Sustainability Management

Our vision and the policy for achieving a sustainable society.

Sustainability Management in the Fujitsu Group

Policy, Promotion Scheme, and Review

The Fujitsu Group has always been seen by society as a trustworthy and responsible enterprise through its delivery of products and services. However, in the current era of VUCA (*1), we face major changes and the future is di.ficult to predict. It is therefore important that we, as a member of the global community, conduct business activities under the leadership of senior management that are aimed at resolving environmental, societal and economic problems and that will produce beneficial impacts for society. In April 2020, we established a Sustainability Management Committee that will drive a sustainability-focused management approach under the supervision and direction of the Board of Directors Meeting and the Executive Management Council Meeting. As of fiscal 2024, the committee is made up of corporate executives or SVPs appointed by the Fujitsu CEO. It is chaired by the Fujitsu CEO with the Corporate Vice President acting as the Vice Chairperson. (As of May 2024, the committee had 15 m embers, including the chair.)

The objective of this committee is sustainability management that takes into account environmental, societal and economic impacts as well as stakeholder(*2) interests, ensuring that the company prospers in the long term as a responsible global enterprise. Specific initiatives will be in line with our values and our purpose, set out in the revised Fujitsu Way, and will include boosting our efforts in non-financial areas. These include respect for human rights, acceptance of diversity and equity, human resource development, maintenance of the global environment and contributing to the development of regional communities. Our goal is to achieve sustainable, long-term improvement in the corporate value of the Fujitsu Group.

The committee is scheduled to meet once every 6 months, and on an ad hoc basis as required, to review the progress of our activities in non-financial areas and determine whether we are on track to meeting our targets. The committee's other duties include conducting checks and discussions on sustainability-related businesses and deliberating on new activities. It then reports the results during management meetings and to the Board of Directors.

The first committee meeting was held in April 2020, followed by semiannual meetings – with the most recent meeting being held in March 2024. To date, the meetings have been characterized by lively discussions on topics such as non-financial indicators and Global Responsible Business activities as we aim to implement materiality in order to achieve 2030 vision of being a technology company that realizes net positive through digital services.

Board of Directors Meeting

Executive Management Council Meeting

Sustainability Management Committee

Reporting, deliberation, and decision-making on sustainability-related policies and activities

Chairperson: CEO; Vice-chairperson: Corporate Vice President;

Committee members: Corporate and Business Group Board Members or SVP

Head of Office: CSSO (Chief Sustainability & Supply Chain Officer)

Business Groups/Regions and Corporate Functions

System Chart

(*1) VUCA: Volatility, Uncertainty, Complexity, Ambiguity

(*2) The Fujitsu Group's stakeholders: The Fujitsu Group regards our people, customers, partners, community and shareholders as its stakeholders. Government authorities, NPOs, NGOs, and similar organizations are also particularly important stakeholders within this community.

Global Responsible Business

Since its CSR Promotion Committee established the Basic Strategy Working Group in 2010, the Fujitsu Group has identified Five Priority Issues in its Basic CSR Policy and has been promoting activities that address those priority issues. The working group conducted interviews with outside experts regarding the expectations and demands on the Fujitsu Group, based on an awareness of global CSR standards and social issues.

Since 2015, we have seen a further ramping up of demand for initiatives aimed at responding to challenges on a global scale, including the adoption of the Sustainable Development Goals (SDGs) by the United Nations and the coming into effect of the COP 21 Paris Agreement related to climate change. Based on the outcomes of a new analysis of the issues, in light of the business changes within the Fujitsu Group, we have also re-calibrated our sustainability issues and our framework for those issues under the banner of Global Responsible Business (GRB).

Global Responsible Business

The GRB framework aims to foster the mindset and corporate culture necessary to realize the Fujitsu Way by engaging in specific activities that address our priority issues and to earn and maintain the social trust that is a prerequisite for global business activities. All Group employees must be constantly aware that their companies are part of society and aim to not only pursue profits but also reduce the negative impact of their business activities on sustainability issues while maximizing the positive.

To achieve these objectives, we are undertaking specific actions toward achieving our targets by March 2026. Employees based at our headquarters, who are responsible for each of the priority issues, helped formulate these targets, while personnel in overseas regions with similar responsibilities also provided input in this regard. These actions will enable us to carry out activities at a higher level globally while still taking into account the differences between countries and regions in such areas as local laws and labor markets.

Raising Awareness and Disseminating Information Internally and Externally

To realize our corporate purpose, we engage in businesses that have a beneficial impact on resolving challenges in society, and to conduct our operations in a responsible manner throughout all business activities, we are implementing a range of measures to raise awareness and enhance our employees' understanding of GRB. In addition, we disseminate information outside the company to convey to stakeholders the Fujitsu Group's position on sustainability management and related initiatives.

