utilized to receive and address identified risk factors.



Internal and External Safety and Health Assessment System

Samsung SDS engages with external specialized entities such as the Samsung Institute of EHS Strategy and law firms for diagnosis and consultation to recognize and remedy any deficiencies within the EHS management system. Post-self-inspections by various business divisions, the EHS Center undertakes further evaluation and improvement activities related to safety and health.

Implementation Plan of Safety and Health Management System in 2023

To ensure a safe working environment and employee wellbeing, Samsung SDS sets significant advancement goals, reports them to the BOD, and chooses and executes specific tasks to achieve each goal.

| | Detailed Implementation Goals | |
|--|---|--|
| Zero serious industrial/civil accidents | Risk assessments in all workplaces and enhanced compliance activities | Expansion of health promotio programs and achieving over 80% participation in post-car for minors |

Promoting Employee Safety Awareness

Samsung SDS has implemented the EHS slogan, Ten Commandments, and Ten Safety Rules to stimulate employees' interest and consciousness around safety and health. Safety and health awareness are consistently fostered throughout the company through EHS letters, Office Safety, and a knowledge-sharing program.





EHS slogan

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Safety and Health

Safety Management Activities

Implementation of Smart Safety Management System

A site-centered Smart Safety Management System (SSMS) has been implemented to proactively prevent various accidents and to comply with laws and regulations. Plans and results from numerous activities such as meetings, inspections, and training sessions are digitized and managed to increase worker convenience and guarantee legal compliance. Moreover, functions for accident reporting and follow-up, evaluation of qualified suppliers, and so on, have been further developed to ensure legal compliance.



Safety Inspection and Hazardous and Risk Factors Improvement

Samsung SDS conducts regular on-site inspections at domestic business sites, logistics centers, and construction projects to detect potential hazards and risks and to make necessary improvements. In 2022, a total of 5,805 hazards and risks were identified and mitigated. Special safety inspections are carried out during holidays and potential disasters to preemptively identify and eliminate risk factors. Furthermore, special safety inspections led by the CEO, CSO, and other executives are conducted to enhance the overall commitment to safety and health within the organization.

> Number of harmful and risk factors identified Total 5,805 cases

Risk Assessment

A risk assessment process is employed to identify harmful and dangerous factors in the workplace, with reduction measures subsequently established and implemented based on the estimated frequency and severity of these risks.

Activities to Strengthen Risk Assessment

Samsung SDS regularly offers specialized risk assessment training for employees and suppliers at domestic business sites, logistics centers, and construction projects. We reinforce management through various methods such as the operation of task forces for risk assessment verification, training through external specialized organizations, consulting, and a certification system.



Risk Assessment Training



Right to Cease Operations

Samsung SDS ensures that all workers, including subcontractors, have the right to halt operations should there be an imminent risk of industrial accidents. Workers are then able to make their judgment and evacuate after stopping work if necessary. There are no penalties for exercising this right; in fact, rewards are given for contributing to disaster prevention. The right to halt operations is promoted to workers and is a focal point in safety management at high-risk sites.



On-site promotional materials for the right to cease operations
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Safety and Health

Safety Management Activities

Accident Investigation Response Process

In the event of an accident involving an employee or a supplier's worker, the organization adheres to a systematic process that includes accident investigation and reporting, the establishment and implementation of measures to prevent recurrences, and horizontal deployment across business sites if necessary. Samsung SDS operates a reporting system according to the type and extent of the accident and analyzes the cause and prevention measures for recurrence following procedures based on internal guidelines. Subsequently, measures are implemented to prevent similar accidents from recurring through a knowledge-sharing program termed "Learning from Mistakes".



Safety and Health Training in Workplaces

To heighten our employees' interest in safety and health, and to build their capacities for ensuring health and safety, Samsung SDS has developed safety and health training contents. With the developed content, Samsung SDS trains all employees every year. Additionally, Samsung SDS plans and provides a variety of safety and health training programs to prevent safety accidents in the workplaces, such as training to strengthen the job-specific competencies of persons in charge of safety and health management and training specialized for those working at warehouses and construction sites.





Online Fire Evacuation Training

Special Lecture on Safety Leadership

Emergency Response Drills

Samsung SDS carries out emergency response drills biannually, designed to ensure rapid evacuation of all employees in the event of emergencies, such as fire outbreaks. Emergency response scenarios have been devised for not only the Jamsil Campus but also major business sites like data centers and logistics centers. The organization constantly refines its emergency response system through role-specific drills.

Safety and Health of Suppliers

Priority Management of Suppliers

A safety management system has been established, focused primarily on suppliers who may be more exposed to industrial accident risks. Based on the working conditions and previous accident incidents at high-risk locations, like logistics centers and construction projects, Samsung SDS aims to maintain a safe environment and a healthy workforce for all personnel, including suppliers, via on-site training and awards.

Activities to Prevent Disasters in Suppliers

For the prevention of supplier-related disasters, Samsung SDS has implemented the Campaign, a system to acknowledge excellent practices through engagement in sub-accidents and risk factor discovery activities. Activities such as suppliers to comply with legal requirements through the Smart Safety Management System (SSMS) are also carried out at business sites.

Assessment of Qualified Suppliers

Samsung SDS minimizes accident risk through assessments that confirm the safety and health competencies of suppliers. Guidelines are provided to assist suppliers in autonomously bolstering their safety and health management systems, thus ensuring worker safety. This is achieved through the evaluation of various elements such as safety and health plans, risk assessments, and safety inspections.

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Safety and Health

Health Management Activities

Safe and Healthy Workplaces Management

To maintain a healthy workplace, Samsung SDS has broadened our air quality management within our offices. Furthermore, we have carried out consultations on musculoskeletal hazards in a bid to prevent musculoskeletal diseases, which have recently been the focus of societal attention. It has been confirmed that there are no tasks posing musculoskeletal burdens.

Air Quality Measurement

Samsung SDS has enhanced office air quality management program at our major business sites, aiming to ensure a healthy working environment.

| Targets | 3 campuses, 4 data center offices and rest areas, etc. |
|--------------------|---|
| Period | Precise measurements twice a year |
| Items (9 items) | Ultrafine dust, fine dust, carbon monoxide, carbon dioxide, formaldehyde, TVOC, total airborne bacteria, nitrogen dioxide, mold |
| Results | No areas to concern; all items were measured within the allowable range in both 1st and 2nd half of 2022 |

Survey on Musculoskeletal Hazards

Samsung SDS undertook a musculoskeletal hazard survey for the first time in October 2022 to build a healthy office environment for our employees and prevent health hazards. It confirmed that there were no tasks imposing musculoskeletal burdens. In order to prevent Visual Display Terminal (VDT) syndrome among employees who spend long hours on PCs, ergonomically designed chairs have been provided at all business sites to alleviate neck and back pain. Keyboards and mice have also been supplied to all employees.

Securing the Response Capacity for Contagious Diseases

Samsung SDS has vaccinated our employees against COVID-19 through in-house medical professionals and implemented flexible workplace response guidelines to mitigate the business impact.

| Round (Year) | Unit | person |
|-----------------|--------|--------|
| 1st Round(2021) | Person | 5,027 |
| 2nd Round(2021) | Person | 4,989 |
| 3rd Round(2022) | Person | 756 |

COVID-19 Prevention Guidelines Implementation

Quarantine guidelines to prevent infectious diseases have been established, and an emergency response system activated through a dedicated organization to enhance workplace safety. A teleworking system is also in place for all employees, with flexible policies enacted to facilitate the safe return of employees to their regular routines, reflecting the recent decline in COVID-19 cases.

| Disease Control Guidelines | Remote work system in operation (2020-2023) Operate a flexible system in accordance with government and affiliate guidelines |
|-------------------------------|--|
| Chatbot | Delivering major announcements on test results through an internal messenger Implementation of proactive responses through the input of examination records and operation of FAQs |
| COVID-19 Cost Assistance | \cdot Support for rapid antigen test costs based on quarantine standards |

Employee Healthcare and Support Activities

Samsung SDS offers comprehensive health checkups for employees, their spouses, and parents, and operates clinics at the Jamsil and Pangyo IT Campuses. In-house clinics or external hospitals also provide support for flu vaccinations, aiming to ensure a healthy and safe working environment for all employees.

Support for Comprehensive Health Examinations for Employees and Their Spouses/parents

| Category | Unit | 2020 | 2021 | 2022 |
|---------------|--------|--------|--------|--------|
| Employees | Person | 10,146 | 10,415 | 10,014 |
| Spouse/Parent | Person | 6,041 | 6,439 | 6,635 |
| Total | Person | 16,187 | 16,854 | 16,649 |

Operation of In-house Clinics at Jamsil Campus/Pangyo IT Campus

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Safety and Health

Health Management Activities

Employee Health Promotion Training

In an effort to improve employee health, a health promotion program, "Healthy UP," was initiated for individuals with severe health conditions. Health lectures were also held to increase employee health consciousness. In 2023, plans are in place to broaden the program to include more participants.

Operation of Health Promotion Program

In 2021, Healthy UP, a health promotion program, was implemented for individuals with high health risk factors identified during health checkups. In 2023, the program expanded to include "Healthy UP+" through in-house clinics in Jamsil and Pangyo Campuses, and "AnyFit PRO," a digital healthcare program using an app to manage employees' health at local business sites.

| Healthy UP | | | | | |
|--|---|--------------------------------|--|--|--|
| Period | May 2022 ~ November 2022 (6 months) | | | | |
| Targets | 100 volunteers among those with findings in 2021 health examinations | | | | |
| Institution | In-house clinic at Jamsil Campus | | | | |
| Details | Periodic health indicator tests(blood test, blood pressure, InBody) 1:1 tailored lifestyle correction counseling | | | | |
| Participation rate | 93% (93 completed, 7 dropped out due to long-term business trips, education, etc.) | | | | |
| Comparison of key blood indicators before | 84 with kidney disease | 78 with dyslipidemia | | | |
| and after participation (overlap possible) | 77 with diabetes | 64 with improved liver disease | | | |

| 2023 Health Promotion Program (2022: 1 session \rightarrow 2023: 4 sessions) (Unit: Per | | | | | |
|---|-----------------------------------|------------|-----------------------------------|--|--|
| Healthy UP+ | 200 in the 1st half (in progress) | | 100 in the 1st half (in progress) | | |
| | 200 in the 2nd half | AnyFil PRO | 100 in the 2nd half | | |

Health Lectures for Employees

As part of the initiatives to increase employee health awareness, health management lectures were conducted to spur interest in health and promote a health-conscious organizational culture. The course was made available online on the company's bulletin board, ensuring employees who couldn't attend the live sessions could take it at their convenience. Due to high interest from the employees, the program is slated to run again in both the first and second halves of 2023.

| Wise Healthy Living (2022) | | Health Lectures (2023) | | |
|----------------------------|--|------------------------|---|--|
| Attendees | 100 individuals | Attendees | 200 individuals | |
| Date | October 6, 2022 | Date | March 22, 2023 | |
| Instructor | Professor Mi Hyun Kim (Department of Family Medicine, Kangbuk Samsung Hospital, Samsung Medical Center) | Instructor | Professor Yong-Woo Park (Head of the Health Promotion Center, Kangbuk Samsung Hospital, Samsung Medical Center) | |
| Subject | Tips for choosing individual optional items during health screenings, and ways to prevent and manage the 9 major diseases designated by the Ministry of Employment and Labor(MOEL) | Subject | Understanding and managing hypertension and dyslipidemia ※ 1 operation in 2022 → 2 operations in 2023 (first half completed) | |

CPR Training

To prepare for potential emergencies such as sudden cardiac arrest and breathing difficulties, Samsung SDS has provided CPR and automated external defibrillator (AED) handling education to designated CPR officers responsible for emergency evacuation on each floor across all campuses. Additionally, in 2023, the organization plans to expand this program to include all employees and conduct CPR and AED training at major business sites.

| Emergency Evacuation Officer CPR Training (2022) | | | | |
|--|---------------|--|--|--|
| Jamsil Campus | 150 completed | | | |
| Pangyo IT Campus | 43 completed | | | |
| Pangyo Logistics Campus | 33 completed | | | |



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SPECIAL SECTION

Brand Story

Cloud Service

芸 Samsung Cloud Platform

Cloud, Simply Fit: The Most Concise Answer for Businesses

Samsung SDS stands as the sole cloud company in Korea, providing comprehensive Cloud Service Provider(CSP), Managed Service Provider(MSP), and Software as a Service(SaaS), the core services of the cloud. We craft a "true hybrid cloud" catering to the needs of a diverse range of corporate customers. The brand's slogan, "Cloud. Simply Fit(The Most Concise Answer for Businesses)," embodies our commitment to delivering an easy-to-use, customizable cloud for enterprises feeling overwhelmed by the complexity of cloud technology, thereby fostering digital business transformation, an essential ingredient for future enterprise growth.

Samsung Cloud Platform: A Custom-Made Cloud for Enterprises

The Samsung Cloud Platform fosters data-driven business transformation in collaboration with clients, utilizing distinguished technology and a deep understanding of customer needs.

It caters to the demands and regulations of various sectors such as public, financial, and manufacturing. The platform empowers customers to swiftly implement new IT technologies in the cloud environment to accomplish corporate innovation and growth. By hosting media days, digital advertisements, and industry-specific roadshows in major cities like Seoul, Jeonju, and Busan, Samsung SDS seeks to form stronger ties with customers and present a blueprint for the industry cloud.

Logistics Service



Cello Square: Click on Logistics

Samsung SDS' Logistics Business Division embarked on our Logistics business process outsourcing journey in 2012, initially with Samsung affiliates. Inspired by the pivotal role of the cello in an orchestra, the operation system adopted the name "Cello," signifying the orchestration of logistics and innovation. Today, Cello symbolizes the integrated logistics platform that anchors Samsung SDS' IT-based global logistics services.

In 2015, the Logistics Business Division of Samsung SDS unveiled Cello Square, an open global logistics platform and digital forwarding service. Cello Square combines the symbol of "Cello" representing IT-based logistics services, with "Square" representing the space where collaboration and communication between shippers and logistics execution companies take place.

※ Terminology

- CSP(Cloud Service Provider): An enterprise that provides virtualized physical resources such as software, storage, and servers via the network
- MSP(Managed Service Provider): A corporation that offers services ranging from consulting to network and infrastructure management, and security and monitoring when a business client adopts and operates a cloud
- \cdot SaaS(Software as a Service): A service that provides applications needed by users via the cloud







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Customer Communication

Samsung SDS operates websites in 7 different languages to communicate with our customers around the world. Customers can access Samsung SDS' cloud products, digital transformation services, insight reports, and customer cases. In addition, Samsung SDS conducts an annual web accessibility quality certification review and checks the convenience so that the elderly and people with disabilities also can easily use the websites. In July 2020, Samsung SDS launched a cloud-based My Trial service where users can try out Samsung SDS solutions and services. My Trial service is as channel to support untact sales in the midst of COVID-19 and serves as a unified channel for customer contact. Samsung SDS actively communicates with customers through various social media channels including YouTube and Instagram.

Customer Satisfaction Measurement(Regular)

A comprehensive customer satisfaction survey by industry/class/business type every year

Digital Channels

- Optimized environment for mobile devices on its official websites
- Guidelines on accessibility standard that allows all users to use the websites conveniently

Customer Satisfaction Measurement(Irregular)

• Survey on customer experience on projects, logistics services, and solutions.

Content Marketing

- Executive Briefing Center(EBC)
- Social channels(YouTube and Instagram)
- Newsletters
 Insight Reports
- Customer Needs
 Improvement Plan
 Progress Review

SPECIAL SECTION

REAL SUMMIT 2022

Real Summit is an annual flagship event where Samsung SDS showcases its IT technologies and application instances to external customers. Initiated in 2019, the yearly event boosts awareness of Samsung SDS' IT technologies among external customers and facilitates business expansion. This event introduces digital transformation(DT) strategies targeting industries such as parts, manufacturing, distribution, and service and detail Samsung SDS' cloud-centric technologies and their practical applications. Seminars are divided into general sessions and multi-tracks, and exhibition booths are also available. The Real Summit provides a platform for invited customers to reinforce their relationship with Samsung SDS, participate in interest-based seminars.



Customer Satisfaction Management

Since 2008, Samsung SDS has regularly conducted comprehensive customer satisfaction surveys in the first and second halves of each year by customer industry, class, and business type through Gallup Korea. In 2022, we achieved a customer satisfaction score of 94, and have maintained a level above 90 for four consecutive years.

| Category | Unit | 2020 | 2021 | 2022 | Target |
|-----------------------------|-------|------|------|------|--------|
| Customer satisfaction score | Score | 93.3 | 92.2 | 94.0 | 90 |
| Data coverage | % | 100 | 100 | 100 | 100 |

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Q-Analytics

Customer Satisfaction

Quality Management Activities

Quality Control System

Under the quality management principles, customer satisfaction, and sustained innovation, Samsung SDS operates a quality control system by building the quality assurance frame by service type.

Q-Academy

Samsung SDS unique training system designed to nurture quality experts

- · INNOVATOR Samsung SDS unique methodology
- Open OA
- Integrated quality management system
- · Q-Analytics
- Quality analysis system for risk prevention
- ORB (Ouality Review Board)
- Ouality Review Board, essential activities to achieve quality goals
- · PPW (Project Planning Workshop)
- Project Planning Workshop
- Code Analyzer
- Code analysis and inspection tools
- PCW (Project Closing Workshop) Project Closing Workshop



In 1994, Samsung SDS became the first company in the industry to be certified for Quality Management System(ISO 9001) in the System Integration sector. We achieved the Master level of the IT Infrastructure Library(ITIL) in 2003, obtained the Environmental Management System (ISO 14001) certification in 2014, and the Information and Communication Quality Management System (TL 9000) certification in 2017, with continuous renewal and maintenance. In 2020, we added the Cloud Controls Matrix-based Maturity Assessment Certification (CSA STAR) and Supply Chain Security Management System(ISO 28000) certifications to our portfolio, expanding the application of global top-level guality management systems. In 2023, Samsung SDS acquired the highest level of software process quality certification(SP Grade 3) for the first time in Korea

INNOVATOR

planning

Q⁻Director

Q-Academy

Solution Test

Solution Quert

IRelease

Quality

Assurance

Puality Support Service

tion/Migration

Migration

Diagnosis

Quality Support Service

OpenQA

QRR Initiation

Development Quality Service

Devel-opment

6

PCW

PPW

SPECIAL SECTION

Acquired the Highest Level of Software Process Quality Certification

Software Process(SP) certification, governed by the National IT Industry Promotion Agency(NIPA), assesses software process guality capabilities of software companies and assigns a grade based on the Software Industry Promotion Act. Samsung SDS is the only Korean company to achieve the highest grade since the implementation of the program in 2009. The high software process guality signifies consistency and continuous improvement throughout the entire process of software development to delivery, leading to superior quality services. The SP certification grade reflects the guality capability level of the project execution-related activities of the audited organization. While Grade 2 necessitates meeting the standards in project management, development, and support areas, Grade 3 requires additional organizational management and process improvement areas. The main evaluation criteria for Grade 2 include project management(project planning/control/ supplier management), development(requirements management/analysis/design/implementation/testing), and support(guality assurance/configuration management/measurement and analysis). In contrast, Grade 3 evaluation involves organizational management(organizational process management/staff training) and process improvement(organizational performance management/problem resolution/process improvement management). Samsung SDS is committed to further enhancing our guality capabilities grounded on processes, methodologies, and systems to earn customers' trust.





1000 1010 5: Young Song Information and Supply Chain Security Communication Quality Management System Management System (ISO 28000)

kfq

CERTIFICATE

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(TL 9000)



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(CSA STAR)



ftware Process Matrix-based Maturity **Ouality Certification** Assessment Certification (SP Grade 3)

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Quality Management Activities

Charter of Quality

Samsung SDS has set "Perfection in Quality. Be Experts & Work Smart!" as our quality vision and strives to improve quality according to five guidelines.

Quality Vision

Perfection in Quality. Be Experts & Work Smart!

| | Quality Vision Guidelines |
|------------------------------|---|
| Quality First | Quality is not a subject to compromise. |
| Customer Satisfaction | Quality is to bring customer satisfaction and the value of products and services. |
| Faithful to Basic | Quality is our conscience! Strictly abide by rules and processes. |
| Continuous Innovation | Consistent quality innovation to innovate and grow based on new technologies and |
| | businesses. |
| Craftsmanship | Ponder and elaborate beyond perfection towards zero defect. |

Business Continuity Plan

For various risks, Samsung SDS reviews optimal response plans based on the results of organizational status analysis, Business Impact Analysis(BIA) and Risk Assessment(RA), establishing measures to minimize business disruption and damage and to secure business continuity.



Quality Risk Management

| Application of Quality Management Process by Business Type | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|
| System Integration | Inspecting quality at major stages and taking corrective/follow-up measures for nonconformities Operation of risk management system for proactive risk identification and prompt response Continuous activities to strengthen quality competitiveness such as preceding process quality strengthening | | | | | | | | |
| Operation and Service | Ensuring stable supply of services and products and aiming to achieve service level agreed with customers Quality check at the time of operation transfer and service opening (guarantee of stable service) Increasing customer satisfaction through regular operation quality improvement and failure prevention activities | | | | | | | | |
| Solution | Applying quality management process from solution planning to development and launch Regular DevOps sprint checks through the following systems under the DevOps framework Checking quality on areas such as function, CX, performance, and security before release Securing source code with high maintainability and development productivity(solution quality improvement) | | | | | | | | |

Improving Employees' Awareness of Quality

Samsung SDS conducts training for domestic and international employees to develop their capacities for quality improvement every year so that all employees can recognize the importance of project completion as the main body for quality management.

| Training | Content |
|--------------------------------------|---|
| Quality mindset | \cdot Raise employees awareness of quality by conducting case-based online education |
| Nurturing quality management experts | Nurture quality management experts through theoretical and practical training on establishment/operation/solution quality management |
| Nurturing test experts | Nurture quality management experts through functional test, security test, and performance test training for developers/operators |
| Root Cause Analysis(RCA) | Nurture RCA experts and providing training for in-house risk managers Improve capabilities for failure cause analysis and problem-solving(online training) |

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Quality Management Activities

Service Failure Management

Samsung SDS carries out activities on a regular basis to prevent service/system failures in advance, and conducts regular mock drills every year for failure and disaster recovery. In addition, Samsung SDS takes necessary measures in a timely manner by monitoring infrastructure equipment/applications 24 hours a day, 365 days a year, and by sharing anomalies in real time with relevant departments. Through the Failure Review Board(FRB), in which Root Cause Analysis(RCA) experts participate, Samsung SDS reviews the technical causes, operating environment, measures and preventive measures for all procedures, when a failure occurs until measures are taken, and carry out company-wide activities to prevent similar failures from reoccurring.

IT Failure Rate¹⁾

| Category | Unit | 2020 | 2021 | 2022 |
|-------------|------|-------|-------|-------|
| Target | ppm | 0.060 | 0.060 | 0.024 |
| Performance | ppm | 0.053 | 0.024 | 0.004 |

1) Failure Rate: Accumulated downtime (minutes) ÷ equipment operating time (minutes)

No. of Failures and Customer Downtime

| Category | Details of indicators | No. of failures/hour |
|----------------------|---|----------------------|
| Performance issue | No. of failures that lasted more than 10 minutes and less than 30 minutes | 14 cases |
| Service disruption | No. of failures that lasted more than 30 minutes | 49 cases |
| Customer downtime | Based on the duration of each failure and the number of SW or IT service licenses affected | 112 hours |

Quality Control through OpenQA system

Samsung SDS has managed quality and risk by business type through the OpenQA system, and expanded this system to mobile to register and analyze evaluation results and take necessary measures in real time. In addition, we are effectively monitoring the quality level by utilizing IT Service Health Check which allows each department to check the operating status/ level classified by customer service, service operation, product quality, and process quality in real time.



Development Methodology

Samsung SDS leverages our Innovator methodology, which standardizes procedures and methods for conducting business based on our proprietary experience and expertise, to manage quality by business type. In 2022, we established and revised the methodology for each type of transition based on cloud transition business cases, thereby securing competitiveness in the cloud business.

| International | SW Process Model | SDS Management Philosophy | Diverse Business Experience | | | | | | | |
|--|--|---|--|--|--|--|--|--|--|--|
| | Samsung SDS' Exclusive Methodologies | | | | | | | | | |
| | INNOVATOR | | | | | | | | | |
| MSP Cloud Transition(Consulting/Re-host/Re-platform/Re-factor/Re-purchase), Cloud Infrastructure Construction | | | | | | | | | | |
| Solution | Product Developme | nt(SW), Application Construction(Pack | age Application) | | | | | | | |
| CSP | Infrastructure Design and Construction, Overseas ICT Infrastructure Construction | | | | | | | | | |
| SI | BPR/ISP, PI/MDM/FA Feasibility Study for Communication Net | BPR/ISP, PI/MDM/FA/BIM/DSC Consulting, PLM Level Diagnosis, Infrastructure Diagnosis, Feasibility Study for Global Business, Application Construction, ES/MDM/SCM/ERP/CRM/RPA/ Communication Network Construction | | | | | | | | |
| SM | Basic Facility Diagno Solution Constructio GDC Operation Tran | sis, Data Center Migration, Security an n, Service Design, Application Improve sfer, Infrastructure Operation | d Network Consulting, Security ement and Operation, | | | | | | | |
| Logistics | Establishment of Glo | obal Trade Management (GTM) | | | | | | | | |
| DT Engine | Technological R&D, | IoT/Chatbot/Big Data Platform/BA/DV | V/Blockchain Construction | | | | | | | |
| General | Proposals, Project M | lanagement | | | | | | | | |

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Quality Management Activities

Code Quality Management

In 2021, Samsung SDS introduced an evaluation methodology to index software structural quality levels aiming to enhance software maintenance and code quality. An automated measurement system was established through the code quality analysis tool, CodeBot.

Software Structural Quality Level Indexing Evaluation Method

This methodology evaluates codes used in business operations using a three-level index (good/partial improvement/full improvement), based on seven structural code quality criteria. This indexing approach improves code comprehension by reducing code complexity, removes redundant source code to reduce executable file size and deployment time, and strengthens independence between modules to improve source code reusability.

Structural Code Quality Measurement



SPECIAL SECTION

Code Quality Analysis Tool(CodeBot)

CodeBot validates changed code by performing builds and running unit tests, identifies code targeted for structural code quality improvement, and facilitates code reviews by automatically assigning reviewers and updating review progress(requesting reviews, registering review comments, etc.). The utilization of CodeBot has enhanced the convenience of code quality reviews, reduced labor time(from 1 hour to 35 minutes), identified errors in advance, provided improvement guidelines, and suggested improvements to increase code quality.



1) The developer stores the source code in the source code repository

② Requests are made to measure code quality indicators for newly stored source code

③ The automatic measurement tool measures the code quality indicators for the requested source code

④ Reporting of analysis results: Score by indicator and identification of source codes for improvement, along with other improvement information, is provided to developers and reviewers

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Supply Chain ESG

Supply Chain ESG Roadmap

With the goal of building a sustainable supply chain ESG ecosystem, Samsung SDS is establishing a supply chain ESG management system, strengthening the ESG management capabilities of our suppliers, and continuously striving to comply with global ESG laws and standards and fulfill our social responsibilities.



Creating a Sustainable Supply Chain

To build a sustainable supply chain, Samsung SDS has implemented company-wide policies and systems and established a dedicated supply chain ESG organization comprised of in-house experts. We provide various programs to aid suppliers in identifying and implementing improvements through systematic processes such as guiding codes of conduct, confirming compliance agreements, self-inspections, on-site inspections, and third-party inspections. Starting in 2023, Samsung SDS plans to join the CDP Supply Chain Program to promote the reduction of GHG emissions among our suppliers and to monitor and improve the accuracy of carbon emissions management and reduction performance in the supply chain.



Supply Chain ESG Status

Samsung SDS is continuously expanding our supply chain ESG management targets. In 2022, we expanded from IT to logistics and construction, and we are managing supply chain ESG risks by strengthening management of labor rights as well as safety environment of our suppliers.

| Category | 2021 | 2022 | | |
|--|--|-----------------------------|--|--|
| ESG management targets | IT | IT, logistics, construction | | |
| No. of suppliers that signed the Code of Conduct | 207 companies | 293 companies | | |
| No. of suppliers participating in self-inspection | 207 companies | 264 companies | | |
| No. of suppliers participating in on-site inspection | 47 companies | 66 companies | | |
| Evaluation criteria for internal organizations in charge | Include ESG into KPI for Partner Collaboration Team(purchasing) | | | |
| Signing ESG applied contracts(Labor, Human rights, Environment, Business ethics, etc) | Automatically include in th purchasing system | e contract through the | | |
| Education on sustainable procurement | For Samsung SDS purchasing managers and those in charge of suppliers | | | |

Strengthening ESG Management Capabilities of Suppliers

Samsung SDS is committed to improving the ESG management level of our suppliers and fostering mutual growth. The contracts signed by Samsung SDS and our suppliers include contents on sustainability management, ensuring the human rights and rights of workers of suppliers, and social responsibility to protect the environment(compliance with the Code of Conduct). Samsung SDS provides training and consulting services to bolster the ESG management capabilities of our suppliers, manage potential ESG risks, and enhance ESG awareness among our suppliers.

Operation of a Dedicated Organization

Samsung SDS has established a dedicated organization for supply chain ESG management to strengthen our independence and expertise and to check and support the sustainable management systems of our suppliers.



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Supply Chain ESG

ESG Evaluation for Supply Chain

ESG Evaluation Process for Supply Chain

Samsung SDS carries out a systematic and comprehensive ESG evaluation of our suppliers through a cycle of planning, execution, assessment, and improvement planning, along with continuous monitoring. This ensures that every facet of the business operation, from supplier selection to collaboration, is conducted in line with ESG principles.



Checklist

The checklist utilized in performance assessment is designed to ascertain suppliers' adherence to ethical conduct, integrating important national and international issues that are updated annually. In 2022, Samsung SDS added new evaluation criteria, such as efforts to diversify the supply chain and initiatives to curtail carbon emissions. Encouragingly, the attainment of certifications such as Family-Friendly Company, Excellent Employer for Persons with Disabilities, and Female Owned Enterprise was recommended. The checklist promotes the enactment of policies that foster diversity, equity, inclusion, and green purchasing initiatives.

| Sector | No. of Items | Inspection Items | New Inspection Items Added in 2022 |
|------------------------|--------------|--|---|
| Labor Rights | 23 | Voluntary labor, compliance with working hours, etc. | Diversity(anti-discrimination, equity, and promotion of inclusiveness programs), etc. |
| Safety/ Environment | 10 | Emergency preparedness, environmental permits, etc. | Green Procurement Activities for GHG Emission Reduction, etc. |
| Business Ethics | 4 | Corporate integrity, intellectual property protection, etc. | Prevention of anti-competitive behavior, etc. |
| Management System | 4 | Corrective actions, supplier responsibilities, etc. | Participation in ESG education, etc. |

Supply Chain ESG Performance Assessment

Self-Inspection

Samsung SDS has developed 41 self-check items based on the Code of Conduct that guides our supply chain ESG direction. These items are distributed to all suppliers for an annual self-check consisting of 35 questions, depending on their industry. Prior to distribution, we provide self-assessment training to our suppliers, which includes guidance on assessment methods, supply chain ESG management system direction, and new assessment items. Through dedicated time for inquiries and answers, we aim to foster ongoing two-way communication and expand engagement with our suppliers.

On-site Inspection

On-site inspections of suppliers are conducted by a dedicated supply chain ESG organization that performs independent verification functions. To rigorously scrutinize the work environments of our suppliers, Samsung SDS identifies problems and formulates short-, medium-, and long-term strategies based on feedback from suppliers. Immediate corrections are made for issues that can be improved on-site, and other issues are monitored based on the suppliers' improvement plans. Samsung SDS produces and provides an Implementation Guide for Improvement to our suppliers and conducts detailed training on each item separately, contributing to enhancing the level of ESG management of our suppliers.

On-Site Inspection Results - Compliance Rate



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Supply Chain ESG

Managing Implementation of Improvements through Third-Party Inspections

In 2022, to proactively identify and manage supply chain ESG risks, Samsung SDS selected key suppliers* and conducted third-party inspections based on a checklist that enhanced the existing inspection items. The third-party inspection was divided into a first and second audit. The average score increased by 10.8% in the second audit, reflecting the successful implementation of improvements identified during the first audit.

* Major suppliers: Companies with supply chain ESG risks and significant impact (companies with transactions and transaction percentages of a certain size, companies with improvement points identified through self-inspections and on-site inspections)

Improvement Rate

| Category | Improvement Rate | Major Violations |
|--------------------|------------------|---|
| Labor Rights | 6% | Promotion of diversity, enhancement of equity, etc. |
| Safety/Environment | 14% | Eco-friendly management strategy, etc. |
| Business Ethics | 34% | Measures for intellectual property protection, etc. |
| Management System | 8% | Corrective action processes, etc. |

Incentive Program

Based on the results of ESG performance checks of suppliers, Samsung SDS supports incentive programs for suppliers demonstrating excellent ESG management. These incentives motivate participation in ESG practices and raise awareness about the necessity for ESG. In 2022, a total of eight suppliers were recognized as Excellent ESG Suppliers, and Samsung SDS provided practical incentives for a sustainable future, such as exemptions from on-site inspections for the next year, support for suppliers' education expenses, and financial support through the Win-Win Management Fund.

Reinforcement of Supplier ESG Competencies

Samsung SDS plans, develops, and operates various programs to enhance the ESG management capabilities of our suppliers and manage ESG risks.

| Targets | Category | Content |
|-----------------|--|---|
| All suppliers | Education through ESG experts | ESG trends and best practices, sustainable procurement, Samsung SDS Code of Conduct, and customized guidelines |
| All suppliers | Training based on 2022 ESG Inspection results and implementation guidelines for improvement | Selection of key improvement items from performance evaluations(self-inspections/on-site inspections) and production of implementation guides to support suppliers' ESG management ESG Q&A and voice listening sessions |
| Major suppliers | Consultations with ESG experts | Support in establishing and implementing improvement plans for ESG material issues(environment, labor rights, social responsibility, etc.) Detailed guidelines for new inspection items in 2022(diversity policy within supply chain, GHG reduction activities, establishment of eco-friendly purchasing policy, etc.) |



Consultation sessions

Publication of ESG Assessment

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Shared Growth

Roadmap for Shared Growth

Samsung SDS leads in developing an ecosystem of collaboration by establishing and implementing a roadmap to achieve shared growth with our suppliers.

| Introduction | Laying the foundation | Advancement | Development of an ecosystem |
|--------------------------------|--|---|---|
| 1999 ~ 2005 | 2006 ~ 2010 | 2011 ~ 2015 | 2016 ~ Now |
| Establish stable foundation | Strengthen the competitiveness of suppliers | Establish a system for long-term shared growth | Spread shared growth culture in the ICT industry |

Shared Growth Policy

Samsung SDS has established policies to promote sustainable shared growth based on trust built through the establishment of a culture to promote fair trade, and conducts various activities for fair trade, collaboration, and value creation.

| Goal | Keywords | | Activities | | | | |
|--|----------------|---|---|---|--|--|--|
| | Fairness | Creating a clean and transparent business environment | • Fair trade • Technical support/ protection | 4 fair trade practices Unfair trade practice report center Development methodology Technical data escrow | | | |
| Generate synergy with suppliers to pursue shared growth | Collaboration | Strengthening the competitiveness of suppliers through cooperation and support | Financial support Training, welfare benefits | Win-win management fund Cash payment Training support for suppliers Welfare programs | | | |
| giowar | Value Creation | Creating future value through creativity and innovation | • Business support • Win-win culture | Discovery/nurturing of solution suppliers Performance sharing system Supplier cooperation portal Meetings with suppliers | | | |

Partner Collaboration office

Samsung SDS has established and implemented company-widepolicies to achieve win-win growth through the Partner Collaboration Office, an organization dedicated to win-win growth. Various opinions with suppliers are exchanged, and information on key business needs and win-win growth programs are provided on a regular basis.

| Partner Colla | boration office |
|---|--|
| | |
| Policy Establish cooperation plans for suppliers Collect opinions from suppliers Identify government policy | Win-win Management Develop and operate win-win management programs Improve process and system |
| | |

Shared Growth Initiative

Samsung SDS was selected as the best honorary company for shared growth by obtaining the Top Excellent grade for 5 consecutive years in 2022 Win-Win Growth Index. The index evaluates and quantifies the level of shared growth of large companies to promote shared growth between large companies and SMEs, and announced by Korean Commissions for Corporate Partnership every year. Samsung SDS vows to uphold the principles of fairness and transparency in conducting business and to create a culture of win-win partnership with suppliers.

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Shared Growth

Fair Trade Policy

In order to establish a culture of transparency and fair trade with suppliers, Samsung SDS introduced the operating standards for the 4 fair trade principles complying with relevant laws such as the Subcontract Act and making every effort to prevent unfair practices from occurring in transactions with suppliers.

4 Fair Trade Principles

1. Operate contract execution practices

Take the lead in establishing an environment for fair and rational trade and shared growth by introducing Good Contract Execution Practices of the Fair Trade Commission

2. Select and manage suppliers

Secure fairness and transparency in the criteria when partnering suppliers, and operate supplier management policies in a reasonable and transparent manner

3. Create and operate Subcontract Deliberation Committee

Comply with the fairness and legality of subcontract transactions through prior deliberation for subcontract transactions over a certain size

4. Manage issuance and preserve practices

Take the lead in establishing a fair trade order by introducing the Fair Trade Commission's Written Issuance and Preservation Practices in the process of signing subcontracts and transactions

Supplier Status

| Category | Unit | 2020 | 2021 | 2022 |
|----------------------------|----------------|---------|---------|-------------------|
| No. of suppliers | Unit | 279 | 279 | 220 ¹⁾ |
| Total purchasing amount | million KRW | 367,632 | 413,570 | 405,925 |

1) No. of suppliers reduced due to sale of Home IoT business in 2022.

Fair Trade and Contract Conclusion

Samsung SDS includes the Code of Ethical Management in all subcontracts to prevent unfair trade and fraudulent acts that may occur in the course of business with suppliers. In 2012, Samsung SDS participated in the public-private task force to improve standard subcontracting for the software business, and introduced standard subcontracting contracts recommended by the Fair Trade Commission. Samsung SDS applied the standard subcontracting contract to software(4 types), construction(4 types), and logistics(2 types) industries. In addition, electronic contract signing through smartTogether.com was introduced to prevent unfair business practices such as verbal orders and unfair order cancellations.

Improvement of Payment Conditions

To strengthen the financial soundness of the suppliers, Samsung SDS makes subcontract payments three times a month, and pay 100% in cash within 10 days on average. In addition, when a supplier requests early payment, Samsung SDS reviews the request and make an early payment.

Supplier Selection

Suppliers were selected in a fair and transparent manner by establishing standards for the selection and operation of suppliers in accordance with the 4 practices of fair trade. Samsung SDS announces the criteria and procedures for supplier selection through smartTogether.com and provides specific criteria for selection and evaluation to prevent arbitrary interpretation by suppliers.

Supplier Selection Process



Receiving feedbacks against the results and taking necessary measures to resolve the complaints

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Shared Growth

Shared Growth Activities

Samsung SDS pursues sustainable mid-to-long-term shared growth through various activities including financial support, education and technical support to strengthen suppliers' technological competitiveness, welfare benefits, and communication.

Educational Support for Suppliers

Samsung SDS offers various training programs to promote shared growth with suppliers so that they can secure technological competitiveness on and offline training programs on software and information systems are provided through muticampus, an institution that nurtures software experts. Further, customized education for each class such as core job training in the information service field and introductory training for new employees are provided free of charge.

| Tr | aining for New Employees | | Training provided by professional IT educational institutions |
|--------------------------------------|--|---------|--|
| Training interperso within the | on attitudes/roles of new employee, nal relationships/communication skills e organization, and the latest IT trends | | Provide IT-related on and offline training courses such as AI and Big Data |
| | | | |
| | Co | re lot | |
| | | | |
| Project ca with | Nurturing project manager ase studies to empower project managers the necessary skills and competencies | Le | Analysis/Design earn how to systematically analyze/design software ojects and to use Unified Modeling Language(UML) |
| Strengt Learn h esta | hening capacities for making proposals now to analyze key customer issues and blish competitive proposal strategies through practice | N tř | Latest IT trends lindset training to understand the paradigm shift of ne market in the 4th industrial revolution and apply the understanding to tasks |

COVID-19 Support

Samsung SDS provides suppliers with contact-free collaboration solutions for businesses, distributes free quarantine products, and makes early payment to help suppliers suffering from COVID-19 to overcome difficulties.

Communication with Suppliers SmartTogther.com, the Samsung SDS supplier collaboration portal, allows smooth communication including electric contract, sharing demand forecasting, policy, supplier promotion, grievance handling, etc.



SmartTogther.com

Financial Support for Suppliers(Win-win management fund)

Samsung SDS implemented a variety of financial support programs to ensure the business stability of our suppliers. Samsung SDS works with financial institutions to run Win-win management fund providing suppliers with financial supports to enhance their technological and R&D competitiveness. Also, we operate indirect financial support system(network loan) that allows suppliers to secure low-interest funds from financial institutions based on transaction performance with Samsung SDS.

| Verification of loan entity | Application for loan | Review and the grand of loan |
|--|---|------------------------------|
| Verification of Ioan (Samsung SDS, banks) | Loan consultation and preparation of loan application | Review/ approve loan |

Win-win Management Fund Status

| Category | Unit | 2020 | 2021 | 2022 |
|-----------------|-------------|--------|--------|--------|
| Amount Raised | million KRW | 60,000 | 60,000 | 60,000 |
| Amount Executed | million KRW | 45,404 | 40,843 | 51,093 |

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Shared Growth

Shared Growth Activities

Technical Support for Suppliers - Brity RPA

An Al-based task automation solution, Brity RPA provides a development environment and modules that automates repetitive and complex tasks. Samsung SDS provides Brity RPA consulting and licenses free of charge to help suppliers to improve their work productivity, and Samsung SDS will continue on providing the support.