- At internal and external events and presentations, we introduce the non-financial framework around Fujitsu's sustainability management and explain how an executive leader has been appointed for each of the priority issues as we implement initiatives on a global basis.

- Employee understanding is further enhanced through our intranet sites in both Japanese and English, which are updated as required by GRB operations staff.

- We use engagement surveys and questionnaires at events to collect employee feedback relating to sustainability, and use that feedback to inform policy formulation and implementation both internally and externally.

- In terms of business involvement, we incorporate the GRB perspective in our proposal process to help our customers solve their sustainability-related management issues. Contents on GRB initiatives such as environment and well-being are included in the proposal materials provided to customers, as we work to promote further usage and deployment in frontline business interactions.

Reference :

- [GRB Goals and Achievements for FY2025](#) ›

- [Materiality](#) ›

GRB (Global Responsible Business) Goals for FY2025

Click here for "GRB（Global Responsible Business）Goals and Achievements for FY2022"

GRB Goals

Priority issue	"WHAT FUJITSU ASPIRES TO BE" and "GOALS FOR FY2025"	Major Achievements in FY2023
Human Rights and DE&I	◆Human Rights In both the real-world and digital societies, consideration for "human dignity" is reflected in all our corporate activities and we constantly work to "create human-centric value".	• Conducted e-learning on "Business and Human Rights" for new employees and career hires Attendance rate: 77% • Held a dialogue with external experts on Fujitsu Group's Business and Human Rights initiatives (March 2024)

Priority issue	"WHAT FUJITSU ASPIRES TO BE" and "GOALS FOR FY2025"	Major Achievements in FY2023
Human Rights and DE&I	<Goals> Prevent and mitigate Human Rights risks throughout our value chain • Conduct continuous Human Rights e-learning courses (maintain an attendance rate of 90% or more) • Hold annual Stakeholder Dialogue sessions • Work with our partners, customers and NGOs to establish activities that enable Human Rights, using Fujitsu's expertise and technologies	
	◆Diversity, Equity & Inclusion (DE&I) Be a responsible business that reflects the diversity of our world. Build an inclusive and equitable culture where everyone belongs and can be completely themselves. We will celebrate di.ference and ensure that people can succeed regardless of their personal identity. Through inclusive design and innovation, we will endeavor to make a positive impact within society and empower each other to make the world more sustainable.	• Employee engagement "Respect for individuals" improved by 73 points (+2 YoY) "Equal opportunity" improved by 71 points (+1 YoY) • Increased the ratio of women in leadership roles to 15.75% (March 2024) • Conducted events that meet the needs of each country and region, taking into account cultural and ethnic backgrounds

Priority issue	"WHAT FUJITSU ASPIRES TO BE" and "GOALS FOR FY2025"	Major Achievements in FY2023
Human Rights and DE&I	<Goals> Ensure all employees feel supported and respected at Fujitsu regardless of age, gender, culture, ethnicity, sexual orientation, identity, and ability • Improve the average employee engagement survey score relating to the question on "Respect for individuals"by 7 points (to 80) Build an inclusive and equitable culture where everyone belongs and can be completely themselves • Improve the average employee engagement survey score relating to the question on "Equal opportunity"by 4 points (to 74) Have equal representation of women in Fujitsu with an additional focus on leadership roles • Increase the ratio of women in leadership roles to 20% across Fujitsu	• Shared messages from top management to create an accommodating workplace environment for LGBTI+ employees; held "Pride Month" in each of our global regions • Developed an "Accessibility Statement" that covers brand communication, customer experience, and the workplace

Priority issue	"WHAT FUJITSU ASPIRES TO BE" and "GOALS FOR FY2025"	Major Achievements in FY2023
Human Rights and DE&I	Reflect the societies we work in, from executive level downwards and promote respect and tolerance to achieve a culturally aware and unbiased work environment • Build and deliver an integrated, holistic strategy for Culture and Ethnicity which is globally relevant and incorporates local initiatives Drive LGBTI+ inclusion best practice to support employees and their families across all Fujitsu locations • Implement FWEI (Fujitsu Workplace Equality Index) Standards to deliver opportunity and belonging for LGBTI+ colleagues Ensure that all employees, customers, and members of society can use our solutions, products, services, and systems and can understand our communications • Advocate and improve digital accessibility as part of corporate strategy which covers brand communication, customer experience and workplace	

Priority issue	"WHAT FUJITSU ASPIRES TO BE" and "GOALS FOR FY2025"	Major Achievements in FY2023

Well-being	A state in which each of us acts on our authentic values, and progresses for a brighter future through work and life.
	<Goals>
	Each employee takes concrete actions toward the realization of their own well-being
	
	• Well-being:
	  • Sending well-being messages to global for promotion understanding of well-being
	  • Development of well-being indicators
	
	• Occupational Health and Safety
	  • Zero occurrences of serious accidents
		• Shared messages to promote widespread understanding of well-being globally : Twice
		
		• Developed well-being indicators: Conducted a well-being survey (Japan)
		
		• No. of serious accidents: 0

Priority issue	"WHAT FUJITSU ASPIRES TO BE" and "GOALS FOR FY2025"	Major Achievements in FY2023

Environment	Fujitsu will fulfill its social responsibilities as a global corporate SX leader. In addition to achieving our carbon neutrality goals, we will solve various environmental challenges by providing innovative solutions through co-creation with our customers.
	
	<Goals>
	Fulfill our social responsibilities and help to resolve environmental challenges
	
	- Reduce greenhouse gas (GHG) emissions from Fujitsu facilities and the supply chain with the aim of achieving the Science Based Targets initiative (SBTi) Net-Zero Standard
	- Avoid risks associated with our business activities and minimize our impact on the environment
		- Greenhouse gas emissions reduction rate:
		  - Actual reduction of 41.6% resulting the emission to be down to 330,000 tons, compared to the target of at least a 30.0% reduction (down to 396,000 tons) (approx. 10.0% annual reduction against the FY2020 baseline.)
		  - Renewable energy usage ratio: Actual 42.7% compared to a target of at least 37%

Priority issue	"WHAT FUJITSU ASPIRES TO BE" and "GOALS FOR FY2025"	Major Achievements in FY2023

Environment	• Help to resolve environmental challenges for customers and society through our business operations
	→Specific targets are set in the Fujitsu Group Environmental Action Plan (Stage XI)
		• Avoided risks and minimized our impact on the environment:
		  • Water usage: Actual reduction of 59 thousand m^3 compared to a target reduction of at least 19 thousand m^3
		  • Developed products and services that contribute to a Circular Economy (CE) business model: Implemented workshops, etc, to brief product-line BUs on the development of CE business products and services. Requested product LOBs to set individual goals such as long-term stabilization of maintenance parts by refurbishing rental products.

Priority issue	"WHAT FUJITSU ASPIRES TO BE" and "GOALS FOR FY2025"	Major Achievements in FY2023
Environment		[Supply Chain]> • CO_2 emissions from electricity consumption during product use: Actual 34.2% reduction compared to a target 7.5% reduction (against the FY2020 baseline.) • Encouragement of GHG emissions reduction in the supply chain: 54.0% of our major the Fujitsu Group's key partners set emissions reduction targets (SBT WB 2°C-aligned), as against a target of at least 50.0% • CO_2 emission reduction and water resource conservation in the upstream supply chain: 100% completion of call to action for our key partners

Priority issue	"WHAT FUJITSU ASPIRES TO BE" and "GOALS FOR FY2025"	Major Achievements in FY2023
		• Helped to resolve environmental challenges for customers and society through our business operations • Participation in WBCSD Partnership for Carbon Transparency (PACT) Program enabled expansion of global supply chain implementation, including successful net zero initiatives achieved through data linkage and visualization of CO_2 emissions across the supply chain
Compliance	Ensure that all officers and employees within the Fujitsu Group conduct their business activities with a high level of compliance awareness, and through those activities the Fujitsu Group becomes a trusted corporate group that is chosen by stakeholders for investment, business transactions, and employment and that fulfills its role as a model for society.	

Priority issue	"WHAT FUJITSU ASPIRES TO BE" and "GOALS FOR FY2025"	Major Achievements in FY2023
Compliance	<Goals> To ensure that the entire organization is familiar with the Fujitsu Way Code of Conduct, relating to compliance, the Global Compliance Program (GCP) will be implemented throughout the Group to instill a high level of awareness toward compliance. The management team will take the lead in fostering a corporate culture where no employees tolerate any kind of misconduct (Zero Tolerance). We will expand our corporate activities in accordance with the GCP and also seek the understanding of all stakeholders involved in our business • Send out annual messages on the importance of compliance from management in Fujitsu's head office, including the CEO, and from the heads of Group companies in each country • Provide annual compliance training to more than 100 business partners • Prevent bribery and cartels from occurring	• Sent out messages to all employees from the CEO, the heads of each business region, and presidents of Group companies in each country on the importance of compliance at Fujitsu Compliance Week to coincide with International Anti-Corruption Day • Provided compliance training to 211 business partners • Confirmed cases of bribery and/or cartel activity: 0

Priority issue	"WHAT FUJITSU ASPIRES TO BE" and "GOALS FOR FY2025"	Major Achievements in FY2023