Technical Support for Suppliers - INNOVATOR development methodology

Since 2012, Samsung SDS has provided suppliers with INNOVATOR development methodology, which standardizes business methods and procedures based on Samsung SDS' business experiences and know-hows. So far, Samsung SDS has provided 6 development methodologies contributing to the quality competitiveness of 42 suppliers.

Shared Development Methodology for Suppliers

| Category | Content |
|--|--|
| Project management | Providing overall project management methods, processes, guides, and deliverables from project initiation to implementation, control and termination to effectively manage software and system building projects |
| Information Engineering | An information technology-based methodology that analyzes, designs, and develops applications centered on data and business |
| Object Oriented | A methodology for Java-based application development through UML modeling |
| Component Based Development | A methodology that adds the process of developing and assembling reusable components based on the Object Oriented methodology |
| Building applications (package) | Providing processes and procedures for identifying and narrowing gaps between packages and customer requirements in the basic flow of Information Engineering |
| Building applications (generic agile) | Providing an approach to quickly identify, effectively implement, and validate user-centric requirements in units of short iteration cycles |

Shared Growth Support Scale

| Category | | Unit | 2020 | 2021 | 2022 |
|------------------------|--|--------|-------|-------|-------|
| Education current | No. of training programs | Unit | 65 | 63 | 131 |
| Education support | No. of trainees | Person | 2,128 | 2,195 | 3,200 |
| | Brity RPA support cases | Case | - | 4 | 7 |
| Technical support | No. of support cases for development methodology | Case | 231 | 231 | 231 |
| | No. of technical data escrow | Case | 22 | 19 | 13 |
| HR recruitment support | No. of employees hired by suppliers | Person | 69 | 101 | 125 |

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Appendix

ESG

GOVERNANCE

EC

As digital transformation accelerates in various fields, new digital technologies are emerging. Along with this, managing security risks and ethical risks associated with emerging technologies has emerged as a new challenge for businesses. Samsung SDS is taking a leading role in digital responsibility and compliance management, with a board of directors(BOD) that embodies independence, diversity, and expertise.

| Sam | Samsung SDS | | | | | | | |
|-----|-------------|-------|------|-------|------|--|--|--|
| Sus | taina | מוווס | / Re | eport | 2023 | | | |
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ESG Highlights

Social

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Corporate Governance

Board of Directors

Board Composition

Samsung SDS' Board of Directors (BOD) is composed and operated in line with applicable laws and Articles of Incorporation, ensuring transparent and independent governance.

The Chairperson of the BOD is appointed from among the directors through a resolution by the BOD, consistent with the Articles of Incorporation and the BOD Operating Regulations. At the BOD meeting in March 2021, CEO Sungwoo Hwang was appointed as Chairperson of the BOD to enhance the efficiency of the BOD's operations and decision-making.

At the 38th Annual General Meeting of Shareholders held in March 2023, four independent directors and one executive director were appointed, following recommendations by the Independent Director Recommendation Committee and the BOD. The appointment process for each director was conducted individually in accordance with relevant laws and regulations, with a particular emphasis on enhancing the fairness of the process through the separate election of one independent director as a member of the Audit Committee.

| | | | | | | Coi | mmittee within t | ne Board of Direct | ors | |
|-----------------------|----------------|--|--------|-----------------------------|--------------------|-------------------------|--|---------------------------|--|------------------|
| Category | Name | Position | Gender | Tenure | Audit Committee | Management Committee | Related Party Transactions Committee | Compensation Committee | Independent Director Recommendation Committee | ESG Committee |
| | Sungwoo Hwang | President & CEO, Board Chair | Male | Mar 17, 2021 ~ Mar 16, 2024 | | • | | | | 0 |
| Executive Director | Jung Tae Ahn | Executive VP & CFO/CRO | Male | Mar 18, 2023 ~ Mar 17, 2026 | | 0 | 0 | | 0 | |
| | Hyung Joon Koo | Executive VP & Leader of Cloud Service Business Division | Male | Mar 17, 2021 ~ Mar 16, 2024 | | 0 | | | | |
| | Hyun-Han Shin | Chair of the Audit Committee | Male | Mar 18, 2023 ~ Mar 17, 2026 | ٠ | | 0 | 0 | | 0 |
| Independent | Seung-Ah Cho | Chair of the Compensation Committee and ESG Committee | Female | Mar 18, 2023 ~ Mar 17, 2026 | 0 | | | ٠ | 0 | • |
| Director | Moo II Moon | Chair of the Related Party Transactions Committee | Male | Mar 15, 2023 ~ Mar 14, 2026 | 0 | | • | | 0 | 0 |
| | Jae Jin Lee | Chair of the Independent Director Recommendation Committee | Male | Mar 15, 2023 ~ Mar 14, 2026 | | | 0 | 0 | • | 0 |









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Board of Directors

Board Operation and Committees

The BOD holds decision-making authority over major management issues of the company such as management, governance, investment planning, and accounting financial management. It also performs monitoring and advisory roles in activities that have a significant impact on the company's management.

BOD Meeting

The BOD is convened by the chairperson in accordance with Article 33 of the Articles of Incorporation and Article 9 of the Regulations of the Board of Directors. Each director is notified of the convening details 24 hours prior to each meeting. Each director may request the chairperson to convene the BOD by delivering agendas and reasons. If the chairperson refuses to convene the BOD without justifiable reasons, the director who requested the convocation may directly convene the BOD. While the BOD meets regularly once every quarter in principle, temporary board meetings can be held whenever the need arises. In 2022, 8 board meetings were held to deliberate and decide on a total of 21 agenda items.

Board Resolution

The resolution of the BOD is made with the attendance of a majority of the enrolled directors and with the consent of a majority of the attended directors, in accordance with Article 35 of the Articles of Incorporation and Article 10 of the Regulations of the Board of Directors(unless stipulated otherwise by relevant laws). The BOD allows directors to participate in resolutions by means of communication that transmits and receives voices simultaneously. A director participating in such manner is considered as attended the BOD in person. Each director's BOD attendance, their approval/disapproval of major agenda items, and other details are disclosed in the Annual Report.

| Category | Unit | 2020 | 2021 | 2022 |
|--|------|------|------|------|
| No. of the BOD meetings | Unit | 13 | 11 | 8 |
| No. of agenda items | Unit | 29 | 28 | 21 |
| Average board meeting attendance | % | 98.1 | 97.7 | 96.4 |
| Minimum of attendance for all BOD members required | % | 85 | 85 | 85 |

Board Committees

The BOD has a total of 6 committees, as stipulated in Article 34 of the Articles of Incorporation and Article 14 of the Regulations of the Board of Directors, and delegates the authority of the BOD. The BOD enacts and stipulates regulations for committee operation through BOD resolution and stipulates details for structure, operation, and authority of each committee. The resolutions made by each committee are notified to all directors within 2 business days, and, if deemed necessary, each director may request a BOD meeting to the chairperson of the BOD within 3 business days from the date of notification. In this case, the BOD may adjudicate the resolutions made by the committee are excluded from such adjudication to guarantee the independence of the audit body.

The Roles and Composition of the Board Committees

| Management Committee | General Management, Financial Matters and Delegated Matters by the BOD Composed of 3 executive directors |
|---|--|
| Audit Committee | Auditing company's business as a whole, including its financial status Composed of 3 independent directors |
| Compensation Committee | Securing objectivity and transparency in the process of determining remuneration for directors Composed of 3 independent directors |
| ESG Committee | Creating sustainable value with various stakeholders Composed of 4 independent directors and 1 executive director(CEO) |
| Independent Director Recommendation Committee | Validation/recommendation of independent director candidates' independence, diversity, competency, etc. Composed of 3 independent directors and 1 executive director(CFO) |
| Related Party Transactions Committee | Enhancing management transparency through voluntary compliance with fair trade Composed of 3 independent directors and 1 executive director(CFO) |

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Board of Directors

Board Operation and Committees

Board Assessment and Remuneration

The remuneration of directors is within the amount approved by the General Meeting of shareholders according to the standards set by the BOD in consideration of their position and responsibilities. The amount of remuneration paid to directors and detailed payment standards are disclosed in 'Executive's Remuneration, etc.' on the Annual Report.

Board Remuneration

| Category | No. of People ¹⁾ | Total Remuneration (million KRW) | Average per-Capita Remuneration (million KRW) |
|-------------------------|-----------------------------|-------------------------------------|--|
| Registered directors | 3 | 3,854 | 1,285 |
| Independent directors | 1 | 89 | 89 |
| Audit Committee members | 3 | 257 | 86 |
| Total | 7 | 4,200 | 600 |

1) List includes directors who resigned during the current term(2 persons)

Shareholding Status

(As of December 2022)

| Category | Unit | No. of Shares |
|-------------------------------------|-------|---------------|
| Sungwoo Hwang(Executive Director) | Share | 1,000 |
| Jung Tae Ahn(Executive Director) | Share | 1,000 |
| Hyung Joon Koo(Executive Director) | Share | 1,000 |
| Hyun-Han Shin(Independent Director) | Share | 500 |

BOD Compensation Payment Criteria (including CEO)

| Category | Compensation Payment Criteria | | | | | | |
|----------------------------|---------------------------------------|---|--|--|--|--|--|
| | Salary | Compensation is determined considering the position, nature of delegated duties, and performance of delegated tasks in accordance with the Director Compensation Regulations (decided by BOD) | | | | | |
| | Lunar New Year/ Chuseok Bonus | 100% of monthly salary | | | | | |
| Registered Directors | Target Incentive | Determined by the CEO based on the achievement level of departmental targets, paid twice a year within 0 to 200% of monthly salary (adjusted according to organizational performance) | | | | | |
| | Performance Incentive | When the company's profit target is exceeded, 30% of the profit is used as a resource for the decision by the CEO, paid once a year within 0 to 50% of the base annual salary (adjusted according to individual performance) | | | | | |
| | Long-Term Performance Incentive | Determined within the director compensation limit set by the General Meeting of Shareholders, based on the comprehensive assessment of quantitative indicators (sales, pre-tax profit, stock prices, etc.) and qualitative indicators (leadership, ethical management, social contribution, company contribution, etc.) and paid in installments over 3 years | | | | | |
| | Welfare and Benefits | Benefits for executives such as health check-ups, insurance support, etc., in accordance with the Executive Compensation Regulations (decided by BOD) | | | | | |
| Independent Directors | Salary | Compensation is determined considering the nature of delegated tasks according to the Independent Director Compensation Regulations | | | | | |
| Audit Committee Members | Salary | Compensation is determined considering the nature of delegated tasks according to the Independent Director Compensation Regulations | | | | | |

Support for Independent Directors

Samsung SDS has designated a supporting department that provides necessary information and resources in order to assist independent directors in fulfilling their roles as set forth. Notably, we share and update the current status of the our management plan and business areas on a regular basis to enhance the independent directors' understanding in management activities.

| Training Date | Participants | Training Topics |
|------------------|---|---|
| July 28, 2022 | Jea-Man Yu, Hyun-Han Shin, Seung-Ah Cho | Training of internal accounting management system |
| October 19, 2022 | Hyuck Yoo, Hyun-Han Shin, Seung-Ah Cho | Overview and Introduction of Pangyo IT Campus Operations |

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Board of Directors

Enhancement of Board Independence

Samsung SDS has a majority of independent directors to ensure the independence of the Board of Directors, and operates meetings that encourage open discussions and independent decision-making. In addition, to minimize the possibility of conflicts of interest, transactions between directors and the company are restricted, and directors who have an interest in the resolution of the board are prohibited from exercising their voting rights.

Furthermore, Samsung SDS ensures fairness and independence in the process of appointing directors. The candidate pool is formed by examining factors that may affect fairness and independence such as qualifications. The BOD and the Independent Director Recommendation Committee comprehensively considers evaluation criteria for individual candidates including expertise, social recognition, and integrity, together with the business aspects.

Board Diversity and Expertise

Samsung SDS composes our board of directors with diverse expertise to enable comprehensive and strategic decision-making from a comprehensive perspective. The CEO, a leading expert in IT services field, oversees the overall business and drives responsible management as the chairperson of the BOD. Furthermore, we appoint experts with deep knowledge and experience in various fields such as law, IT, finance, and business strategy as independent directors. They provide objective management supervision and professional advice. Independent directors are limited to holding dual positions at one company to ensure their expertise and loyalty.

Samsung SDS is committed to growing alongside our diverse stakeholders and advocates for diversity factors such as gender, age, nationality, education, disability, and political affiliation in the composition of the BOD. To promote gender diversity, a new female director was appointed to the BOD in 2020.

Board Skill Matrix

| Items | Sungwoo Hwang | Jung Tae Ahn | Hyung Joon Koo | Hyun-Han Shin | Seung-Ah Cho | Moo Il Moon | Jae Jin Lee |
|-----------------|---------------|--------------|----------------|---------------|--------------|-------------|-------------|
| Board Diversity | | | | | • | | |
| Financial | | ٠ | | • | • | • | |
| Global Business | • | ٠ | • | • | • | | • |
| Leadership | • | ٠ | • | | | ٠ | • |
| Risk Management | | ٠ | | ٠ | • | ٠ | |
| Technology | • | | • | | | | • |

Independence Requirements for Independent Directors

Samsung SDS checks the eligibility of independent director candidates and incumbent independent directors based on relevant laws such as the Commercial Act, ensuring they can effectively perform the roles of supervising and counterchecking management decisions. The main criteria include:

Not being a director, executive officer, or employee involved in the company's management, or not having been so within the recent 2 years

In the case where the largest shareholder is a natural person, not being the largest shareholder, their spouse, or direct ascendants or descendants

In the case where the largest shareholder is a corporation, not being a director, auditor, executive officer, or employee of the corporation that is the largest shareholder

Not being a spouse or direct ascendant or descendant of the director, auditor, or executive officer

Not being related to the parent company or its directors, auditors, executive officers, or employees

Not being a director, auditor, executive officer, or employee of a corporation that has a significant transactional relationship or other important interests with the company

Not being a director, auditor, executive officer, or employee of another company where the company's director, executive officer, or employee is an executive director

Not serving as a director, executive officer, or auditor of more than two other companies

Not providing advisory services such as accounting audits, tax representation, or having legal or management consulting contracts with the company, including attorneys (including those affiliated with foreign law consultancies), certified public accountants, tax accountants, or other advisory service providers

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Shareholder-Friendly Management

Information Provision to Shareholders and Investors

Enhancement of Face-to-face Meetings with Investors

Samsung SDS utilized non-face-to-face meetings during the period of COVID-19 spread. However, starting from 2022, we have actively engaged in investor relations (IR) activities by conducting in-person meetings with institutional investors and participating in a total of 8 conferences hosted by securities firms.

Dissemination of Information via Samsung SDS Website and Public Disclosure System

Samsung SDS conducts quarterly performance conference calls through real-time streaming on our website, and we publish an annual Corporate Governance Report. In addition, we have newly added a FAQ menu on our company's website to help enhance shareholders' and investors' understanding of the company.

Articulation of Dividend Policy and Dividend Enhancement

3-year Dividend Policy

Samsung SDS revealed a comprehensive dividend policy for a three-year period spanning from the 2022 fiscal year through to the 2024 fiscal year (as of January 2023).

The key points of the 3-year dividend policy include raising the dividend payout ratio to 30% compared to the dividend policy baseline. (Dividend policy for the 2019 fiscal year to the 2021 fiscal year: Maintaining a dividend payout ratio of 25% or higher, maximum 30%)

Through this declaration, Samsung SDS aims to correlate our operational success with the magnitude of dividends and enhance the scope for investors' foresight.

Dividend Increase

For the 2022 fiscal year, the dividend per share has been increased by 33% to KRW 3,200 compared to the previous year's KRW 2,400 per share. The dividend payout ratio for the 2022 fiscal year is 22.5%, but when excluding one-time non-operating income and expenses, the adjusted dividend payout ratio is 30.3%.

Communication with shareholders and investors

| Category | Number of Sessions | Note | | | | | |
|-------------------|--------------------|---|-------------------------------|--|--|--|--|
| Nen Deal Readshow | 7 | 4 NDR sessions after performance announcement | | | | | |
| NON-Deal Koadshow | 7 Sessions | 3 CFO meetings | | | | | |
| | | 2 sessions for Samsung Securities | 1 session for Bank of America | | | | |
| Conformer | 9 sossions | 1 session for KB Securities | 1 session for Credit Suisse | | | | |
| Conference | 8 sessions | 1 session for Goldman Sachs | 1 session for Daiwa | | | | |
| | | 1 session for JP Morgan | | | | | |

Dividend Status

(Consolidated basis, Type of stock¹⁾: Common stock)



1) There are no other classifications of stocks such as common and preferred stock

2) The dividend payout ratio equals dividends divided by net income for controlling shareholders

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Risk Management

Risk Management

Risk Governance

Samsung SDS manages risks through the BOD, the highest decision-making body, and Risk Management Council. The council identifies and analyzes risk types for the entire organization, checks management categories and risk. management methods, presents them to the BOD, and reflects them in management strategies to respond.

Risk Management System

Monitoring frequently the risks of the roles of each Committee within the BOD, Samsung SDS is in charge of establishing and managing strategies for risk management. In addition, Samsung SDS designates CFO as the Chief Risk Officer(CRO) and holds a Risk Management Council in which relevant departments participate to share identified risk issues and establish countermeasures. The Risk Management Council establishes policies of management and response for financial risks such as market risks, credit and liquidity risks, and operational risks such as compliance, human rights, safety accidents, and environment that may occur during business operation. The council also implements related programs through the responsible department. For risks spanning across various areas, we have established a collaborative system with experts from relevant departments to efficiently address them.

| | Board of | Directors | | Audit Committee |
|---|--|--|---|---|
| Related Party Transactions Com · Compliance with la and ethics | Managen nittee Committe ws · Economic · Financial · Business | nent ESG (ee · Labo environment · Safe stability · Shar operation · Infor | Committee or/human rights ty/environment re growth rmation security | Policy/regulatory changes Accounting transparence Compliance with laws and ethics |
| | Risk Manage | ement Council | | |
| | | | | |
| | CRO | (CFO) | | |
| | Workin | g Group | | |
| Financial Management Team | Corporate Management Team | People Team | Legal Service Team | |
| Compliance Team | EHS Center | Partner Collaboration Team | Communications Team | |
| | Risk C | Owners | | |

Risk Management Procedure

Samsung SDS has institutionalized the reporting system for the BOD and the Risk Management Council to advance risk management. The Risk Management Council manages risks through materiality assessment and impact analysis of potential losses and appropriate responses, and reports material risks to the BOD and subcommittees so that they can be reflected in management strategies. Furthermore, relevant departments manage financial and non-financial risks at all stages of the business. In particular, emergent risks that occur in technology and services are immediately shared with the dedicated organization and relevant departments to counteract.

Sensitivity Analysis

Samsung SDS is enhancing our risk resilience through sensitivity analysis of key potential risks, such as global supply chain crises, climate change, exchange rate fluctuations, increasing carbon emission prices, and uncertainties in renewable energy supply.

| Strategy/Reputation Risk | | | | | | | | |
|---------------------------------|-----------------|---------------|---|-----------------|--------------------------------|--|--|--|
| Governance | Strategic Risk | Reputation | Risk | Crisis Manageme | t Sustainability Management | | | |
| Legal/Regulatory Risk | Financial F | Risk | | Operati | onal Risk | | | |
| Compliance | Exchange Rate/C | redit Risk | Internal Audit | | Third Party Risk | | | |
| Compliance Management System | Liquidity R | isk | Authentication Service | | Operational Risk | | | |
| Regulatory Response | Tax Risk | | Be | havioral Risk | IT/Data Risk | | | |
| | | Cybersecurity | v Risk | | | | | |
| | | | whoratta | ck and Socurity | | | | |
| Information Security | Privacy Prote | ection | Cyberattack and Security Risk Monitoring Vulnerability Diagno | | | | | |

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Risk Management

Risk Management by Risk Type

Emerging Risk Management

Samsung SDS seeks to respond in advance by identifying long-term emerging risks and analyzing their impact on the business.

| Emerging Risk | Details | Potential Impacts | Mitigating Actions |
|--------------------------|--|---|---|
| Technology Transition | • Risk of regulatory violations, litigation, and reputational damage due to the enactment of new laws following the commercialization of future innovative technologies such as AI and Big Data | Restriction of business area caused by the enactment of new laws or risk of litigation brought by customers against existing businesses Transparency risk to secure customer trust in relation to Al logic, etc. Risk of fatal reputation deterioration and business disruption in case of ethical issues related to new technology | AI Ethics Principles to prevent risks in advance that may occur with AI technology Ongoing monitoring of patents, relevant laws, etc., and regular operation of Risk Management Council |
| Energy Supply | The risk of inadequate energy supply for business activities due to geographical, climatic, or geopolitical factors such as increased energy demand caused by wars. | Cost risk due to rising electricity rates and power outages Shutdown risk of data center operations due to energy shortage Risk of disruption to corporate operations and business activities due to long-term energy shortage Reputation risk, including the decline in corporate image and brand value. | Exploring alternative energy supply methods such as auxiliary generators Establishment of emergency power supply systems for facilities necessary for the operation of data centers and other businesses Efforts to improve the energy efficiency of the company Collaborating with government and related organizations to seek solutions |

Financial Risk Management

Samsung SDS closely monitors and responds to factors of market, credit, and liquidity risks based on risk management policy. The Financial Management Team supervises financial risk management and establishes global financial risk management policies in cooperation with our business divisions and individual domestic and foreign companies to measure, evaluate, and hedge financial risks.

Tax Risk

As global business expands, the importance of tax risk management has been highlighted. Samsung SDS diligently fulfills our tax reporting and payment obligations in accordance with relevant regulations. Through dedicated internal departments, we identify tax risks on a country-by-country basis and formulates response policies. In addition, we contribute to the development of local communities by ensuring compliance with tax regulations and creating local job opportunities while conducting business in each country.

Foreign Exchange Risk

Due to our global operations, Samsung SDS is exposed to foreign exchange risks which may affect future business transactions, assets, and liabilities. Samsung SDS suppresses the occurrence of foreign exchange positions by prioritizing local currency transactions and by matching deposit-withdrawal currency principle. If such position is unavoidable, we are managed in accordance with applicable statutes and procedures. Samsung SDS' exchange risk management regulations include the definition, measurement cycle, managing body, and management procedures of foreign exchange risk. Foreign exchange transactions are strictly limited and speculative transactions are prohibited. In addition, Samsung SDS manages and reports foreign exchange risks on a monthly basis through a global exchange management system.

Credit Risk

Credit risk arises when counterparty fails to comply with its obligations under the terms of the contract. To manage credit risks, Samsung SDS periodically evaluates the financial credibility of counterparties in consideration of factors such as financial status and transaction histories, and accordingly sets credit limits. Credit risk also can occur in financial product transactions with financial institutions. In order to reduce such risks, we transact only with banks with high international credit ratings under the approval and supervision of the Financial Management Team.

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Risk Management

Risk Management by Risk Type

Risk Management Based on External Assessment

Samsung SDS received a score of 19.8 in the 2022 Sustainalytics ESG Risk Rating, indicating a Low Risk rating. We are committed to improving Management risks and are making efforts in that regard.



| .ow Ris | k | | |
|------------|-------|-------|--------|
| NEGL LOW | MED | HIGH | SEVERE |
| 0-10 10-20 | 20-30 | 30-40 | 40+ |

| Areas for Imp | provement | |
|------------------------------|--|--|
| Corporate | Ownership & Shareholder Rights | Disclosure of shareholder rights and poison pill plans Shareholder approval is required for the annual election of the Board of Directors and for determining the size of the BOD. |
| Governance | Remuneration | Disclosure of performance indicators or grounds for Short-Term Incentive (STI) / Long-Term Incentive (LTI) Disclosure of clawback or recovery policy |
| | Data Privacy and Security Policy | Commitment to collecting and processing user data only for stated purposes Commitment to requiring third parties sharing data to comply with company policies Commitment to the prompt notification to customers in the event of policy changes or data breaches |
| Data Privacy and Security | Data Privacy Program | Disclosure of the status of employee training on personal information protection and information security. Disclosure of regular/ad hoc inspection processes |
| | Cybersecurity Program | Disclosure of ISO 27001 certification on the website Regular external security audits or vulnerability assessments of company systems, products, and practices related to user data |
| | Discrimination Policy | \cdot Publication of employee protection clauses based on ILO conventions on the website |
| | Diversity Programs | Disclosure of organization and recruitment goals related to employee diversity, and mentoring programs Disclosure of board responsibility for diversity initiatives |
| Human | Gender Pay Equality Program | \cdot Implementation of programs related to gender pay equality |
| Capital | Gender Pay Disclosure | \cdot Disclosure of the median and average of the global gender pay gap within the company |
| | Collective Bargaining Agreements | Disclosure of the inclusion of all employees in labor negotiations agreements |
| | Human Capital Development | Disclosure of quantitative goals and risk assessments related to human capital development Disclosure of talent acquisition initiatives and open feedback systems |
| | Bribery & Corruption Policy Bribery & Corruption Programs Business Ethics Programs | Publication of corporate ethics guidelines, anti-corruption policies, and fair competition policies on the website Implementation and disclosure of the status of anti-corruption, fair competition programs, and regular ethics education Disclosure of board responsibilities for corporate ethical issues Conducting regular audits related to corruption and compliance |
| Business Ethics | Whistleblower Programs | Operation of a 24/7 anti-corruption channel in the primary languages of the countries in which the company operates, available on the website Disclosure of the number of reports received through the channel and cases of non-compliance/anti-corruption guideline violations |
| _ | Political Involvement Policy | Publication of political neutrality policy within the Code of Conduct guidelines on the website |

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Ethics Management

Principles of Ethics Management

Samsung SDS devotes our talent and technology to creating superior products and services that contribute for a better global society. To this end, we establish the Code of Conduct Guidelines according to business principles to accomplish the innate roles of an enterprise and fulfill our social responsibilities, while observing laws and ethical standards. The guidelines work as the criteria for judging the behaviors and decisions of the employees in Samsung SDS business activities.

Code of Conduct Guidelines 🔗

| Business Principles | Code of Conduct Guidelines |
|---|--|
| Compliance and Ethics | Fair competition, data protection, protection of Samsung SDS' and others' properties |
| Clean Organizational Culture | Prevention of corruption and conflict of interests |
| Respect Customers, Stakeholders, and Employees | Respect of human rights, customer and quality control, and technical innovation |
| Caring for Environment, Safety and Health | Green management, health, and safety |
| Social Responsibility as Global Corporate Citizen | Win-win philosophy and contribution to local communities |

Ethics Management Implementation Process

Samsung SDS discloses our business principles to external stakeholders and operates a whistle-blowing channel to report violations of the principles. Furthermore, we share the Employee Guidelines to encourage the employees maintaining integrity in practice. The Samsung Business Principles and the reporting channel are available in Korean and English, and the Employee Business Conduct Guidelines in 4 different languages.

Whistleblowing Channel

Samsung SDS operates an anonymous channel to report corruption on our website. The scope of the report includes reporting on illegal activities against the Fair Trade Act and the Personal Data Protection Act, as well as reports on unethical behaviors such as giving or receiving money/valuables or hospitality. A total of 57 reports were received in 2022 through global reporting channels, of which 26% were civil complaints and 30% were related to unethical behaviors. If such reports proven to be true through investigations, disciplinary measures are taken according to the severity of the violation.



Violations of Code of Conduct & Violations of Laws and Regulations

| Category | | Unit | 2020 | 2021 | 2022 |
|---|--|-------------|------|------|-------------------------|
| | Total number of reports ¹⁾ | Case | 22 | 18 | 20 |
| Violations of Code of Conduct | Number of investigations in progress among reported cases | Case | 0 | 0 | 0 |
| | Number of completed investigations among reported cases | Case | 22 | 18 | 20 |
| | Completion rate of verified cases | % | 100 | 100 | 100 |
| | Total amount of fine | million KRW | 0 | 0 | 0 |
| | Number of lawsuits filed | Case | 23 | 39 | 31 ²⁾ |
| Violation of Laws and Regulations | Number of cases related to corruption, anti-competitive practices, and security issues | Case | 0 | 0 | 0 |
| | Number of non-monetary sanctions | Case | 1 | 0 | 0 |
| | Total number of substantiated corruption & bribery cases | Case | 0 | 0 | 0 |

1) Based on Code of Conduct violations (corruption) reported through the anti-corruption channel Excludes reports transferred to other companies due to lack of relevance to Samsung SDS

2) All SDSLA labor lawsuits.

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Ethics Management

Business Ethics of Suppliers

Suppliers of Samsung SDS are to comply with all applicable laws and regulations in business activities, and Samsung SDS requires them to maintain the highest ethical standards. For this purpose, Samsung SDS includes the business ethics provisions in the Supplier Code of Conduct and defines corporate integrity, prohibition of unfair profit, intellectual property protection, identity protection, and personal information protection. The Code of Conduct and Guidelines for each provision are provided and apply to all suppliers of Samsung SDS.

Employee Ethical Awareness Enhancement Program

Through the Employee Guidelines, Samsung SDS discloses the regulation violation cases of suppliers, public funds and assets, working discipline, and information leaks. We conduct promotional activities and provide ethics management trainings on a regular basis for employees.

Compliance Management

Compliance Management Organization and Areas of Management

Samsung SDS appoints compliance officers through a resolution of the Board of Directors (BOD) and operates the Field Compliance Specialist (FCS) system under the guidance of the Compliance Team. This dedicated unit selects compliance officers and managers for each business division and compliance officers for each department to conduct autonomous compliance activities (As of March 2023, it consists of 285 members). The Compliance Team manages risks in key areas such as anti-corruption, fair trade, subcontracting, business regulation, personal information security and intellectual property, in collaboration with the responsible departments.

Compliance Management Organization

Main Management Areas





Samsung Compliance Committee

In January 2020, Samsung SDS signed an agreement with 7 major Samsung affiliates to establish the Samsung Compliance Committee in accordance with the decision made by the BOD to prevent the top management from engaging in any illegal activity, and to further strengthen compliance supervision. In January 2022, the BOD made the resolution to approve the appointment of chairperson and members of the 2nd Samsung Compliance Committee. The Committee directly reviews Samsung SDS' external sponsorship expenditure and internal transaction issues and presents its independent opinion to the BOD. In addition, the Committee makes recommendations to improve the effectiveness of our compliance system based on the review.

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| | | | | | | | |

Compliance Management

Compliance Management System and Process

In order to comply with laws and ethics and fulfill corporate social responsibilities in corporate activities, Samsung SDS has established and operates the Code of Conduct Guidelines that set our business principles and details. In addition, relevant detailed policies have been established and operated to comply with fair trade and anti-corruption. Samsung SDS establishes and operates the compliance operation regulations that set Samsung SDS' compliance control standards and related details through a resolution of the BOD. Situation-specific manuals are also provided for employees to easily understand major laws and regulations when conducting their work. To form compliance management organizational culture, various compliance related activities from planning to improvement are continuously carried out.

Compliance Management System



Compliance Management Process



Various Deliberative Committees to Ensure Compliance

In accordance with relevant internal and external regulations, Samsung SDS operates deliberative committees comprised of executives and related individuals to assess the practical appropriateness of internal transactions between affiliates and external sponsorships. In 2022, Samsung SDS held a total of 67 meetings.

| Category | Contents | Number of Cases Reviewed |
|---|---|-----------------------------|
| Related Party Transactions Committee | Deliberation of reasons for transactions and adequacy of compensation for large-scale internal transactions | 8 |
| External Sponsorship Preliminary Review Committee | Reviewing the purpose of external sponsorship funds, and verifying the previous sponsorship purpose and actual usage if the sponsorship is continuous | 21 |
| Affiliate Transactions Preliminary Review Committee | Reasons for selecting affiliates, confirmation of the adequacy of consideration, etc. | 7 |
| Subcontract Transaction Review Committee | Obligation to issue written documents, use of standard subcontract contracts, determination of unreasonable subcontract prices, confirmation of prior approval for subcontracting, etc. | 31 |

Compliance Council Operating Process

In compliance with the Act on Collection and Use of Donations, external sponsorships are substantively judged, regardless of their form, with transparency ensured through verification by the deliberative body according to the sponsorship amount. Specifically, in May 2022, we tightened control over external sponsorships to ensure that the actual sponsorship funds were used in alignment with the intended purpose of existing sponsorships while conducting preliminary deliberations. Samsung SDS' Anti-Corruption Policy¹ specifies compliance principles prohibiting the improper acceptance of money and goods, external sponsorships, and political contributions. Specifically, the policy sets out the criteria and deliberation process for external sponsorships and mandates that all records related to such sponsorships must be maintained.

 Samsung SDS has established an Anti-Corruption Policy as a compliance guideline, which is disclosed on Samsung SDS' website. This policy applies to all company employees, including those at domestic and overseas subsidiaries, and all individuals and organizations doing business with Samsung SDS are expected to comply with this policy.

External Sponsorship Funds Review Process



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Compliance Management

CPMS(Compliance Program Management System)

CPMS, a compliance management platform, has been established and operated to support employees' regular compliance activities. For employees to become familiar with compliance matters, CPMS provides information such as compliance management-related operating system, guidelines, latest trends, FAQs, etc. In particular, Samsung SDS operates 'My Compliance Index Program', which indicates the level of compliance activities within the system for all employees to encourage and help them recognize the importance of compliance.

| ATA | | | SDS 👻 | 김삼성 님 환영[| | | | | Q |
|--|-------------------------|-------------|--------------------|-----------|-----------|---------|--------------|---------|----------|
| CPMs Compliance Program Management System | Compl | iance Prog | gram 뉴스/소식 | 임직원준 | 섭활동 | 상황별 | 가이드 | 킨민 | ≛Library |
| 집삼성 CL2(Professional) Compliance띰 | 나의 여 | PMS 활동 | 통내역 | | | | | | [1859] |
| 의 Compliance 지수 🔞 | 김삼성 | 님의 2023년 | 朝期 Compliance利益等 | | | 94 | | 활동내역 | |
| 173 | 173점 | (Junior)입니 | 다. | | ▽기준보기 | 128 | 문감인 | 0\$1 | 0정 |
| and Castley | | | | | | 010 | 26 | 1회5H | 100점 |
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| 18년 5회 이상 대원성 | | | | M | | *문의 및 | 제안 : | 0건 등록 | 0정 |
| R 2회 이상 미열성 | | | | Y 🛔 | 1.1.1 | * CPMS | 2 <u>1</u> | 322회 조회 | 50점 |
| 1101 Compliance (85/1191) | | | | Y 12 🗌 | 1996 | * 전년도 (| Compliance X | 10 | 23점 |
| 4-1 companies 28-4-4 | | | | | 1.15 | *L/9 0 | npliance 지수 | | 173점 |
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| Ay Compliance | 8 | eginner | Junior | Senior | Principal | _ | | | _ |
| 나의 Compliance 활동내역 > | | | | | | | | 3 | 전서악하기) |
| | 조회연 | <u>5.</u> 2 | 023년 ¥ | | | | | | |
| 주하는 절문을 Compliance 팀에 찾아보세요! 문의하세요! | • 나의 : | 2육 실적 | | | | | | | |
| - M | 표시는 | 필수교육입니 | -102. | | | | | | |
| 매뉴얼에서 위법리스크를 | No | 관리항목 | 교육명 | | 교육형태 | 시간 | 교육기간 | } | 진행 |
| 확인해보세요! 체보하세요! | 1 | | 2023년 FCS 양성 교육(추기 | 입과) | 집한 | SH | 02/22-02 | 22 | 수료 |
| | T L LOL I | | | | | | | | more> |
| | | | | | | | | | |

Law Bot

Samsung SDS operates a chatbot to enable employees to access guidelines on laws and processes related to company business from anywhere and at any time. We also actively utilize various compliance activities targeting all employees, such as compliance pledges, training, and providing guidance on major violations.



Compliance Violation Reporting Channel

Multiple external and internal reporting channels such as the website, Compliance Management Platform System(CPMS), and hotline are being operated so that compliance violations can be reported on a regular basis.

Commitment to Compliance

Every year, the management, including the CEO, expresses their will to abide by compliance. All executives and employees sign the Employee Compliance Pledge, which stipulates faithful compliance to work-related statutes, ethical obligations, and social responsibilities.

CEO's Message

Declaration 준법경영 CEO Message g 준법 및 윤리경영을 위한 원직원 이러분, 안녕하십니지? 임직원 실천 서약서 료로보 김제 위기 및 Govid-19의 여파로 여러운 상황 속에서도 법과 현점을 준수하여 각자의 지익에서 같은 바 업무를 수행하고 계시는 팀직원 여러분에 깊은 감사의 말씀을 드립니다. 문인은 삼성해스디에스의 대표이사로서 삼성인의 사고와 행동기준이 지는 「삼성 경영원적」중 법과 흘리 준수 의무에 따라 다음 내용을 무리 회사는 클라푸드 사업을 비붓한 세도운 사업 영역을 가격하고, 디일 사업 수주를 확대하는 등 대외 경령박을 갖추기 위하여 끊었었는 5 작년 한 해 역대 최고 미술을 기목하는 성과를 이루어냈습니다. 실전할 것을 서약합니다 그러나 글로벌 전체 위기가 차산 증인 상황에서 올랫폼 비즈니스, 클러우드 사비스 등에 대한 세료한 국제가 예상되며, (T물류 산업 분야에 대한 공장가대, 티드를 접구 및 양성대원, 가영장파트로, 가영동에 두 아프라마 세점도 관취되고 있거 국내의 시업 수행에 아리움이 예상됩니다. 첫째, 「삼성 경영원칙」과 준법경영 관련 회사금정을 숙지하고 이를 반드시 준수하겠습니다 다양 같이, 시시기가 전해하는 경영 통관 속에서 우리 회사가 다른 단단한 사업 수업의 가간을 미친부가 뒤에이 들었한 관점 회원은 "같과 원칙적 순수 있다. 그고리 온 역 회사의 Complexion Programe을 이런한 광양 원칙을 실선하기 위한 구세적인 기준과 철치를 제시하고있습니다. 등해, 업무 관련 국내의 법규를 숙지 및 준수하며 법규 및 회사국경에 위반되는 행위를 하거나 이를 지시, 승인, 방조 또는 국인하지 않겠습니다. 또된, 사업 수행과 관련된 구체적인 Completion 규제 사용은 번드시 시전이 확인하고 준수하여야 합니다. 셋째, 정리과 성실을 기본으로 공과 사를 업리히 구분하고 다음과, 영상적인 업무수별 과장에서 부자불식간에 발생할 수 있는 Complexee Rek를 영속의 인식하고, 예정리기 위해 편찮고 자료 교육과 점검 등 준빈 훌륭을 더욱 복업계 친가하는 것이 필요합니다. 한 차원 높은 도덕적 의무와 사회적 책임을 실천함으로써 준법문화를 구축하는데 앞장서겠습니다. STEEL OF BRIDE 장기 내용을 충분히 숙지하였음을 확인하고 서명합니다. 사업 수황과 관련하여 제반 법과 규정을 준수하고 자율적인 준법 문화가 확산들 수 있도록 상시적인 유명에 한국 동차에서 주시기 비행니다. કે + + + formigen 감사합니다 2023년 3월 15일

Employee's Compliance

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Compliance Training

Samsung SDS provides training courses for all employees(including part-time) to adhere with regulations and company compliance guidelines. In 2022, a total of 151 training sessions were conducted on an annual basis at the headquarters, with a cumulative total of 30,955 participants completing the training.

| Category | Target | No. of Courses | Participants |
|-------------|-----------------------------------|-----------------------|--------------|
| | All employees | 2(once per half year) | 22,805 |
| General | Executive Completion Rate(%): 100 | | |
| | Employee completion rate(%): 100 | | |
| High risk | Employees in charge of compliance | 54 | 5,900 |
| Executives | Executives | 10 | 164 |
| Entry level | New employees | 9 | 267 |
| Others | Self-training by department | 76 | 1,819 |

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Compliance Management

Strengthening Field Activities of Field Compliance Specialists (FCS)

Samsung SDS consistently enhances the activities of FCSs, who play an autonomous role in supporting field compliance activities, in order to recognize potential legal violation risks and prevent unsuspected compliance risks. Emphasis is placed on educating the FCS and providing support to ensure that compliance activities are closely integrated with employees' work processes, including training and pre-inspection through the FCS and promoting a culture of compliance.

FCS Field Activities



Compliance Activities for Overseas Subsidiaries

Samsung SDS' overseas IT and logistics subsidiaries employ the same compliance management system as the headquarters, establishing Business Conduct Guidelines and implementing detailed policies on key management items such as fair trade and corruption prevention. Furthermore, we also implements compliance programs such as executive commitment to compliance and compliance training for employees. These programs are supported through G-CPMS, a compliance management platform. Employees can access various information such as laws and regulations, policies, latest trends, and FAQs through the CPMS, and participate in compliance activities through inquiries, responses, self-checks, and reports.

Legal Risk Assessment and Monitoring

Samsung SDS carries out legal risk assessments and inspection activities across all business sites, focusing on key management areas. The purpose of these actions is to identify and enhance compliance-related risks and to undertake improvement activities based on the findings. Through these risk assessment activities, Samsung SDS identifies legal risks in the sectors of anti-corruption and fair trade. These risks are categorized via on-site interviews and risk assessments, after which Samsung SDS establishes and enforces measures to control potential risks. Furthermore, Samsung SDS conducts legal risk inspection activities to discern improvements in risk factors associated with the Subcontracting Act, Mutually Beneficial Cooperation Act. This is done while considering the significant business characteristics of collaboration with suppliers, and promoting remedial actions such as education, providing guidelines, and process enhancement.