Supply Chain	The Fujitsu Group will realize a responsible supply chain that takes into consideration human rights, health and safety, and the environment and also ensures diversity.
	<Goals>
	Prevent and reduce human rights risks in the supply chain
	
	• To prevent problems from occurring, create a system that promotes visualization of suppliers and identification of issues in parallel with requests for compliance with procurement guidelines
		• Prevented and reduced human rights risks in the supply chain
		
		  • Released new procurement guidelines; obtained written consent to guidelines from 220 suppliers; evaluated digital tools for obtaining risk information
		
		• Promoted GHG emission reductions in the supply chain
		
		  • Completed the setting of emissions reduction targets for 54% of major suppliers in FY2022 (based on procurement amount)

Priority issue	"WHAT FUJITSU ASPIRES TO BE" and "GOALS FOR FY2025"	Major Achievements in FY2023

Supply Chain	Promote GHG emission reductions in the supply chain
	
	• Request major suppliers to set numerical targets in line with international standards in order to jointly promote GHG emission reductions (The goal is that emission reduction targets equivalent to SBT WB2°C be set by major suppliers)
	
	Ensure supply chain diversity
	
	• Establish diversity indicators and activities based on the social needs in each region and country
	
	• Create a system to measure the status of supplier initiatives, with activities in Japan defined as women's empowerment
		• Ensured supply chain diversity
		
		  • Achieved procurement KPIs in the UK, Americas, and Oceania from companies with a diverse set of attributes (eg, SMEs, women-owned/led businesses, minority-owned businesses)
		
		  • Held briefing sessions on promoting women's empowerment and asked companies to register in the Ministry of Health, Labour and Welfare's "Database on Promotion of Women's Participation and Advancement in the Workplace" (271 companies participated; 262 companies have registered)

Priority issue	"WHAT FUJITSU ASPIRES TO BE" and "GOALS FOR FY2025"	Major Achievements in FY2023
Community	Every employee is increasing their empathy for social issues and engaging in activities through collaboration and co-creation with a wide range of stakeholders, making a significant and positive impact on society, thereby creating growth opportunities for Fujitsu and contributing to the realization of Our Purpose. <Goals> Foster our corporate culture for community activities* and make an impact on society • Employees participate in community activities (20% of employees) *Community activities: Activities aimed at creating value by resolving challenges in society through global cooperation with local communities, which are important stakeholders	• Employees participated in community activities (19.8% o f employees)

SDG-related Activities in Fujitsu

SDG-related Activities in Fujitsu

The Sustainable Development Goals (SDGs) adopted by the United Nations in 2015 ar e a set of common goals to be achieved worldwide by 2030. Fujitsu's purpose is "to make the world more sustainable by building trust in society through innovation" and our company has made a commitment, both internally and externally, to contribute to achieving the SDGs. As a global enterprise that for decades has leveraged technology to create value for society, Fujitsu has a responsibility to proactively contribute to societal transformation. To help make the world more sustainable, we aim to generate larger and more bene.icial impacts for society, which will also help to spur ongoing sustainable corporate growth. In the Medium-Term Management Plan released in May 2023, we set out our vision for 2030 of being "a technology company that realizes net positive (*1) through digital services". To achieve this vision, our aim is to contribute to the SDGs by working on the Essential Contributions to Materiality: Solving global environmental issues, developing a digital society, and improving people's well-being.

Fujitsu believes the SDGs essentially define a system transformation that must be achieved by 2030 so that the predicted global population of more than 9 billion by 2050 will be able to live well, within the limitations of our planet. The issues highlighted in the SDGs involve a complex web of environmental, social, and economic elements. One key to solving these inherent problems is through society-wide digital transformation (DX). Fujitsu will harness the power of digital technology to create ecosystems that transcend industry boundaries and assist in the transformation of our customers and our own organizations, while playing a part in delivering fundamental changes to the way society interacts and contributes to the resolution of societal challenges.

The SDGs are an overarching framework of global social and environmental needs and form a common language for all stakeholders. Fujitsu will use its efforts to realize the SDGs as an opportunity for co-creation with a wide range of stakeholders, including international agencies, national and regional governments, private companies, non-governmental organizations (NGOs), and non-profit organizations (NPOs). By embracing a multifaceted approach to societal challenges, we can create and maximize positive impacts on an even larger scale.

*1 Fujitsu defines net positive as follows: "In addition to maximizing financial returns, we are committed to solving global environmental problems, developing a digital society, and improving people's well-being. Technology and innovation will have a positive impact on society as a whole."

- [Value Creation Model](#) ›

Practical Application Within Fujitsu

We have built a framework that prompts all our employees to consider which of the 169 t argets defined in the SDGs are relevant to our services and solutions when they are engaged in product planning and business discussions and when they issue press releases.
The objective is to make our employees routinely conscious of whether they are contributing to achieving the SDGs so that they approach their business activities from the standpoint of addressing social issues.

Fujitsu's Commitment to the Sustainable Development Goals (SDGs)

The Sustainable Development Goals (SDGs) adopted by the United Nations in 2015 represent a set of common goals to be achieved worldwide by 2030. Fujitsu's purpose —"to make the world more sustainable by buildingtrust in society through innovation" — is a promise to contribute to thevision of a better future empowered by the SDGs

Using Digital Technology and Services to Contribute to the SDGs

Supercomputer Fugaku technology supporting detailed prediction of meteorological disasters and helping build resilient societies

With the growing number of meteorological disasters in recent years, highly accurate predictions have become increasingly important in minimizing the damage caused. The Japan Meteorological Agency (JMA) collects and analyzes both domestic and international observations of events such as torrential rain, earthquakes and tsunamis, which it uses to generate disaster prevention and meteorological data on a daily basis. Providing this data to disaster prevention agencies and to citizens contributes to disaster preparedness and helps maintain traffic safety. However, the August 2018 a nd March 2023 meetings of the Council for Transport Policy's Environment subcommittee highlighted the need to further enhance the accuracy of forecasting and promote the sharing and use of data with private-sector enterprises and research facilities.
Fujitsu has some 20 years' of experience operating community systems such as the JMA's ADESS (*2) and AMeDAS Center systems (*3). Fujitsu's PRIMEHPC FX1000 (*4) uses the same technology as the Supercomputer Fugaku (*5). This supercomputer system introduced in 2023 enables to improve the accuracy of linear rainband prediction. We followed this by building a new 11th- generation supercomputer system that incorporates the PRIMERGY CX400 M7 (*6) servers, and the new began operating in March 2024.

Integrating an 11th- generation supercomputer system and a Linear precipitation zone prediction Supercomputer provided apporximately four times the computing capacity of the previous system. This made it possible to both improve prediction accuracy for linear rainbands and conduct research aimed at gaining a clearer understanding of linear rainbands. It also enabled the sharing of large volumes of meteorological data.

In its Numerical Weather Prediction (NWP) Strategic Plan Toward 2030 (*7), the JMA promotes the development of numerical weather prediction technology for four target areas: prevention of disasters caused by heavy rain, prevention of disasters caused by typhoons, contributions to socioeconomic activity, and adaptation to global warming.

Fujitsu is a Sustainability Transformation (SX) partner supporting the work of the JMA, where stable operation 24 hours a day, 365 days a year, is essential. As such, we work with the Agency with the aims of providing highly accurate prediction of meteorological disasters and building resilient communities.

11th- generation supercomputer system (*8)

Linear precipitation zone prediction Supercomputer

*2   ADESS: The Japan Meteorological Agency's weather data transmission processing system

*3   AMeDAS Center System: The Japan Meteorological Agency's integrated processing system for AMeDAS data collected from regional weather observation systems.

*4   FUJITSU Supercomputer PRIMEHPC FX1000: Equipped with an A64FX CPU that uses Scalable Vector Extension (SVE), which extends the Armv8-A instruction set architecture for supercomputers. Offers both high performance levels per unit of power along with extremely high computing efficiency using the enormous memory bandwidth provided by the high-performance HBM2 3D stacked memory.

*5   Supercomputer Fugaku: Jointly developed by RIKEN and Fujitsu.

*6   PRIMERGY CX400 M7: Equipped with 4th generation Intel® Xeon® scalable processors. Multi-node server capable of accommodating up to four 2U-size server nodes.

*7   The Japan Meteorological Agency website "Numerical Weather Prediction (NWP) Strategic Plan Toward 2030 📄 "

*8 Cabinet-design NAPS: The NAPS name on the panel of the main unit is not a Fujitsu trademark and was coined by the Japan Meteorological Agency for their Numerical Analysis and Prediction System, which includes this system.

- <u>Fujitsu delivers new supercomputer system to Japan Meteorological Agency to improve prediction accuracy for typhoons and torrential rain</u> >

- <u>Fujitsu provides supercomputer system to the Japan Meteorological Agency for forecasting of linear rainbands and torrential rains</u> >

Key SDGs related to this project

Optical Network Business Initiatives Working Towards a Decarbonized Society

With the nationwide roll-out of 5G services in Japan, users are increasingly turning towards services that support high data capacities for large data files such as video. This is expected to further increase power consumption, which highlights the need for initiatives to help decarbonize communications providers and datacenter businesses.