Compliance Evaluation System

Samsung SDS operates a compliance evaluation system, acknowledging the importance of adherence to rules. It encourages preventive activities by reflecting the compliance activities and violations of employees in the evaluation of organizations and executives.

CP Award for Employees

Samsung SDS operates an employee award system, adhering to the Compliance Control Standards and Compliance Operating Regulations. Each year, exemplary employees are selected and rewarded to motivate compliance activities and to disseminate and apply best practices. In 2022, a total of six outstanding employees were chosen and honored.

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Information Security System

Samsung SDS has an information security system that covers security policy establishment, security check, security system management, workplace security, and security incident response. Samsung SDS' information security system meets global security standards and is proven through various domestic and international certifications. We will continue to make efforts to securely protect our information assets from various forms of internal and external security threats, ensuring business continuity and sustainability. We discloses details related to information security on our website.

Purpose of Information Security



Networks / Servers / Applications

Information Security Status Disclosure

In compliance with the Act on the Promotion of Information Security Industry, Samsung SDS has been disclosing information security measures since 2022, providing users with accurate information on investment status, manpower, certification, and activities related to information technology and information security. Information regarding the disclosure of information security can be found on the information security disclosure portal of the Korea Internet & Security Agency (KISA).



Information Security Verification System

Samsung SDS manages a security verification system to systematically verify and improve security vulnerabilities in our products and systems. Furthermore, we operates an internal security portal to assist employees in self-assessment and improvement.

Information Security Verification Process & Details

| Category | Details | Responsible Department | Timeline |
|--------------------------------------|--|--|--|
| Integrated Support Meeting | Confirm the targets for security check and provide guidance Provide guidance referring to security requirements/design checklists Design check & schedule out the final security verifcation | Quality Control/ Development/Security Verification teams | When development plans set |
| Request for Security Verification | Request security verification Conduct self-check to define security requirements | Development teams | After integrated support meeting |
| Security System Check | \cdot Check that security conditions meet the criteria on the design checklist | Development/Security Verification teams | During interim checks |
| Preliminary Security Design Check | Conduct security checks on the source code and take measures Conduct security checks on the open source and take measures | Development teams | Before requesting security verifications |
| Final Security Verification | Verify the check results of the source code Verify the check results of the open source Perform mock attacks(WEB, mobile, others) Perform infrastructure checks(server, DBMS, network, WEB, WAS) Perform security checks for personal information Perform security checks for Cloud | Security Verification teams | Before deliberating on release |
| Notification of Results | Notify the results of security verification | Security Verification teams | When the security verification completes |

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Information Security System

Certifications of Global Information Security System

Samsung SDS obtained ISO 27001 certification, an international standard for the establishment, implementation, maintenance, and management of information security management systems, in 2006 and has maintained it since then. In 2013, we also obtained domestic certification for Information Security Management System (ISMS). In 2018, we achieved international certification for Cloud Security(ISO 27017), followed by Public Cloud Security Assurance Program(CSAP) certification in 2019. In 2020, we obtained certifications for International Cloud Service Information Protection(ISO 27018), Cloud Controls Matrix-based Maturity Level Assessment(CSA STAR), Healthcare Information Security(ISO 27799), and Supply Chain Security Management System(ISO 28000) and has maintained them since then. In 2022, we also obtained certification for Information Protection Management System(ISMS-P), further strengthening its information security management system to meet global advanced standards.



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Information Security Improvement Activities

Samsung SDS is continuously carrying out security innovation activities that incorporate new technologies, such as Blockchain and AI, to respond effectively to evolving security threats. Furthermore, based on the expertise and experience accumulated over the years, Samsung SDS has systematized and utilized the security monitoring method in all areas.

Implementation of a Zero Trust Security System

Samsung SDS is implementing a Zero Trust security system to respond to changes in the corporate work environment, such as the expansion of new businesses using the public cloud and Software as a Service (SaaS), as well as the increase in remote work. We are continuously refining the access control, authentication, and authorization management policies of our internal systems to grant minimal permissions without trust, and by multifactor verification of the access environment of users and systems. Consequently, Samsung SDS is continuously identifying and implementing improvement tasks to respond to changes in the security paradigm, such as developing an integrated authentication system based on multifactor verification, integrated authority management based on Identity Access Management (IAM), and network access control based on Software-Defined Networking (SDN).

Systematic and Continuous Security Checks

Samsung SDS not only systematically manages checklists for each area to manage customer information systems, prevent security incidents, and enhance security reliability, but we also research and discover checklists for new technologies and conducts ongoing security checks at least twice a year.

| Category | Area | Detail | No. of items |
|------------------------|-----------------------|--|--------------|
| | Security Policy | Security regulations and compliance | 7 |
| | Security Organization | Organizational structure and job capacity | 10 |
| Management Security | Awareness | Training for employees and suppliers | 5 |
| | Disciplinary Actions | Incident reporting system in case of breach | 11 |
| | Physical Security | Device in/out control, access control | 11 |
| | PC | Password settings, Managing updates | 13 |
| | Application | Authentication bypass, Encryption | 62 |
| IT Socurity | Database | Permission management, Logging settings | 16 |
| 11 Security | Server | Account management, Access control | 40 |
| | Network | Network Policy Management, Network Segregation | 68 |
| | Cloud | IAM management, COMPUTE security settings | 103 |

Security Innovation Based on New Technologies

Samsung SDS continually identifies and implements improvement tasks to respond to security vulnerabilities and threats identified through security inspection activities and analysis of internal and external security issues.

Major Security Improvement Activities

Established an information protection pledge system using blockchain technology (2020) Established and monitored an untact (contactless) security inspection system (2020) Automatic security vulnerability inspected using robotic process automation (RPA) technology (2021)

- Established an automatic detection system for open source intelligence (OSINT) based on big data (2022)

Cloud Security

In response to the rapidly evolving business environment, Samsung SDS has established an optimized cloud work environment based on the Samsung Cloud Platform (SCP) to secure new competitiveness through cloud-based digital transformation. Acting as a cloud service provider (CSP) and cloud management service provider (MSP), we conduct various activities to ensure a robust cloud security system. Samsung SDS prioritizes the introduction of an SCP-based Identity Access Management (IAM) solution, or Single ID, the development of various Software as a Service (SaaS)-type endpoint security solutions, and the automation of malware detection and security measures leveraging artificial intelligence and machine learning. Owing to these efforts, Samsung SDS' cloud security capabilities have gained international recognition, receiving accolades such as the Security Company of the Year from Frost & Sullivan for three consecutive years (2020-2022). In 2022, we were recognized as a major player in the worldwide cloud security services market by IDC, as reported in their IDC MarketScape Cloud Security Services Report.

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Security Incidents Prevention and Response

Employee Information Security Training

Samsung SDS conducts on/offline training to raise employees' awareness of information security. Different security trainings are provided such as general training for all employees, training for new/experienced employees, training for developers and security staffs, and security certification preparation training to enhance security capabilities. Security training for suppliers is also provided on a regular basis.

Employee Information Security Training

| Training | Trainees | Benefits | |
|---|-------------------------------|--|--|
| Information Security training for all employees | All employees | Prevention of security incidents | |
| Information Security training for new/experienced employees | Newly hired employees | Securing basic awareness of information security | |
| Information Security training for suppliers | Suppliers | Raising awareness of information security of suppliers | |
| Project security training | Project personnel | Gaining awareness of project security compliance | |
| Anti-hacking training for web/ mobile and systems | Developers and security staff | Securing mock hacking capabilities | |
| Security certification preparation training | Developers and security staff | Securing competence for security certifications | |

Mock Drills for Malicious Emails

Samsung SDS conducts regular malicious email simulation training for all employees to prevent infection with malicious codes and to raise awareness among employees. In 2022, a total of 6 training sessions were performed, recording an average infection risk rate of 0.5%, and the infection risk rate is decreasing every year.

Security Management System

Samsung SDS has established a 24/7 security control system that monitors and responds to risks that threaten customer IT system security such as external intrusion attempts and data leaks.



Information Security

| Category | Unit | 2020 | 2021 | 2022 |
|--|-------------|------|------|------|
| IT security breaches | Case | 0 | 0 | 0 |
| Total number of data leak incidents | Case | 0 | 0 | 0 |
| Total number of customers affected by data leaks | Person | 0 | 0 | 0 |
| Total amount of fines/penalties paid | million KRW | 0 | 0 | 0 |

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ESG Data

Financial/Governance

Financial Performance

| Category | | Unit | 2020 | 2021 | 2022 |
|---------------|-------------------|-------------|------------|------------|------------|
| | Sales | million KRW | 11,017,432 | 13,630,002 | 17,234,750 |
| | Operating profit | million KRW | 871,618 | 808,098 | 916,074 |
| Consolidated | Net income | million KRW | 452,909 | 633,381 | 1,130,013 |
| | Total liabilities | million KRW | 2,295,811 | 3,073,731 | 3,485,455 |
| | Total assets | million KRW | 9,154,919 | 10,517,432 | 11,952,425 |
| | Sales | million KRW | 4,549,427 | 4,985,713 | 5,174,554 |
| NL P | Operating profit | million KRW | 582,117 | 406,734 | 296,153 |
| Non-consoli- | Net income | million KRW | 266,592 | 327,599 | 530,146 |
| ualeu | Total liabilities | million KRW | 993,400 | 1,236,281 | 1,614,218 |
| | Total assets | million KRW | 6,510,161 | 6,850,930 | 7,628,899 |
| Credit rating | Korea rating | | AA+ | A1 | A1 |
| | Moody's | | A1 | A1 | A1 |

Eco-friendly Sales(Green Revenue)

| Category | | Unit | 2022 |
|----------------------------|---------|-------------|----------|
| | Revenue | billion KRW | 17,234.8 |
| Total | CAPEX | billion KRW | 671.0 |
| | OPEX | billion KRW | 16,318.7 |
| | Revenue | billion KRW | 1,084.3 |
| Cloud ¹⁾ | CAPEX | billion KRW | 495.3 |
| | OPEX | billion KRW | 908.5 |
| | Revenue | billion KRW | 108.3 |
| Nexplant FMS ²⁾ | CAPEX | billion KRW | 0 |
| | OPEX | billion KRW | 103.1 |
| A | Revenue | billion KRW | 78.4 |
| (Video conferencing) | CAPEX | billion KRW | 0 |
| (video coniciencing) | OPEX | billion KRW | 49.8 |

 Cloud includes MSP, CSP, and SaaS. (Meeting is included in SaaS, but excluded from Cloud to avoid duplication and calculated separately)
 Nexplant FMS(Facility Management System): A solution that optimizes building operations through efficient integrated management of various facilities in a building and reduces energy and operating costs

Tax Obligation

| Category | Unit | 2020 | 2021 | 2022 |
|---------------------|-------------|---------|---------|-----------|
| Earnings before tax | million KRW | 886,118 | 857,542 | 1,132,080 |
| Reported taxes | million KRW | 433,209 | 224,160 | 2,068 |
| Tax adjustment | million KRW | - | - | -163,937 |
| Effective tax rate | % | 48.89 | 26.14 | 0.18 |
| Cash taxes paid | KRW | 213,271 | 188,515 | 271,934 |
| Cash tax rate | % | 24 | 22 | 24 |

Share and Dividend

| Category | | Unit | 2020 | 2021 | 2022 |
|----------|----------------------------------|-------------|------------|------------|------------|
| Stock | Issued shares | Share | 77,377,800 | 77,377,800 | 77,377,800 |
| | No. of shares with voting rights | Share | 77,350,186 | 77,350,186 | 77,350,186 |
| | Voting rights per share | ea | 1 | 1 | 1 |
| Dividend | Total dividends | million KRW | 185,640 | 185,640 | 247,521 |
| | Dividend payout ratio | % | 41.9 | 30.4 | 22.5 |
| | Stock dividend | KRW | 2,400 | 2,400 | 3,200 |

Economic Value Distribution

| Category | | Unit | 2020 | 2021 | 2022 |
|--------------------------------|---------------------|-------------|-----------|-----------|-----------|
| Freedow . | Wages | million KRW | 1,937,121 | 2,245,856 | 2,447,405 |
| Employee | Welfare and benefit | million KRW | 398,738 | 413,123 | 461,296 |
| Suppliers | Purchase | million KRW | 1,534,602 | 1,710,044 | 1,889,335 |
| Characterization of the second | Dividend | million KRW | 185,640 | 185,640 | 247,521 |
| Shareholders | Interest | million KRW | 16,360 | 17,649 | 28,811 |
| Government | Corporate tax | million KRW | 433,209 | 224,160 | 2,067 |
| Local community | Donation | million KRW | 5,160 | 2,701 | 2,837 |
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Financial/Governance

R&D Investment

| Category | Unit | 2020 | 2021 | 2022 |
|----------------------------------|-------------|-----------|-----------|-----------|
| R&D Expenditure | million KRW | 131,383 | 159,625 | 198,505 |
| Sales (IT services) | million KRW | 5,314,450 | 5,637,197 | 5,968,194 |
| R&D expenditure against sales | % | 2.5 | 2.8 | 3.9 |
| Patent registrations(cumulative) | Case | 1,717 | 1,846 | 2,001 |

Contributions & Other Spending

| Category | Unit | 2020 | 2021 | 2022 |
|--|-------------|------|------|------|
| Lobbying, interest representation or similar | million KRW | 0 | 0 | 0 |
| Local, regional or national political campaigns/organizations/candidates ¹⁾ | million KRW | 0 | 0 | 0 |
| Trade associations or tax-exempt groups (e.g. think tanks) ²⁾ | million KRW | 319 | 352 | 484 |
| Other(e.g. spending related to ballot measures or referendums) | million KRW | 0 | 0 | 0 |
| Total contributions and other spending | million KRW | 319 | 352 | 484 |
| Data coverage | % | 100 | 100 | 100 |

 As of Political Funds Act, Samsung SDS also does not provide funds for political contributions. (Every foreigner, corporation or organization both at home and abroad shall be prohibited from contributing any political funds. - Political Funds Act, Article 31)
 Registration fees for individual industry associations are included.

* Samsung SDS continuously reviews and manages our global initiatives and association activities in the context of climate change. All associations we join are monitored for violations of the Paris Agreement, and this applies to all of our operations. As of December 2022, we are not a member of any associations that are in material breach of the Paris Agreement.

CEO Remuneration

| Category | Unit | 2020 | 2021 | 2022 |
|------------------------|-------------|---------------------|-------|-------|
| Total CEO remuneration | million KRW | 5,731 ¹⁾ | 1,393 | 1,338 |

1) Include retirement income for former CEO

Board Remuneration

| Category | No. of People ¹⁾ | Total Remuneration (million KRW) | Average per-Capita Remuneration (million KRW) |
|-------------------------|-----------------------------|-------------------------------------|--|
| Registered directors | 3 | 3,854 | 1,285 |
| Independent directors | 1 | 89 | 89 |
| Audit committee members | 3 | 257 | 86 |
| Total | 7 | 4,200 | 600 |

1) List includes directors who resigned during the current term(2 persons)

Board Resolution

| Category | Unit | 2020 | 2021 | 2022 |
|--|------|------|------|------|
| No. of the BOD meetings | Unit | 13 | 11 | 8 |
| No. of agenda items | Unit | 29 | 28 | 21 |
| Average board meeting attendance | % | 98.1 | 97.7 | 96.4 |
| Minimum of attendance for all BOD members required | % | 85 | 85 | 85 |

Board shareholding status

(As of December 2022)

| Category | Unit | No. of Shares |
|-------------------------------------|-------|---------------|
| Sungwoo Hwang(executive director) | Share | 1,000 |
| Jung Tae Ahn(executive director) | Share | 1,000 |
| Hyung Joon Koo(executive director) | Share | 1,000 |
| Hyun-Han Shin(independent director) | Share | 500 |

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Financial/Governance

Violations of Code of Conduct & Violations of Laws and Regulations

| Category | | Unit | 2020 | 2021 | 2022 |
|--------------------------|--|-------------|------|------|-------------------------|
| | Total number of reports ¹⁾ | Case | 22 | 18 | 20 |
| Violations | Number of investigations in progress among reported cases | Case | 0 | 0 | 0 |
| conduct | Number of completed investigations among reported cases | Case | 22 | 18 | 20 |
| conduct | Completion rate of verified cases | % | 100 | 100 | 100 |
| Violation of | Total amount of fine | million KRW | 0 | 0 | 0 |
| | Number of lawsuits filed | Case | 23 | 39 | 31 ²⁾ |
| Violation of laws and | Number of cases related to corruption, anti-competitive practices, and security issues | Case | 0 | 0 | 0 |
| regulations | Number of non-monetary sanctions | Case | 1 | 0 | 0 |
| | Total number of substantiated corruption & bribery cases | Case | 0 | 0 | 0 |

Based on Code of Conduct violations (corruption) reported through the anti-corruption channel Excludes reports transferred to other companies due to lack of relevance to Samsung SDS
 All SDSLA labor lawsuits.

Whistleblowing Channel Report

| Category | Unit | 2020 | 2021 | 2022 |
|------------|------|------|------|------|
| Fraud | % | 32 | 29 | 30 |
| Complaints | % | 32 | 18 | 26 |
| Other | % | 36 | 53 | 44 |

Compliance Training

| Training | Target | No. of courses | Participants |
|-------------|-----------------------------------|-----------------------|--------------|
| | All employees | 2(once per half year) | 22,805 |
| General | Executive Completion Rate(%): 100 | | |
| | Employee completion rate(%): 100 | | |
| High risk | Employees in charge of compliance | 54 | 5,900 |
| Executives | Executives | 10 | 164 |
| Entry level | New employees | 9 | 267 |
| Others | Self-training by department | 76 | 1,819 |

Privacy Management Status

| Category | Unit | 2020 | 2021 | 2022 |
|--|------|------|------|------|
| Number of data breaches/incidents | Case | 0 | 0 | 0 |
| Number of complaints received via external agencies | Case | 0 | 0 | 0 |
| Number of complaints received via regulatory bodies | Case | 0 | 0 | 0 |
| Number of requests of user data and information from the government and law enforcement agencies | Time | 47 | 45 | 47 |
| Rate of submission of data/information requested | % | 100 | 100 | 100 |
| Number of cases of user information usages for secondary purposes | Unit | 0 | 0 | 0 |

Information Security

| Category | Unit | 2020 | 2021 | 2022 |
|--|-------------|------|------|------|
| IT security breaches | Case | 0 | 0 | 0 |
| Total number of data leak incidents | Case | 0 | 0 | 0 |
| Total number of customers affected by data leaks | Person | 0 | 0 | 0 |
| Total amount of fines/penalties paid | million KRW | 0 | 0 | 0 |

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Social

Employee Status

| Category | | Unit | 2020 | 2021 | 2022 |
|---------------------------------|---------------|--------|--------|--------|--------|
| | Total | Person | 23,740 | 24,779 | 26,236 |
| No. of | Male | Person | 16,994 | 17,534 | 18,201 |
| employees | Female | Person | 6,746 | 7,245 | 8,035 |
| | Total | Person | 16,277 | 15,836 | 15,392 |
| Domestic | Male | Person | 12,139 | 11,743 | 11,272 |
| | Female | Person | 4,138 | 4,093 | 4,120 |
| | Total | Person | 7,463 | 8,943 | 10,844 |
| Overseas | Male | Person | 4,855 | 5,791 | 6,929 |
| | Female | Person | 2,608 | 3,152 | 3,915 |
| FTF | Total | Person | 22,908 | 23,532 | 25,040 |
| FIE | Ratio | % | 96.5 | 95.0 | 95.4 |
| NI ETE | Total | Person | 832 | 1,247 | 1,196 |
| NON-FIE | Ratio | % | 3.5 | 5.0 | 4.6 |
| | Under 30 | Person | 2,927 | 2,392 | 3,516 |
| | | % | 12.3 | 9.7 | 13.4 |
| Duara | Between 30-50 | Person | 18,736 | 19,586 | 19,596 |
| by age | | % | 78.9 | 79.0 | 74.7 |
| | 0 | Person | 2,077 | 2,801 | 3,124 |
| | Over 50 | % | 8.7 | 11.3 | 11.9 |
| | Total | Person | 8,144 | 7,802 | 8,463 |
| Junior manager ¹⁾ | Male | Person | 4,944 | 4,674 | 5,064 |
| manager | Female | Person | 3,200 | 3,128 | 3,399 |
| | Total | Person | 13,520 | 14,261 | 14,817 |
| Manager | Male | Person | 10,690 | 11,061 | 11,229 |
| | Female | Person | 2,830 | 3,200 | 3,588 |
| | Total | Person | 153 | 152 | 149 |
| Executives | Male | Person | 136 | 134 | 137 |
| | Female | Person | 17 | 18 | 12 |

Workforce Breakdown by Region

| Category | | Unit | 2022 |
|---------------------|-----------------------------------|--------|--------|
| | No. of employees | Person | 15,392 |
| Varias | Ratio of all employees | % | 58.7 |
| Korea | No. of all managers ¹⁾ | Person | 14,920 |
| | Ratio of all managers | % | 64.1 |
| | No. of employees | Person | 1,950 |
| China | Ratio of all employees | % | 7.4 |
| China | No. of all managers | Person | 1,917 |
| | Ratio of all managers | % | 8.2 |
| | No. of employees | Person | 1,407 |
| Middle East/Africa/ | Ratio of all employees | % | 5.4 |
| Southwest Asia | No. of all managers | Person | 1,369 |
| | Ratio of all managers | % | 5.9 |
| Southeast Asia | No. of employees | Person | 2,977 |
| | Ratio of all employees | % | 11.3 |
| | No. of all managers | Person | 2,626 |
| | Ratio of all managers | % | 11.3 |
| | No. of employees | Person | 2,376 |
| Latin America | Ratio of all employees | % | 9.1 |
| Laun America | No. of all managers | Person | 953 |
| | Ratio of all managers | % | 4.1 |
| | No. of employees | Person | 879 |
| North America | Ratio of all employees | % | 3.4 |
| North America | No. of all managers | Person | 697 |
| | Ratio of all managers | % | 3.0 |
| | No. of employees | Person | 1,255 |
| | Ratio of all employees | % | 4.8 |
| Europe/CIS | No. of all managers | Person | 798 |
| | Ratio of all managers | % | 3.4 |
| | | | |

1) As per the internal grading system, junior manager corresponds to CL2, while manager is classified as CL3 and CL4.

1) All managers: the sum of junior managers(CL2) and managers(CL3, CL4)

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Social

Global Hiring Status

| Category | Unit | 2021 | 2022 |
|--|--------|-------|-------|
| Total no. of new employees hires | Person | 3,675 | 4,949 |
| Percentage of open positions filled by internal candidates(internal hires) | % | - | 17 |

Recruitment of the Socially Disadvantaged

| Category | Unit | 2020 | 2021 | 2022 ¹⁾ |
|--------------------------|--------|------|------|---------------------------|
| Deeple with disabilities | Person | 413 | 407 | 492 |
| People with disabilities | % | 1.77 | 1.70 | 1.88 |
| National veterans | Person | 185 | 180 | 193 |

1) Include subsidiaries and overseas subsidiaries data starting in 2022

Female Employee Status

| Category | Unit | 2020 | 2021 | 2022 |
|---|------|------|------|------|
| Ratio of female employees | % | 28.4 | 29.2 | 30.6 |
| Ratio of female junior managers ¹⁾ | % | 39.3 | 40.1 | 40.2 |
| Ratio of female managers | % | 20.9 | 22.4 | 24.2 |
| Ratio of female executives | % | 11.1 | 11.8 | 8.1 |
| Ratio of female employees in STEM | % | 22.7 | 22.5 | 22.8 |
| Ratio of female managers in charge of sales/revenue | % | 21.2 | 20.9 | 24.6 |

1) As per the internal grading system, junior manager corresponds to CL2, while manager is classified as CL3 and CL4.

Hiring Cost

| Category | Unit | 2022 |
|--------------------------------------|-------------|---------|
| Hiring cost | million KRW | 6,995.8 |
| Average hiring cost(hiring cost/FTE) | million KRW | 1.8 |

Performance Appraisal

| Category | Unit | 2020 | 2021 | 2022 |
|--------------------------------|--------|--------|--------|--------|
| Ratio of performance appraisal | % | 100 | 100 | 100 |
| No. of employees participated | Person | 23,740 | 24,779 | 26,236 |

Average of Executive and Employee Compensation for HQ

| Category | | Unit | 2020 | 2021 | 2022 |
|-----------|--------|-------------|------|------|------|
| Executive | | million KRW | 388 | 409 | 402 |
| Employee | Male | million KRW | 104 | 125 | 137 |
| | Female | million KRW | 83 | 100 | 113 |

Gender Pay Gap

| Category | | Unit | 2022 |
|---------------------------------------|----------------|-------------|------|
| Maan | Gender Pay Gap | % | 100 |
| IVIEdT | Bonus gap | % | 100 |
| | Total average | million KRW | 131 |
| Average salary(HQ) ¹⁾ | Male | million KRW | 137 |
| | Female | million KRW | 113 |
| | Total average | Year | 15.6 |
| Average tenure(HQ) | Male | Year | 16.4 |
| | Female | Year | 13.1 |
| | Total average | million KRW | 85.2 |
| Average salary(global ²⁾) | Male | million KRW | 93.3 |
| | Female | million KRW | 66.1 |

1) Samsung SDS treat employees equally regardless of their genders. The difference in average pay is due to average tenure differences. Therefore, equal remuneration are given.

2) Global: headquarters, overseas subsidiaries, and domestic subsidiaries.

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Social

Employee Training Status

| Category | | Unit | 2020 | 2021 | 20221) |
|-------------------------------------|------------------------------------|-------------|---------|---------|-----------|
| Average training hours per employee | | Hour | 55.4 | 63.6 | 75.7 |
| Average amount spent per employee | | million KRW | 2.3 | 1.6 | 1.3 |
| Total number of | employees participated in training | Person | 12,612 | 12,644 | 23,413 |
| | Total | Hour | 699,557 | 804,034 | 1,773,458 |
| Training hours | Male | Hour | 500,796 | 584,853 | 1,242,568 |
| | Female | Hour | 198,761 | 219,181 | 530,890 |

1) Include subsidiaries and overseas subsidiaries data starting in 2022

Employee Training

| Category | | Unit | 2020 | 2021 | 2022 |
|------------------------------------|---------------------------|--------|--------|--------|--------|
| Conorol | Training hours per person | Hour | 52 | 58 | 75.3 |
| General | Participants | Person | 12,621 | 12,644 | 22,282 |
| Ethics | Training hours per person | Hour | 1 | 1 | 0.9 |
| Ethics | Participants | Person | 12,317 | 11,919 | 19,970 |
| Compliance | Training hours per person | Hour | 1 | 2.4 | 1.7 |
| | Participants | Person | 12,274 | 12,107 | 20,843 |
| Information | Training hours per person | Hour | 1 | 1 | 1.1 |
| security | Participants | Person | 11,796 | 11,879 | 19,092 |
| Lluman rights ¹⁾ | Training hours per person | Hour | 3 | 3 | 3 |
| Human rights" | Participants | Person | 12,319 | 12,069 | 18,437 |
| Sexual harassment prevention | Training hours per person | Hour | 1 | 1 | 1.1 |
| | Participants | Person | 12,411 | 12,069 | 18,945 |

1) Human rights training: sexual harassment prevention training, disability awareness training, workplace bullying prevention, and mental health training

Growth of Experts

| Category | Unit | 2020 | 2021 | 2022 |
|--|--------|-------|-------|-------|
| Advanced software experts | Person | 2,205 | 3,975 | 4,194 |
| Professionals with capabilities in 5 core technologies | Person | 1,053 | 1,601 | 9,536 |
| Data Specialist | Person | 441 | 506 | 672 |

Participation Rate in Employee Development Programs

| Category | Unit | 2022 |
|--------------------------------|------|------|
| Cultivating cloud experts | % | 37.2 |
| Software qualification program | % | 21.0 |

Human Capital Return on Investment

| Category | Unit | 2020 | 2021 | 2022 |
|------------------------------------|-------------|------------|------------|------------|
| a) Total revenue | million KRW | 11,017,432 | 13,630,002 | 17,234,749 |
| b) Total operating expense | million KRW | 818,130 | 875,066 | 984,482 |
| c) Total employee-related expenses | million KRW | 2,408,872 | 2,736,390 | 2,993,327 |
| HC ROI = (a-(b-c))/c | - | 5.23 | 5.66 | 6.43 |

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Social

Usage of Parental Leave

| Category | | Unit | 2020 | 2021 | 2022 |
|---|--------------|--------|--|-------|------|
| | Subtotal | Person | 355 | 310 | 315 |
| No. of employees on parental leave | Male | Person | 106 | 93 | 106 |
| | Female | Person | 249 | 217 | 209 |
| | Subtotal | Person | 294 | 304 | 289 |
| No. of employees returning from parental leave | Male | Person | 76 | 83 | 83 |
| nom parental leave | Female | Person | 218 | 221 | 206 |
| | Subtotal | % | 82.8 | 98.1 | 88.4 |
| Parental leave return rate ¹⁾ | Male | % | 71.7 | 89.3 | 78.3 |
| | Female | % | 87.6 | 101.8 | 98.6 |
| No. of employees who stayed on | Subtotal | Person | 286 | 290 | 276 |
| the job for more than 12 months | Male | Person | 294 304 294 304 76 83 218 221 82.8 98.1 71.7 89.3 87.6 101.8 286 290 74 73 212 217 65 65 | 73 | 77 |
| after returning to work | Female | Person | 212 | 217 | 199 |
| Paid parental leave for the primary | y caregiver | Week | 65 | 65 | 65 |
| Paid parental leave for non-prima | ry caregiver | Week | 55 | 55 | 55 |

1) Parental leave return rate = number of returning employees/total users of the parental leave

Employee Participation Rate in Labor Management Council

| Category | Unit | 2020 | 2021 | 2022 |
|-----------------------------|------|------|------|------|
| Employee participation rate | % | 100 | 100 | 100 |

Samsung Culture Index(SCI)

| Category | Unit | 2019 | 2020 | 2021 | 2022 |
|---------------------------|------|------|------|------|------|
| Participation rate in SCI | % | 96.9 | 98.1 | 89.9 | 92.1 |

Employee Turnover Rate

| Unit | 2019 | 2020 | 2021 | 2022 |
|------|--|---|--|---|
| % | 2.2 | 1.8 | 3.8 | 5.1 |
| % | - | - | - | 100.0 |
| % | - | - | - | 82.2 |
| % | - | - | - | 17.7 |
| % | - | - | - | 5.0 |
| % | - | - | - | 69.1 |
| % | - | - | - | 25.8 |
| % | 2.2 | 1.8 | 3.6 | 4.9 |
| % | - | - | - | 9.0 |
| | Unit % % % % % % % % | Unit 2019 % 2.2 % - % - % - % - % - % - % - % - % - % - % 2.2 % - | Unit 2019 2020 % 2.2 1.8 % - - % - - % - - % - - % - - % - - % - - % - - % - - % - - % 2.2 1.8 % 2.2 1.8 | Unit 2019 2020 2021 % 2.2 1.8 3.8 % - - - % - - - % - - - % - - - % - - - % - - - % - - - % - - - % - - - % 2.2 1.8 3.6 % - - - |

1) Global: headquarters, overseas subsidiaries, and domestic subsidiaries.

Retirement Pension Funds

| | 202 | 20 | 202 | 21 | 202 | 2 ¹⁾ |
|--|----------------------------|--|----------------------------|--|----------------------------|--|
| Category | Amount (million KRW) | No. of employees covered (Person) | Amount (million KRW) | No. of employees covered (Person) | Amount (million KRW) | No. of employees covered (Person) |
| Defined benefit plan-DB(domestics) | 1,251,858 | 11,446 | 1,513,880 | 11,190 | 1,965,936 | 13,876 |
| Defined benefit plan-DB(overseas) | - | - | - | - | 73.087 | 3,505 |
| Defined contribution plan-DC(domestics) | 56,885 | 1,189 | 59,844 | 1,136 | 74,470 | 1,289 |
| Defined contribution plan-DC(overseas) | - | - | - | - | 51,771.3 | 2,174 |
| IRP(domestics) | - | - | - | - | 0 | 0 |
| IRP(overseas) | - | - | - | - | 1,667.6 | 108 |

1) Include subsidiaries and overseas subsidiaries data starting in 2022

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Social

Employee Social Contribution

| Category | Unit | 2020 | 2021 | 2022 |
|--------------------------|--------|-------|-------|-------|
| Participants | Person | 3,221 | 1,265 | 1,252 |
| Service hours per person | Hour | 6.6 | 6.8 | 8.2 |

Types of Philanthropy

| Category | Unit | 2020 | 2021 | 2022 |
|---|-------------|--------|-------|--------|
| Cash | million KRW | 6,161 | 3,629 | 4,163 |
| Time: employee volunteering during paid working hours | Hour | 21,345 | 8,578 | 10,274 |
| In-kind giving: product or services donations, projects partnerships or similar | million KRW | 6 | 33 | 16 |
| Expenses ¹⁾ | million KRW | 31 | 1,800 | 1,603 |

1) From 2023, expenses will be calculated as a separate social contribution expense in addition to donations, so previous years' data will be restated on the same basis.

| Category | | Unit | 2022 |
|---------------|-----------------------|------|------|
| | Charitable Donation | % | 37.1 |
| Percentage of | Community Investment | % | 54.9 |
| total costs | Commercial Intiatives | % | 8.0 |
| | Total | % | 100 |

Volunteers and Beneficiaries

| Category | Unit | 2020 | 2021 | 2022 |
|---------------------|--------|--------|---------|---------|
| Total volunteers | Person | 10,956 | 9,858 | 10,347 |
| Total beneficiaries | Person | 93,411 | 253,006 | 357,811 |

Safety and Health

| Category | Unit | 2020 | 2021 | 20221) |
|---|--------|------------|------------|------------|
| Industrial accident rate(HQ) | % | 1.60 | 0.00 | 0.00 |
| Industrial accident rate(global ²⁾) | % | - | - | 0.00 |
| No. of employees | Person | 12,495 | 12,400 | 26,236 |
| No. of people with industrial accident | Person | 2 | 0 | 0 |
| Accident intensity rate | % | 1.4 | 0 | 0 |
| Total working hour(average per week) | Hour | 26,389,440 | 26,188,800 | 55,410,432 |
| Lost-time | Day | 375 | 0 | 0 |

1) Include subsidiaries and overseas subsidiaries data starting in 2022

2) Global: headquarters, overseas subsidiaries, and domestic subsidiaries.

| Category | | Unit | 2020 | 2021 | 20221) |
|-----------------------------|--|------|------------|------------|------------|
| Occupational safety | OIFR(Occupational IIIness Frequency Rate) | % | 0.00 | 0.00 | 0.00 |
| | No. of occupational injuries and illness | Case | 0 | 0 | 0 |
| | Employee_LTIFR | % | 7.58 | 0.00 | 0.00 |
| LTIFR | Total working hours ²⁾ | Hour | 26,389,440 | 26,188,800 | 55,410,432 |
| | Lost-time | Hour | 308 | 0 | 0 |
| No. of occupation | al injuries and illness | Case | - | 0 | 0 |
| | Suppliers_LTIFR | % | - | 0.12 | 0.27 |
| Suppliers_LTIFR | Total working hours | Hour | - | 8,038,272 | 14,838,868 |
| | Lost-time | Hour | - | 576 | 2,136 |
| No. of occupation suppliers | al injuries and illness from | Case | - | 0 | 0 |

1) Include subsidiaries and overseas subsidiaries data starting in 2022

2) working hours: total employees x 8 hours a day x 22 days a month x 12 month a year

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Social

Supplier Status

| Category | Unit | 2020 | 2021 | 2022 |
|-------------------------|-------------|---------|---------|-------------------|
| No. of suppliers | Unit | 279 | 279 | 220 ¹⁾ |
| Total purchasing amount | million KRW | 367,632 | 413,570 | 405,925 |

1) No. of suppliers reduced due to sale of Home IoT business in 2022.

Shared Growth Support Scale

| Category | | Unit | 2020 | 2021 | 2022 |
|------------------------|--|--------|-------|-------|-------|
| Education support | No. of training programs | Unit | 65 | 63 | 131 |
| Education support | No. of trainees | Person | 2,128 | 2,195 | 3,200 |
| | Brity RPA support cases | Case | - | 4 | 7 |
| Technical support | No. of support cases for development methodology | Case | 231 | 231 | 231 |
| | No. of technical data escrow | Case | 22 | 19 | 13 |
| HR recruitment support | No. of employees hired by suppliers | Person | 69 | 101 | 125 |

Win-win Management Fund Status

| Category | Unit | 2020 | 2021 | 2022 |
|-----------------|-------------|--------|--------|--------|
| Amount Raised | million KRW | 60,000 | 60,000 | 60,000 |
| Amount Executed | million KRW | 45,404 | 40,843 | 51,093 |

IT Failure Rate¹⁾

| Category | Unit | 2020 | 2021 | 2022 |
|-------------|------|-------|-------|-------|
| Target | ppm | 0.060 | 0.060 | 0.024 |
| Performance | ppm | 0.053 | 0.024 | 0.004 |

1) Failure Rate: Accumulated downtime (minutes) \div equipment operating time (minutes)

Customer Satisfaction Status

| Category | Unit | 2020 | 2021 | 2022 | Target |
|--------------------|-------|------|------|------|--------|
| satisfaction score | Score | 93.3 | 92.2 | 94 | 90 |
| Data coverage | % | 100 | 100 | 100 | 100 |

VoC Processing Status

| Category | Unit | 2020 | 2021 | 2022 |
|---------------|------|---------|---------|---------|
| VoC received | Case | 851,751 | 814,504 | 754,540 |
| Handling rate | % | 100 | 100 | 100 |

Quality Management & Audits of Distribution Networks

| Category | | Unit | 2022 |
|---------------------------------|---|------|------|
| | Ratio of receiving regularly revised customer service quality standard documents | % | 100 |
| Quality Management System | Ratio of participating regular customer service quality management workshops by region, country, and customer | % | 100 |
| | Ratio of participating official training programs for distributors and customer service quality management | % | 100 |
| | Regular internal audits of product/service distribution network | % | 100 |
| Audits | Regular external audits, based on company-defined Quality Management System | % | 100 |
| | Regular external audits, based on ISO 9000 series or other generally accepted Quality Management Systems | % | 100 |

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Environment

GHG Emissions(Scope 1, 2)

| Category | Unit | 2019 | 2020 | 2021 | 2022 |
|---|-------------------------------------|--------|--------|---------|---------|
| Direct GHG emissions(Scope 1) | tCO ₂ eq | 4,300 | 3,488 | 3,354 | 4,539 |
| Indirect GHG emissions(Scope 2) | tCO ₂ eq | 92,778 | 91,795 | 98,528 | 118,308 |
| GHG total emissions(Scope 2, market-based) | tCO ₂ eq | 92,778 | 91,795 | 98,528 | 118,308 |
| Ratio GHG emissions(Scope 2, market-based) of GHG total emissions | % | 95.6 | 96.3 | 96.7 | 96.3 |
| GHG total emissions(Scope 2, location-based) | tCO ₂ eq | 92,778 | 91,795 | 98,528 | 118,308 |
| Ratio GHG emissions(Scope 2, location-based) of GHG total emissions | % | 95.6 | 96.3 | 96.7 | 96.3 |
| GHG total emissions(scope 1+scope 2) | tCO ₂ eq | 97,073 | 95,277 | 101,882 | 122,842 |
| GHG emissions intensity | tCO ₂ eq/100 million KRW | 0.91 | 0.86 | 0.75 | 0.71 |

GHG Emissions(Scope 3)

| Category ¹⁾ | Unit | 2020 | 2021 | 2022 |
|--|---------------------|-----------|-----------|-----------|
| 1. Purchased goods and services | tCO ₂ eq | - | 38,755 | 22,647 |
| 2. Capital goods | tCO ₂ eq | - | 77,435 | 84,216 |
| 3. Energy not included in Scope 1, 2 | tCO ₂ eq | - | - | 7,718 |
| 4. Upstream transportation ²⁾ | tCO ₂ eq | - | 3,214,027 | 2,996,426 |
| Air | tCO ₂ eq | - | 1,617,183 | 1,388,921 |
| Truck | tCO ₂ eq | - | 982,347 | 1,023,681 |
| Sea | tCO ₂ eq | - | 607,285 | 575,023 |
| Train | tCO ₂ eq | - | 7,212 | 8,055 |
| 5. Waste generated in operations | tCO ₂ eq | - | 339 | 290 |
| 6. Business travel | tCO ₂ eq | - | 2,177 | 8,646 |
| 7. Employee commuting | tCO ₂ eq | - | 6,980 | 5,222 |
| 8. Upstream leased assets | tCO ₂ eq | - | 69,739 | 14,773 |
| 15. Investments | tCO ₂ eq | - | - | 14,581 |
| Total | tCO,eq | 5,890,563 | 3,409,452 | 3,154,520 |

1) Categories 9 to 14 of Scope 3 have been excluded from the calculations as they are not related to Samsung SDS' business operations.

2) Upstream transportation in 2020 was calculated from a conservative perspective for the entire global transportation scope by referring to the notification of the Ministry of Environment. From 2021 onwards, upstream transport logistics calculations have been refined according to the standards of the Global Logistics Emission Council(GLEC).