To address this issue, Fujitsu has been focusing its energies on developing the industry leading optical transmission technology to enable large capacity and low power consumption. This technology has now been adopted by major network service providers in Japan. NTT Group is building a next-generation network with Fujitsu's optical transmission system that leverages liquid cooling technology. KDDI and SoftBank have also newly deployed Fujitsu solutions to boost the capacity of their network infrastructure, while significantly reducing their power consumption and decarbonizing their entire optical network.

- 1FINITY
  Fujitsu 1FINITY -series Open Line System which can be connected to third-party products through an open interface realizes configuring network that integrates the IP layer and optical transmission layer (*9). This allows optical connections with routers and between optical core networks. 1FINITY series can also provide flexibility to accommodate data traffic increase, as it deploys disaggregation architecture for easy capacity expansion. In addition, the 1FINITY Ultra Optical System uses liquid cooling technology -- a world's first in optical transmission equipment -- enabling world-leading data capacity and reduced power consumption, thereby contributing to the goal of carbon neutrality.

Fujitsu will continue to leverage its advanced technology to address the issues facing communities and people, helping to build a society that will meet the Sustainable Development Goals (SDGs).
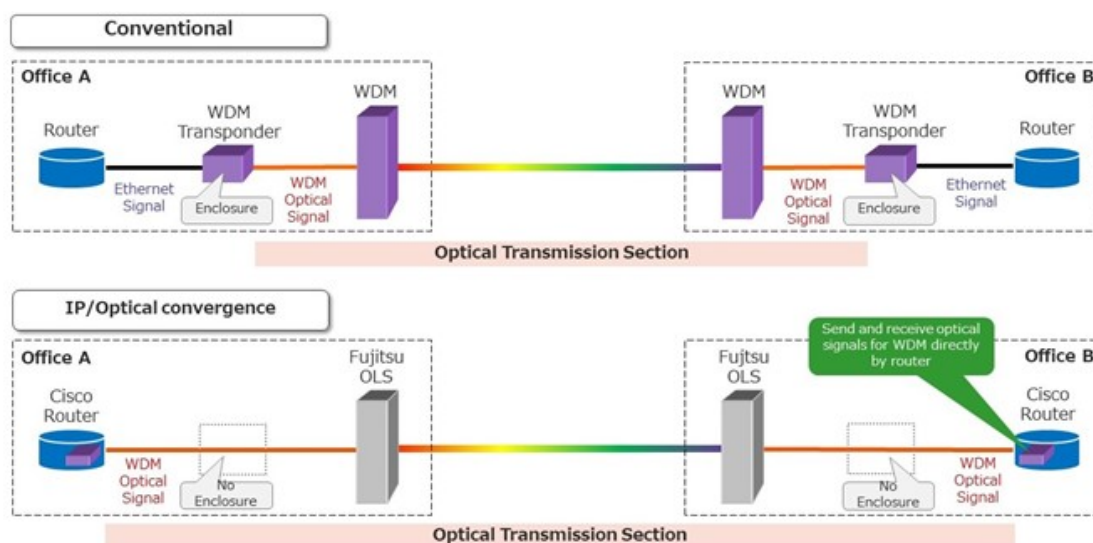
Difference between conventional configuration and IP /Optical layer convergence (KDDI case)

*9 Refers to configurations that use OLS and WDM for transmission where optical signals for WDM are sent directly from the router.

- [Fujitsu 1FINITY ™ Ultra Optical System selected by NTT for next Japan-wide core network](#) ›

- [KDDI, Cisco, and Fujitsu start full-scale operation of telecommunications network to reduce power consumption by approximately 40%](#) ›

- [SoftBank Corp. completes nationwide expansion of all optical network in core areas in Japan leveraging Fujitsu's disaggregation-type optical transmission system](#) ›

Key SDGs related to this project

AI technology to detect pancreatic cancer from non-contrast CT scans -- Contributing to a healthier society --

Pancreatic cancer is a disease that is difficult to detect in the early stages, and it has proven difficult to establish a technology capable of identifying cancers beyond all doubt and thereby increasing the opportunities for detection in the initial stages.

To address this problem, Fujitsu has been collaborating since April 2022 with the Southern TOHOKU General Hospital (*10) and others to promote the development of AI technology to detect pancreatic cancer from non-contrast CT scans, such as those widely carried out during general health checks and similar procedures.

Due to the low levels of contrast in non-contrast CT scans, it has always been difficult to identify the location of the pancreas and detect cancers. So, Fujitsu has used AI to develop a technology that estimates the continuity across adjacent cross-sectional scans, taking into account the patient's anatomy. It automatically conducts three-dimensional analysis in areas with strong continuity in the images and planar analysis in areas with weak continuity. The results of evaluations of the CT scans from the Southern TOHOKU General Hospital show that locations where cancer is suspected in the pancreas area were successfully detected with 90% accuracy.

This AI technology is the result of the use of converging technologies (*11) that integrate Fujitsu's image analysis technology with the clinical observations made by the Southern TOHOKU General Hospital, and is likely to make a significant contribution to improving the early discovery of pancreatic cancer. In 2023, this technology was unveiled to over 20,000 physicians and other participants at JDDW 2023 (*12), where it demonstrated the advanced level of the technology addressing social needs.

Fujitsu will continue to make its research findings available to treatment and health-promotion services as part of our contribution towards building healthy communities.
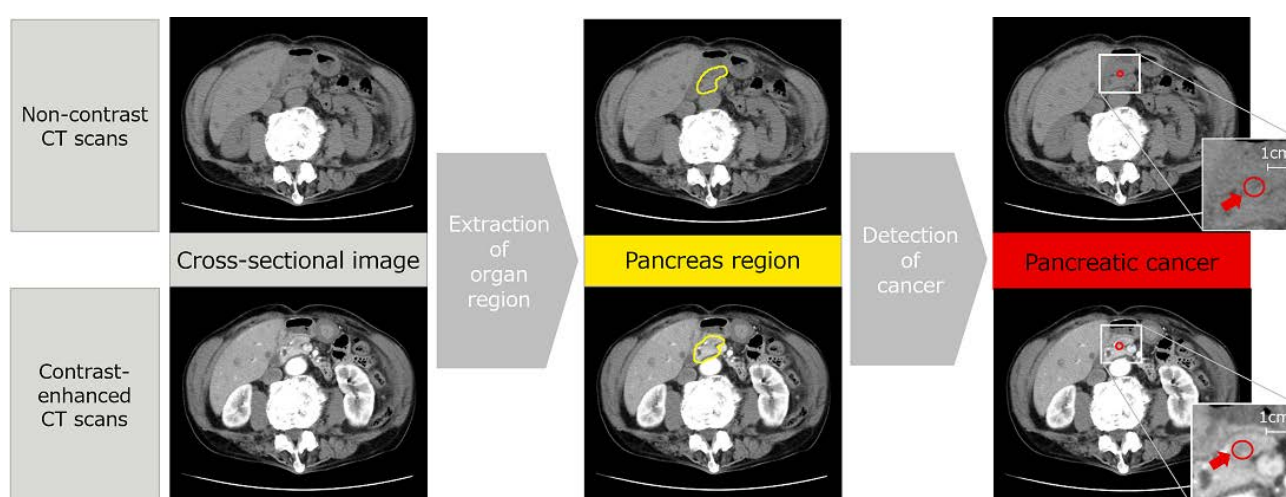
Detection of suspected pancreatic cancer using the newly developed technology

*10   Southern TOHOKU General Hospital: Located in Koriyama City, Fukushima Prefecture, Japan; Founder and Chairman: Dr. Kazuo Watanabe

*11   Converging technologies: A focus area for Fujitsu R&D, this is a field where science and technology from two or more different sectors are combined in a single technology to achieve a specific goal

*12   JDDW2023 : https://www.jddw.jp/jddw2023/en/index.html 🗔

- [Fujitsu and Southern Tohoku General Hospital start joint research on AI technology for detecting pancreatic cancer from non-contrast CT scans](#) ›

Key SDGs related to this project

Launch of a smartphone-based integrated information sharing system to support on-site fire-fighting and first-aid activities

When Fire-Fighters and Emergency Medical Technicians are on the scene of an accident, they can check the details of notifications and instructions in on-board devices known as Automatic Vehicle Monitoring (AVM) systems installed in the vehicles. However, these systems are fixed in place and not portable, and are also expensive to install, both of which are issues making their installation in all vehicles difficult. Also, to enhance fire-fighting forces and cope with the increasing number of emergency call-outs, there is demand for reduced workloads and effective information sharing through the use of smart devices in order to reduce employee fatigue and eliminate workforce shortages.
To address these issues, Fujitsu has used its expertise in building Fire-Fighting command systems to develop a smartphone-based integrated information sharing system that Fire-Fighters and Emergency Medical Technicians can use on-site at accidents and other disasters.
This system provides a wide range of functions to support fire-fighters and paramedics right from the initial call-out through to writing up their reports. This includes a push notification function that uses vibrations to prevent miscommunication in radio calls and missed notifications involving vital information, a timeline function that uses a chat function to share real-time status updates from the different services even after responders have exited their vehicles, and a function that records data such as casualties' vital signs and treatment details to assist responders in generating incident reports after they leave the scene.