Energy Consumption by Business Site¹⁾

| Category | Unit | 2019 | 2020 | 2021 | 2022 ²⁾ |
|-----------------------------|--------------------|--------|--------|--------|---------------------------|
| Headquaters(include campus) | TJ | 250 | 229 | 248 | 288 |
| Sangam Data Center | TJ | 495 | 496 | 548 | 615 |
| Suwon Data Center | TJ | 800 | 862 | 921 | 1,052 |
| Gumi Data Center | TJ | 168 | 173 | 176 | 170 |
| Chuncheon Data Center | TJ | 54 | 183 | 224 | 284 |
| Others | TJ | 221 | 11 | - | 113 |
| Total energy consumption | TJ | 1,988 | 1,954 | 2,117 | 2,522 |
| Energy intensity | TJ/100 million KRW | - | - | - | 0.015 |
| Total energy cost | million KRW | 23,080 | 26,819 | 28,471 | 38,414 |

1) Energy consumption includes fuel, electricity, heat, cooling, and steam usage in our organization 2) Include subsidiaries and overseas subsidiaries data starting in 2022

Data Center Energy Consumption

| Category | Unit | 2019 | 2020 | 2021 | 2022 | Target |
|--|------|---------|---------|---------|---------|--------|
| Non-renewable energy consumption | MWh | 178,946 | 179,821 | 192,936 | 224,414 | - |
| Renewable energy consumption | MWh | 184 | 239 | 245 | 306 | 300 |
| Total energy consumption | MWh | 179,130 | 180,059 | 193,181 | 224,720 | - |
| Renewable energy production | MWh | 184 | 239 | 245 | 306 | - |
| Renewable energy use ratio at data centers | % | 0.10 | 0.13 | 0.13 | 0.14 | - |

Physical Climate Risk

| Category | Unit | 2022 |
|---|------|------|
| Percentage of revenue from existing operations that includes risk assessment and planning | % | 100 |
| Percentage of revenue from new operations that includes risk assessment and planning | % | 100 |

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Environment

Green Investments for Data Centers

| Category | Item | Unit | 2022 |
|--------------------|---|-------------|------|
| Suwon Data Center | Installation of solar power generation facilities | million KRW | 344 |
| Sangam Data Center | Installation of inverters | million KRW | 200 |

Green Investments for Dongtan Data Center

| Category | Item | Unit | 2021 ~ 2022 |
|--------------|--|-------------|-------------|
| Construction | Containment | billion KRW | 0.93 |
| | High efficiency UPS | billion KRW | 4.02 |
| | High efficiency transformer | billion KRW | 2.43 |
| Electricity | Device for power factor correction | billion KRW | 0.20 |
| | LED lights | billion KRW | 0.69 |
| | Establishment of solar energy facilities | billion KRW | 0.94 |
| | High-temperature and cold-water refrigerator(large temperature difference) | billion KRW | 5.10 |
| | Water-side economizer | billion KRW | 5.10 |
| Machinery | Inverter pump | billion KRW | 1.00 |
| | Fan wall(variable-air-volume fan) | billion KRW | 16.76 |
| | Temperature & humidity chamber(variable-air-volume fan) | billion KRW | 2.03 |
| | Total heat exchanger | billion KRW | 0.01 |
| Total | | billion KRW | 39.21 |

Data Center Certifications and PUE

| Site | Certification | Emissions(tCO ₂ eq) | PUE |
|-----------------------|--|--------------------------------|------|
| Suwon Data Center | Uptime Institute Tier 3 (first in South Korea) | 50,431 | 1.56 |
| Sangam Data Center | Acquired Uptime Institute's M&O Stamp (first in South Korea) | 29,436 | 1.37 |
| Chuncheon Data Center | Green Data Center Certification(Platinum, highest ever) | 13,621 | 1.27 |

Data Center Efficiency

| | Unit | 2019 | 2020 | 2021 | 2022 | Target |
|---------------|------|------|------|------|------|--------|
| Average PUE | - | 1.57 | 1.54 | 1.50 | 1.47 | 1.48 |
| Data Coverage | % | 100 | 100 | 100 | 100 | - |

Reduction of GHG Emissions by Business Site

| Category | Reduction Activities | Unit | 2022 |
|-------------|---|---------------------|------|
| | Control of the number of thermo-hygrostats through temperature-humidity sensors | tCO ₂ eq | 154 |
| | Extension of the operation period of spray pumps in cooling towers | tCO ₂ eq | 134 |
| Suwon | Partial shutdown of air-cooled thermo-hygrostats | tCO ₂ eq | 93 |
| Data Center | Efficient operation of server room humidifiers | tCO ₂ eq | 25 |
| | Replacement of highly efficient PAC in the subroom | tCO ₂ eq | 6 |
| | Installation of solar power generation facilities | tCO ₂ eq | 19 |
| | Subtotal | tCO ₂ eq | 431 |
| | Adjustment of the cooling set temperature | tCO ₂ eq | 19 |
| Sangam | Control of the No. of operating cooling towers | tCO ₂ eq | 11 |
| Data Center | Installation of pump inverters | tCO ₂ eq | 306 |
| | Subtotal | tCO ₂ eq | 336 |
| | Expansion of direct free cooling introduction period | tCO ₂ eq | 19 |
| Chuncheon | Installation of outdoor chiller awning screens | tCO ₂ eq | 17 |
| Data Center | Outdoor chiller condenser coil spraying | tCO ₂ eq | 7 |
| | Subtotal | tCO ₂ eq | 43 |
| Gumi | Electric boiler | tCO ₂ eq | 45 |
| Data Center | Subtotal | tCO ₂ eq | 45 |
| Total | | tCO ₂ eq | 855 |

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Environment

Environment Management System Verification

| Category | Unit | 2022 |
|--|------|------|
| Verification coverage in accordance with international standards | % | 100 |
| Third-party verification coverage received from external specialized organizations | % | 0 |
| Verification coverage by internal experts dispatched from headquarters | % | 0 |
| Total | % | 100 |

Water Consumption

| Category | | Unit | 2019 | 2020 | 2021 | 2022 |
|---------------------|-----------------------------|------|---------|---------|---------|-----------|
| Material della | Waterworks | Ton | 254,365 | 326,406 | 323,461 | 401,701 |
| Water-Intake | Underground water | Ton | 161,964 | 162,868 | 167,784 | 164,997 |
| Discharge | Underground water | Ton | 161,964 | 162,868 | 167,784 | 164,997 |
| Total water consump | tion(HQ ¹⁾) | Ton | 254,365 | 326,406 | 323,461 | 401,701 |
| Total water consump | tion(global ¹⁾) | Ton | - | - | - | 3,073,927 |

1) Starting 2022, additional sites have been included for environmental disclosure beyond the initial six, encompassing Dongtan Data Center, Pangyo IT Campus, Pangyo Logistics Campus, Seoul R&D Campus, and Giheung Terra Tower 2) Global: Headquarters, overseas subsidiaries, and domestic subsidiaries

Water Consumption by Business site

| Category | Unit | 2022 |
|-----------------------|------|---------|
| Suwon Data Center | Ton | 163,495 |
| Sangam Data Center | Ton | 44,461 |
| Gumi Data Center | Ton | 20,542 |
| Chuncheon Data Center | Ton | 15,329 |
| Dongtan Data Center | Ton | 4,646 |
| East Campus | Ton | 57,329 |
| West Campus | Ton | 49,731 |
| Others | Ton | 46,168 |
| Total consumption | Ton | 401,701 |

Waste Generation

| Catagony | Unit | Init 2019 | | 2021 | 202 | Target | |
|---|------|-----------|-------|--------|-------|----------------------|--------|
| Category | Unit | 2019 | 2020 | 2021 - | HQ | Global ²⁾ | Target |
| Total waste generation | Ton | 1,300 | 1,575 | 953 | 496.7 | 2,183.8 | 2,200 |
| Total waste recycled/reused | Ton | 0 | 0 | 361 | 113.4 | 897.2 | 900 |
| Total waste disposed | Ton | 1,300 | 1,575 | 592 | 383.3 | 1,286.6 | 1,300 |
| Landfilled waste | Ton | 1,295 | 1,568 | 576 | 371.2 | 1019.4 | - |
| Incinerated waste with energy recovery | Ton | 0 | 0 | 0 | 0.7 | 3.8 | - |
| Incinerated waste without energy recovery | Ton | 0 | 0 | 15 | 11.4 | 11.4 | - |
| Waste otherwise disposed | Ton | 5 | 7 | 1 | 0 | 252 | - |
| Waste with unknown disposal method | Ton | 0 | 0 | 0 | 0 | 0 | - |

1) Starting from 2022, data from subsidiaries and overseas subsidiaries have been included. Since they do not fall under the category of business waste emitters based on emission criteria, the recycling/disposal information is not accurately known. Therefore, a conservative estimation has been made.

2) Global: headquarters, overseas subsidiaries, and domestic subsidiaries.

Waste Disposed for HQ

| Category | | Unit | 2022 |
|------------------|-------------------|------|-------|
| | Landfilled waste | Ton | 371.2 |
| General waste | Incinerated waste | Ton | 11.4 |
| | Recycled waste | Ton | 95.3 |
| Designated waste | Incinerated waste | Ton | 0.7 |
| Designated waste | Recycled waste | Ton | 18.2 |
| Total | | Ton | 496.7 |

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ESG Policy Book

Samsung SDS has instituted and rigorously enforced principal ESG policies across environmental, social, and governance areas, dedicating ourselves to the sustainable growth of the company.



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Management Approach

| Material Issues | Business Case | Business Strategy | Business Impact/ Type of Impact | Target/Metric | References |
|--|---|--|------------------------------------|---|------------|
| GHG Emissions Management and Reduction | In the wake of the Paris Agreement, the reduction of GHG emissions and the achievement of carbon neutrality have become paramount challenges for all nations. For businesses, these issues are intimately tied to the sustainability of their operations. | Establishment of a GHG emission management system and long-term reduction roadmap Active participation in government policies related to climate change Application of technologies for GHG emission reduction and energy efficiency improvement Promotion of low-carbon product and service development | Risk/Negative | Target: Minimizing GHG emissions Metric - Output metric: Scope 1,2,3 GHG Emissions - Impact metric: Revenue generation through solutions contributing to carbon reduction | 38 |
| Employee Health and Safety Management | Events such as epidemics and natural disasters can significantly impact business operations. It is vital for organizations to create an environment that ensures the safety of their employees and the smooth execution of their tasks. Sustained efforts are necessary to safeguard employees and establish a management system for accident prevention and response. Moreover, the ability to respond swiftly and effectively in the face of disaster signifies the caliber of a company's risk monitoring and response systems. Through these measures, companies can bolster their competitiveness in disaster situations and maintain stable operations. | Establishment and operation of safety and health management policies and system Acquisition of safety and health management system certification (expanded application overseas) Organization of dedicated safety and health teams Establishment of key safety and health goals, detailed tasks, and evaluation system | Revenue/Positive | Target: Zero severe industrial accidents/civil disasters Metric - Output metric: Industrial accident rate - Impact metric: Business losses due to legal sanctions | 71 |
| Workforce Diversity and Inclusion | Diversity and inclusion involve providing fair access to opportunities and resources for all individuals, irrespective of their race, gender, age, religion, geographical location, or cultural background while respecting individual differences. Embracing diversity and inclusion enhances a company's creativity and innovation by encouraging problem-solving from a variety of perspectives. It also enables improved collaboration and cooperation through open communication. | Establishment of human rights management system based on global guidelines Establishment of a human rights policy that complies with international organizations or regulatory standards Identification and management/improvement of human rights risks across the company Operation of a human rights-related grievance and redress system, public disclosure of qualitative/quantitative achievements | Revenue/Positive | Target: Exceeding the mandatory employment rate for people with disabilities Metric - Output metric: Employment status of socially disadvantaged individuals and female employees - Impact metric: Brand value assessment due to hiring socially disadvantaged and female employees | 56 |
| Supply Chain ESG Management | The presence of issues such as labor and human rights concerns, and conflict minerals in the supply chain, underscores the growing importance of managing and monitoring the sustainability of suppliers. By considering sustainability and social responsibility when managing risks in their supply chains, companies can mitigate related risks, strengthen their competitiveness, and establish a system to monitor their suppliers' human rights and working conditions. | Operation of a dedicated ESG organization in the supply chain Risk identification, management, and improvement through ESG performance evaluation, on-site inspections, and third-party inspections (secondary audits) of suppliers Support for capacity building of suppliers through ESG education and consulting Preparation of a code of conduct checklist for suppliers | Risk/Negative | Target: ESG training for all suppliers Metric - Output metric: ESG training performance of suppliers - Impact metric: Risk cost reduction due to improved management level of suppliers | 82~84 |
| Information Security | As digitalization leads to an increase in data throughput, and as threats such as cyberattacks and data leaks emerge, information security has become increasingly critical. Security incidents can result in reputational damage, decreased competitiveness, and legal issues. Therefore, organizations need to create systems to protect vital information assets and enhance Information Security activities. | Establishment of information security systems such as security policy establishment, security inspection, and security system management Acquisition of global security management system certification and information security/personal information protection management system certification Implementation of Zero Trust security system to verify the access environment of users and systems from multiple angles Establishment of a security verification system for products and systems | Cost/Complex | Target: Zero security incidents Metric - Output metric: Number of security incidents - Impact metric: Financial losses due to information/data leakage(fines) | 103 |

* Output metric: An indicator measuring environmental/social outcomes resulting from a corporation's business activities Impact metric: An indicator measuring the degree of environmental/social impact (damage or benefit) arising from the output metric

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Alignment with the UN SDGs

Samsung SDS is committed to contributing to the achievement of the United Nations Sustainable Development Goals (SDGs) through our corporate activities and addressing universal challenges facing humanity. By addressing various issues faced by local and global communities, we strive to make a positive impact in the five key areas of the SDGs known as the 5Ps: Planet, People, Prosperity, Peace, and Partnership. Samsung SDS is actively engaged in diverse activities in each ESG (Environmental, Social, and Governance) area to contribute evenly across these SDG pillars.

Partnership

Samsung SDS is actively involved in addressing major agendas faced by global society, grounded in solid global partnerships.



Goal 17. Revitalize the global partnership for sustainable development

Samsung SDS contributes to solving poverty and inequality issues facing the international community by collaborating with World Vision. This NGO is dedicated to supporting the world's most vulnerable children, families, and communities.

Peace

Samsung SDS is committed to building a more peaceful, fair, and inclusive society.



Goal 16. Promote just, peaceful and inclusive societies

To establish a transparent and fair trade culture with our suppliers, Samsung SDS applies the Standard Form Subcontract issued by the Fair Trade Commission(FTC) for electronic contracts. Electronic contracts based on SmartTogether.com prevent verbal orders and unfair order cancellations. Samsung SDS operates a labor-management council to foster healthy labor-management relations and communication between labor and management. The council works to improve the company system and working environment, address employee grievances through the council's communication channels, and conduct various other activities to revitalize organizational culture.

Prosperity

Samsung SDS contributes to improving society members' quality of life based on economic growth.



Goal 7. Ensure access to affordable, reliable, sustainable, and modern energy

To enhance the environmental friendliness of our data centers, Samsung SDS is increasing the proportion of energy supplied to our facilities from renewable sources. Utilizing a broad spectrum of renewable energy sources, including solar water heating, photovoltaic power generation, geothermal cooling and heating systems, fuel cell technology, natural lighting, and geothermal heat pumps, Samsung SDS seeks to fulfill the energy requirements of our data centers.



Goal 8. Promote inclusive and sustainable economic growth, employment and decent work for all

Samsung SDS executes various financial support programs such as direct loans(Win-Win Management Fund) and indirect financial support(Network Loan), aiming to stabilize the businesses of our suppliers.



Goal 9. Build resilient infrastructure, promote sustainable industrialization and foster innovation

Samsung SDS contributes to the promotion of industrialization through sustainable services grounded in accumulated ICT technologies.



Goal 10. Reduce inequality within and among countries

Samsung SDS has earned recognition as an Honorable Company for Shared Growth by securing the top rating for five consecutive years. This achievement was made possible by enhancing communication with suppliers, providing financial, educational, and technical support, and improving payment terms.

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Alignment with the UN SDGs

People

Samsung SDS respects the inherent dignity and equal rights of all our employees.



Goal 2. Zero Hunger

Samsung SDS has implemented a meal support program for underprivileged adolescents in Songpa-gu, who are vulnerable to hunger and difficult to care for. For community engagement with rural villages, Samsung SDS has maintained partnerships with sister villages since 2002 and organizes markets with these villages during Lunar New Year and Chuseok holidays to aid in revitalizing the rural economy.



Goal 3. Ensure healthy lives and promote well-being for all at all ages

Samsung SDS operates the Mental Fitness Center to foster not only physical health but also the mental well-being of our employees. At the center, employees can express various concerns. Counseling sessions are held in a location that is convenient and close to the counselee, with strict confidentiality maintained.



Goal 4. Provide quality education for all

Samsung SDS operates a qualification support system to strengthen our business capabilities and bolster the professionalism of our employees. Samsung SDS provides support for about 500 work-related qualifications, and some strategically important qualifications at the company level are awarded additional promotion points. Moreover, the list of supported qualifications is constantly reviewed and updated.



Goal 5. Achieve gender equality and empower all women and girls

Samsung SDS does not discriminate against employees based on gender, age, or origin. Samsung SDS extends paid maternity leave to male employees and approves the use of parental leave, promoting equal sharing of family responsibilities and recognizing the value of unpaid care and domestic work.

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Alignment with the UN SDGs

Planet

Samsung SDS actively participates in protecting natural resources and addressing climate change for future generations.



6 CLEAN WATER AND SANITATION

CO

Goal 6. Ensure access to water and sanitation for all

Samsung SDS has established a water consumption management system and is continuously implementing measures to reduce the discharge of hazardous substances and sewage. After primary treatment in septic tanks, sewage discharged from business sites is treated at municipal sewage treatment plants. Samsung SDS also regularly cleans and disinfects septic tanks and measures the quality of discharged water.

Goal 12. Ensure sustainable consumption and production patterns

Samsung SDS continually monitors the amount of waste generation by building and data center units and strives to minimize waste generation and expand recycling rates. Old laptops and monitors used by employees are collected by recycling agencies, and Samsung SDS endeavors to increase the recycling rate of electronic products by participating in annual cell phone collection campaigns.

All old racks and IT equipment generated during the maintenance process of data centers are recycled. In this regard, the responsible department consolidates the amount of recyclable waste on a quarterly basis. Notably, 100% of scrap metal and rare metals are recycled through the smelting process.

Samsung SDS continuously encourages employees to adapt to a lifestyle that aligns with sustainable development, such as creating a paperless work environment, increasing the use of recyclables, and reducing the use of plastic cups.



Goal 13. Take urgent action to combat climate change and its impacts

Since 2016, Samsung SDS has participated in the Carbon Disclosure Project(CDP), aligning with international efforts to combat climate change and openly disclosing our climate change response strategies, goals, and activities to stakeholders.



Goal 14. Conserve and sustainably use the oceans, seas and marine resources

Samsung SDS operates Cello Trust, a system allowing users to verify the actual distribution history with a single QR code by providing transparent distribution processes on the blockchain. As a blockchain-based traceability management platform, traceability necessitates an entity to confirm the authenticity of the recorded information. In our effort to contribute to reducing the illegal capture of fish, Samsung SDS has included the World Wide Fund for Nature(WWF) as a validator.

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GRI Standards Index

| GRI 2: Genera | GRI 2: General Disclosures 2021 | | | | | | | | | | | |
|-----------------------|---------------------------------|--|-----------------|--|--|--|--|--|--|--|--|--|
| Classification | Disclosure | Indicators | Page | Note | | | | | | | | |
| | 2-1 | Organizational details | 2, 7, 8 | Required | | | | | | | | |
| The | 2-2 | Entities included in the organization's sustainability reporting | 2 | Required | | | | | | | | |
| and its | 2-3 | Reporting period frequency and contact point | 2 | Required | | | | | | | | |
| reporting practice | 2-4 | Restatements of information | 117 | Required Editing 2021 GHG emissions(scope 3) | | | | | | | | |
| | 2-5 | External assurance | 130~131 | Required | | | | | | | | |
| Activities and | 2-6 | Activities, value chain and other business relationships | 8, 23, 24 | | | | | | | | | |
| workers | 2-7 | Employees | 111, 112 | | | | | | | | | |
| workers | 2-8 | Workers who are not employees | - | Disclose in annual report(359pg) | | | | | | | | |
| | 2-9 | Governance structure and composition | 90~93 | | | | | | | | | |
| | 2-10 | Nomination and selection of the highest governance body | 90~93 | | | | | | | | | |
| | 2-11 | Chair of the highest governance body | 90 | | | | | | | | | |
| | 2-12 | Role of the highest governance body in overseeing the management of impacts | 28, 121 | | | | | | | | | |
| | 2-13 | Delegation of responsibility for managing impacts | 28, 34 | | | | | | | | | |
| Covernance | 2-14 | Role of the highest governance body in sustainability reporting | 22 | | | | | | | | | |
| Governance | 2-15 | Conflicts of interest | 93, 98 | | | | | | | | | |
| | 2-16 | Communication of critical concerns | 95~97,121 | | | | | | | | | |
| | 2-17 | Collective knowledge of the highest governance body | 34,93 | | | | | | | | | |
| | 2-18 | Evaluation of the performance of the highest governance body | 92 | | | | | | | | | |
| | 2-19 | Remuneration policies | 92 | | | | | | | | | |
| | 2-20 | Process to determine remuneration | 92 | | | | | | | | | |
| | 2-21 | Annual total compensation ratio | 112 | | | | | | | | | |
| | 2-22 | Statement on sustainable development strategy | 5,6 | | | | | | | | | |
| | 2-23 | Policy commitments | 120 | | | | | | | | | |
| Strategy | 2-24 | Embedding policy commitments | 98~102 | | | | | | | | | |
| policies and | 2-25 | Processes to remediate negative impacts | 62, 77, 98, 116 | | | | | | | | | |
| practices | 2-26 | Mechanisms for seeking advice and raising concerns | 62, 77, 98, 116 | | | | | | | | | |
| | 2-27 | Compliance with laws and regulations | 102,110 | | | | | | | | | |
| | 2-28 | Membership associations | 109 | | | | | | | | | |
| Stakeholder | 2-29 | Approach to stakeholder engagement | 24, 62 | | | | | | | | | |
| engagement | 2-30 | Collective bargaining agreements | 62,114 | | | | | | | | | |

| GRI 3: Material Topics 2021 | | | | | | | | | | | |
|-----------------------------|------------|--------------------------------------|-------------|----------|--|--|--|--|--|--|--|
| Classification | Disclosure | Indicators | Page | Note | | | | | | | |
| Material | 3-1 | Process to determine material topics | 21, 22, 121 | Required | | | | | | | |
| | 3-2 | List of material topics | 21, 22, 121 | Required | | | | | | | |
| | 3-3 | Management of material topics | 21, 22, 121 | | | | | | | | |

| Topic Standards _ Economic Performance (GRI 200) | | | | | | | | | | | |
|--|------------|--|-------------------|------|--|--|--|--|--|--|--|
| Classification | Disclosure | Indicators | Page | Note | | | | | | | |
| | 201-1 | Direct economic value generated and distributed | 7, 9, 11, 19, 108 | | | | | | | | |
| Economic Performance | 201-2 | Financial implications and other risks and opportunities due to climate change | 34~39 | | | | | | | | |
| Indiract | 201-3 | Defined benefit plan obligations and other retirement plans | 114 | | | | | | | | |
| Indirect Economic impacts | 203-2 | Significant indirect economic impacts | 18~19 | | | | | | | | |
| | 205-1 | Operations assessed for risks related to corruption | 102, 110 | | | | | | | | |
| Anti- corruption | 205-2 | Communication and training about anti- corruption policies and procedures | 98, 101, 110 | | | | | | | | |
| | 205-3 | Confirmed incidents of corruption and actions taken | 98, 110 | | | | | | | | |
| Anti- competitive Behavior | 206-1 | Legal actions for anti-competitive behavior, anti-trust, and monopoly practices | 98, 110 | | | | | | | | |
| Тах | 207-1 | Approach to tax | 120 | | | | | | | | |
| IdX | 207-2 | Tax governance, control, and risk management | 120 | | | | | | | | |

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GRI Standards Index

| Topic Standard | Topic Standards _ Environmental Performance (GRI 300) | | | | | | | | | | | | |
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| Classification | Disclosure | Indicators | Page | Note | | | | | | | | | |
| Energy | 302-1 | Energy consumption within the organization | 50, 117, 129 | | | | | | | | | | |
| Energy | 302-3 | Energy intensity | 117 | | | | | | | | | | |
| Water and | 303-3 | Water withdrawal | 52, 119 | | | | | | | | | | |
| Effluents | 303-4 | Water discharge | 52, 119 | | | | | | | | | | |
| | 305-1 | Direct (Scope 1) GHG emissions | 47, 117, 129 | | | | | | | | | | |
| | 305-2 | Energy indirect (Scope 2) GHG emissions | 47, 117, 129 | | | | | | | | | | |
| Emissions | 305-3 | Other indirect (Scope 3) GHG emissions | 47, 117, 129 | | | | | | | | | | |
| | 305-4 | GHG emissions intensity | 47, 117, 129 | | | | | | | | | | |
| | 305-5 | Reduction of GHG emissions | 47, 48, 117, 118, 129 | | | | | | | | | | |
| | 306-3 | Waste generated | 51, 119 | | | | | | | | | | |
| Waste | 306-4 | Waste diverted from disposal | 51, 119 | | | | | | | | | | |
| | 306-5 | Waste directed to disposal | 51, 119 | | | | | | | | | | |
| Supplier Environmental Assessment | 308-2 | Negative environmental impacts in the supply chain and actions taken | 83~84 | | | | | | | | | | |

| Topic Standards _ Social Performance (GRI 400) | | | | | | | | | | | | |
|--|------------|--|-------------|------|--|--|--|--|--|--|--|--|
| Classification | Disclosure | Indicators | Page | Note | | | | | | | | |
| Employment | 401-2 | Benefits provided to full-time employees that are not provided to temporary or part-time employees | 60~63 | | | | | | | | | |
| | 401-3 | Parental leave | 61,114 | | | | | | | | | |
| | 403-1 | Occupational health and safety management system | 70 | | | | | | | | | |
| | 403-2 | Hazard identification, risk assessment, and incident investigation | 72~73 | | | | | | | | | |
| | 403-3 | Occupational health services | 75~76 | | | | | | | | | |
| Occupational | 403-4 | Worker participation, consultation, and communication on occupational health and safety | 75~76 | | | | | | | | | |
| Occupational | 403-5 | Worker training on occupational health and safety | 75~76 | | | | | | | | | |
| Safety | 403-6 | Promotion of worker health | 75~76 | | | | | | | | | |
| | 403-7 | Prevention and mitigation of occupational health and safety impacts directly linked by business relationships | 71~74 | | | | | | | | | |
| | 403-8 | Workers covered by an occupational health and safety management system | 70~73 | | | | | | | | | |
| | 403-9 | Work-related injuries | 115 | | | | | | | | | |
| | 403-10 | Work-related ill health | 115 | | | | | | | | | |
| | 404-1 | Average hours of training per year per employee | 58, 113 | | | | | | | | | |
| Training and | 404-2 | Programs for upgrading employee skills and transition assistance programs | 58, 63, 113 | | | | | | | | | |
| Education | 404-3 | Percentage of employees receiving regular performance and career development reviews | 59, 112 | | | | | | | | | |
| Diversity | 405-1 | Diversity of governance bodies and employees | 90,111 | | | | | | | | | |
| and Equal Opportunity | 405-2 | Ratio of basic salary and remuneration of women to men | 112 | | | | | | | | | |
| Supplier Social Assessment | 414-2 | Negative social impacts in the supply chain and actions taken | 82~84 | | | | | | | | | |
| Public Policy | 415-1 | Political contributions | 109 | | | | | | | | | |
| Customer Privacy | 418-1 | Substantiated complaints concerning breaches of customer privacy and losses of customer data | 43, 110 | | | | | | | | | |

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SASB Index

| Торіс | Code | Accounting Metric | Page | Note | Category | Unit of Measure |
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| | TC-SI-130a.1 | (1) Total energy consumed, (2) percentage grid electricity, (3) percentage renewable | 50, 117 | | Quantitative | TJ, % |
| Energy Management | TC-SI-130a.2 | (1) Total water withdrawn, (2) total water consumed, percentage of each in regions with High or Extremely High Baseline Water Stress | 52, 119 | No information on High or Extremely High Baseline Water Stress | Quantitative | m³, % |
| | TC-SI-130a.3 | Discussion of the integration of environmental considerations into strategic planning for data center needs | 38, 48~52 | | Discussion and Analysis | N/A |
| | TC-SI-220a.1 | Description of policies and practices relating to behavioral advertising and user privacy | 42~43, 103, 106 | Privacy Policy on the website (As of April 1, 2022) | Discussion and Analysis | N/A |
| | TC-SI-220a.2 | Number of users whose information is used for secondary purposes | 43, 110 | | Quantitative | Numbers |
| Customer Privacy | TC-SI-220a.3 | Total amount of monetary losses as a result of legal proceedings associated with user privacy | 106, 110 | | Quantitative | Reporting currency |
| | TC-SI-220a.4 | (1) Number of law enforcement requests for user information, (2) number of users whose information was requested, (3) percentage resulting in disclosure | 43,110 | | Quantitative | Numbers, % |
| | TC-SI-220a.5 | List of countries where core products or services are subject to government-required monitoring, blocking, content filtering, or censoring | 43 | | Discussion and Analysis | N/A |
| Data Socurity | TC-SI-230a.1 | (1) Number of data breaches, (2) percentage involving personally identifiable information(PII), (3) number of users affected | 106, 110 | | Quantitative | Numbers, % |
| Data Security | TC-SI-230a.2 | Description of approach to identifying and addressing data security risks, including use of third- party cybersecurity standards | 103~106 | | Discussion and Analysis | N/A |
| Employee | TC-SI-330a.1 | Percentage of employees that are (1) foreign nationals and (2) located offshore | 111 | | Quantitative | % |
| Engagement, Diversity & | TC-SI-330a.2 | Employee engagement as a percentage | 62, 113 | | Quantitative | % |
| Inclusion | TC-SI-330a.3 | Percentage of gender and racial/ethic group representation for (1) management, (2) technical staff, and (3) all other employees | 111 | | Quantitative | % |
| Competitive Behavior | TC-SI-520a.1 | Total amount of monetary losses as a result of legal proceedings associated with anti-competitive behavior regulations | 102, 110 | | Quantitative | Reporting currency |
| Systemic Risk | TC-SI-550a.1 | Number of (1) performance issues and (2) service disruptions; (3) total customer downtime | 80 | | Quantitative | Numbers, Days |
| Management | TC-SI-550a.2 | Description of business continuity risks related to disruptions of operations | 79~80 | | Discussion and Analysis | N/A |

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TCFD Index

| Category | TCFD Recommendation | Page | | | | | | | |
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| Covernance | a) Describe the board's oversight of climate related risks and opportunities. | | | | | | | | |
| Governance | b) Describe management's role in assessing and managing climate related risks and opportunities. | | | | | | | | |
| | a) Describe the climate-related risks and opportunities the company has identified over the short, medium, and long term. | | | | | | | | |
| Strategy | b) Describe the impact of climate-related risks and opportunities on the company's businesses, strategy, and financial planning. | | | | | | | | |
| | c) Describe the resilience of the company's strategy, taking into consideration different climate-related scenarios, including a 2°C or lower scenari | | | | | | | | |
| Risk Management | a) Describe the company's processes for identifying and assessing climate-related risks. | | | | | | | | |
| | b) Describe the company's processes for managing climate-related risks. | | | | | | | | |
| | c) Describe how processes for identifying, assessing, and managing climate-related risks are integrated into the company's overall risk management | | | | | | | | |
| | a) Disclose the metrics used by the company to assess climate-related risks and opportunities in line with its strategy and risk management process. | | | | | | | | |
| Metrics and Targets | b) Disclose Scope 1, Scope 2, and, if appropriate, Scope 3 GHG emissions and the related risks. | | | | | | | | |
| | c) Describe the targets used by the company to manage climate-related risks and opportunities and performance against targets. | | | | | | | | |

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GHG Verification Statement

GHG Verification Statement

Samsung SDS Co., Ltd.

Business sites subject to verification : 12 business sites, including Samsung SDS headquarters (including subsidiaries and overseas subsidiaries) The Korea Management Registrar Inc. (hereinafter "KMR") has conducted the verification on the greenhouse gas (hereinafter "GHG") emission (Scope 1&2) of Samsung SDS CO., Ltd. (hereinafter "the Company") in 2022.

SCOPE

Verification of places of business, emission facilities, subsidiaries, and overseas subsisiaries under the control of the Company.

STANDARDS

- ISO 14064-1:2006, ISO 14064-3:2006
- IPCC Guidelines for National Greenhouse Gas Inventories (2006)
- Guidelines for Reporting and Certification of Emissions in the Greenhouse Gas Emissions Trading Scheme

LIMITATIONS

The verification has inherent limitations that may arise in the process of applying standards and methods.

RESULTS

- GHG verification has been performed to meet the limited assurance level according to the verification standards.
- We express that no significant errors were found in the calculation of emissions during the verification process, and that relevant activity data and evidence were appropriately managed and calculated. As a result, we express an "qualified" opinion.

| GHGs Emission | Direct emission (Scope1) | Indirect emission (Scope2) | Total (tCO ₂ -eq) |
|--------------------|--------------------------|----------------------------|------------------------------|
| 2022 | 4,539 | 118,308 | 122,842 |
| Energy Consumption | | | Total (TJ) |
| 2022 | 80 | 2,448 | 2,522 |

 $\ensuremath{\,\times\,}$ Total emissions are summed by company after cutting the decimal point at the workplace.

May 23th, 2023



Authorized By CEO Eun Ju Hwang $\mathcal{E} \mathcal{T} \mathcal{H} wang$

GHG Verification Statement

Samsung SDS Co., Ltd.

The Korea Management Registrar Inc. (hereinafter "KMR") has conducted the verification on the greenhouse gas (hereinafter "GHG") emission (Scope3) of Samsung SDS CO., Ltd. (hereinafter "the Company") in 2022.

SCOPE

Verification of places of business and emission facilities under the control of the Company.

STANDARDS

- ISO 14064-1:2006, ISO 14064-3:2006 WRI/WBCSD GHG Protocol
- IPCC Guidelines for National Greenhouse Gas Inventories (2006)
- Emission Factor for Greenhouse Gas Inventories(EPA)
- Korea LCI DB Information Network(Korea Environmental Industry & Technology Institute)

LIMITATIONS

The verification has inherent limitations that may arise in the process of applying standards and methods.

RESULTS

- GHG verification has been performed to meet the limited assurance level according to the verification standards.
- We express that no significant errors were found in the calculation of emissions during the verification process, and that relevant activity data and evidence were appropriately managed and calculated. As a result, we express an "qualified" opinion.

| No | CATEGORY | SCOPE 3 emission | No | CATEGORY | SCOPE 3 emission |
|----|--|------------------|-----|-----------------------|------------------|
| 1 | Purchased goods and service | 22,647 | 6 | Business travel | 8,646 |
| 2 | Capital goods | 84,216 | 7 | Employee commuting | 5,222 |
| 2 | Fuel- and energy-related | 7 710 | 8 | Upstream leased asset | 14,773 |
| 3 | scope 1 or scope 2) | 7,718 | 15 | Investments | 14,581 |
| 4 | Upstream transportation and distribution | 2,996,426 | Tot | al | 3,154,520 |
| 5 | Waste generated in operations | 290 | | | |
| | | | | | May 30th, 2023 |

KM

Authorized By CEO Eun Ju Hwang $\mathcal{E} \mathcal{T}$ Hwang

| Samsung SDS Sustainability Report 2023 | | Introduction | ES | G Highlights | ESG Management | | ESG | Performance | Appendix |
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Independent Assurance Statement

To: The Stakeholders of Samsung SDS Co., Ltd.

Introduction and objectives of work

BSI Group Korea (hereinafter "the Assurer") was asked to verify '2023 Samsung SDS Sustainability Report (hereinafter "the Report"). This assurance statement applies only to the relevant information contained in the scope of the assurance. Samsung SDS is solely responsible for all information and assertion contained in the report. The responsibility of the assurance is to provide independent assurance statement with expert opinions to Samsung SDS by applying the verification methodology and to provide this information to all stakeholders of Samsung SDS.

Assurance Standards and Levels

This assurance was based on the AA1000AS v3 (2020) Assurance Standard and confirmed that the report is prepared in accordance with the GRI Standards. The assurance level was based on the Type 1 that confirmed compliance with the four principles of AA1000 AP (2018) in accordance with the AA1000 AS and the Type 2 assurance that verified the quality and reliability of the information disclosed in the report. The Type 2 assurance was applied to the following disclosure of the GRI Topic Standards related to material topics:

[Topic Standards]

302-1(Energy), 303-3&4(Water and Effluents), 305-1~5(Emissions), 306-3~5(Effluents and Waste), 403-1~10(Occupational Health and Safety), 405-1&2(Diversity and Equal Opportunity)

Scope of Assurance

The scope of assurance applied to this report is as follows;

- Based on the period from January 1st to December 31st 2022 included in the report, some data included 2023.
- Major assertion included in the report, such as sustainability management policies and strategies, goals, projects, and performance, and the report contents related to material issues determined as a result of materiality assessment.
- Conformity, appropriateness and consistency of internal processes and systems for information, data collection, analysis and review.

The following contents were not included in the scope of assurance.

- Financial information presented in the report.
- Disclosures in the international standards and initiatives index excluding GRI presented in the report.
- Other related additional information such as the website, business annual report.

Methodology

As part of its independent assurance, the assurer has used the methodology developed to collect relevant evidence to comply with the verification criteria and to reduce errors in the reporting, and has performed the following activities;

- Review of the system for sustainability management strategy process and implementation
- Review of materiality issue analysis process and verification of the result to determine verification priorities,
- Review of the evidence to support the material issues through interviews with senior managers with responsibility for them
- Verification of data generation, collection and reporting for each performance index

Limitation

The assurer performed limited verification over a limited period based on the data provided by the reporting organization. This means that no significant errors are found during the verification process, and that there are limitations associated with the inevitable risks that may exist. The assurer does not provide assurance for possible future impacts that cannot be predicted or verified during the verification process and any additional aspects related thereto.

Assurance Opinion

On the basis of our methodology and the activities described above, it is our opinion that

- The information and data included in the report are accurate and reliable and the assurer cannot point out any substantial aspects of material with mistake or misstatement.
- The report is prepared in accordance with the GRI Standards. (Reporting in accordance with the GRI standards)
- The assurance opinion on the four principles presented by the AA1000 AP(2018) is as follows.

| Samsung SDS Sustainability Report 2023 | | Introduction | E: | SG Highlight | ESG Management | | ESG | Performance | Appendix |
|---|----------|-----------------|---------------------|----------------------------|---------------------|------------|------------|----------------------------|---------------------------------|
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Independent Assurance Statement

AA1000 AP(2018)

Inclusivity: Stakeholder Engagement and Opinion

Samsung SDS defined customers, employees, shareholders/investors, local communities and suppliers as key stakeholder's groups, and operates communication channels for each group for stakeholder engagement. Samsung SDS reflected key issues drawn through stakeholder channels in sustainability management decisions and disclosed the process in the report.

Materiality: Identification and reporting of material sustainability topics

Samsung SDS established a strategy related to sustainable management and established a process to derive reporting issues and evaluate business relevance and social impact across major ESG issues pools to determine the importance of the issue, select 10 critical issues and publish the process in the report.

Responsiveness: Responding to material sustainability topics and related impacts

Samsung SDS established the management process for key reporting issues determined by the materiality assessment. In order to respond appropriately to the expectations of stakeholders, Samsung SDS disclosed the process including policy, indicator, activity and response performance on key reporting issues in the report.

Impact: Impact of an organization's activities and material sustainability topics on the organization and stakeholders

Samsung SDS established the process to identify and evaluate the impact on organizations and stakeholders related to key reporting issues. Samsung SDS used impacts, risk and opportunity factor analysis results for key reporting issues to make decisions to develop response strategies for each issue, and disclosed the process in the report.

Key areas for ongoing development

To the extent that the results of the verification are not affected, the following comments were made.

- Samsung SDS is enhancing environmentally friendly data center operations, carbon information disclosure, and eco-friendly logistics services through risk analysis and strategy development to address climate change. Considering ways to operate in conjunction with value chain activities and including them in climate change strategies would be more effective
- In each area of the report, relatively positive aspects are explained and efforts to further develop are expressed. At the same time, it will help to improve the balance of reporting if issues with poor performance are identified and specific plans for resolving them are specified.
- Samsung SDS is effectively reporting on the key achievements of sustainable management. If internal verification processes are implemented for data quality and reliability management disclosed in the report, we can expect continuous improvement in the reporting process.

Statement of independence and competence

The assurer is an independent professional institution that specializes in quality, environment, safety and health, energy and anti-bribery, compliance related ESG management with almost 120 years history in providing independent assurance services. No member of the assurance team has a business relationship with Samsung SDS. The assurer has conducted this verification independently, and there has been no conflict of interest. All assurers who participated in the assurance have qualifications as AA1000AS assurer, have a lot of assurance experience, and understand the BSI Group's assurance standard methodology.

Evaluation against GRI 'In Accordance' Criteria

The assurer confirmed that this report is prepared in accordance with the GRI Standards, and the disclosures related to the following Universal Standards and Topic Standards Indicators based on the data provided by Samsung SDS, the sector standard was not applied.

[Universal Standards]

2-1 to 2-5 (The organization and its reporting practices), 2-6 to 2-8 (Activities and workers), 2-9 to 2-21 (Governance), 2-22 to 2-28 (Strategy, policies and practices), 2-29 to 2-30 (Stakeholder engagement), 3-1 to 3-3 (Material Topics Disclosures)

[Topic Standards]

201-1~4, 203-1, 205-1~3, 206-1, 207-1~4, 301-1~3, 302-1~5, 303-1~5, 304-1~4, 305-1~7, 306-1~5, 308-1&2, 401-1~3, 402-1, 403-1~10, 404-1~3, 410-1, 413-1&2, 414-1&2, 417-1~3, 418-1

> 23 June 2023 S. H. Lim BSI Group Korea, Managing Director







SAMSUNG SDS