The system also includes a function for reserving the water source (*13) that allows the availability of fire hydrants to be shared with other fire engines, a name search function to assist in selecting a destination medical institution, and search filtering functions that enables paramedics to select for specific hospital departments, such as internal medicine or pediatrics. In the event of a emergency such as a large-scale disaster situation, this system allows flexible vehicle operation. For example, it can be used as an AVM system in transport vehicles not normally equipped with AVM, such as loudspeaker vans and shipping vehicles. Going forward, Fujitsu will continue to support the on-site activities of fire and ambulance services, contributing to the establishment of resilient communities where citizens can enjoy rich and secure lives.

Screenshots of the timeline and casualty data recording functions

Screenshots of the water supply reservation function and filtered search function for destination medical institutions

*13 Because each fire hydrant can only be used by one vehicle during fire-fighting activities, this function reserves fire hydrants so that firefighting vehicles can share information on which vehicle is using which fire hydrant in advance.

- Launch of a smartphone-based integrated information sharing system to support on-site fire-fighting and first-aid activities ›

Key SDGs related to this projec

Technology to solve both high electricity consumption and global GPU shortage as global demand for AI increases

Demand for AI is currently increasing at a dramatic rate worldwide. However, due to the enormous amounts of computing power and electricity required to make advanced AI a reality, there are serious concerns about the environmental impacts of developing and running AI. Another important and emerging issue is the global supply shortage of the GPU chips that are essential for AI processing. To help resolve these issues, Fujitsu is developing and supplying the 'AI Computing Broker' middleware technology (*14), which allows AI calculations to be executed efficiently even with a small number of GPU chips. This is the world's first technology capable of identifying and prioritizing, in real-time which of multiple processes being run concurrently will achieve the greatest improvements in processing efficiency if allocated a GPU.

This technology allows AI processing to be performed with half, or even less, of the usual number of GPUs. The latest GPUs consume 700 watts of power per chip, making them the major consumers of power in AI computing. Reducing the number of GPUs used significantly reduces the power consumption in AI development and operation. For example, for the very large 10,000-GPU systems needed for large-scale AI development, annual power consumption can be reduced by as much as 30,660 MWh (*15).

Our goal at Fujitsu is to provide computing platforms that help to generate the innovations that will build a future sustainable society.
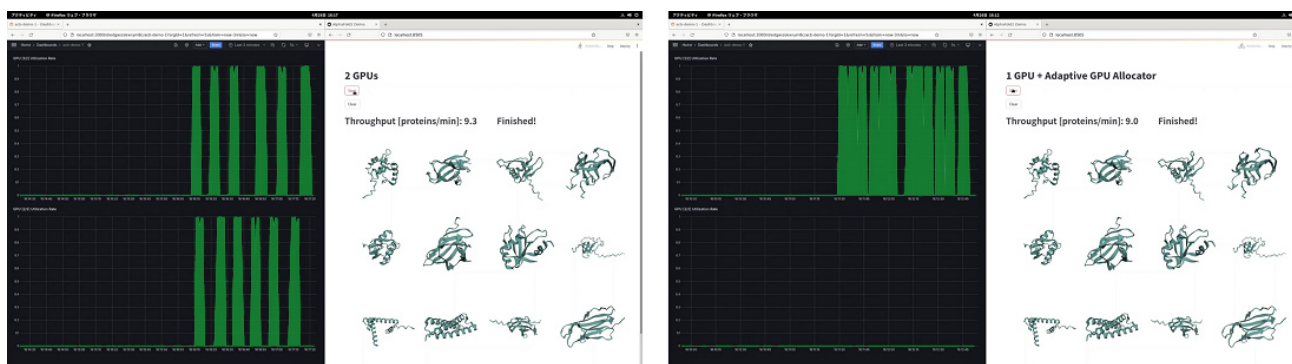
Performance evaluation demo (3D protein structure prediction)

Protein structure prediction using 2 GPUs (left image) compared with 1 GPU wi th AI Computing Broker (right image) yielded approximately the same number of predicted protein structures in 1 minu te. The GPU usage shown on the left of both screens indicates that a high level of usage was maintained when AI Computing Broker was used. (The horizontal axis in the graphs shows time elapsed.)

*14   AI Computing Broker development and supply: Currently provided to pilot users

*15   Annual power consumption reduction of 30,660 MWh: This is equivalent to the annual power consumption of around 5,400 4-person households in Japan. <Annual power consumption by a 4-person household of around 5,700kWh): Calculated using the Japanese Ministry of the Environment's Survey on the Actual Conditions of Carbon Dioxide Emissions from Residential Sector in FY2022>

- [Fujitsu develops world's first technology for real time CPU and GPU processing optimization to address global GPU shortage](#) ›

Key SDGs related to this project

United Nations Global Compact

Fujitsu announced its support of the United Nations Global Compact in December 2009. The Fujitsu Group is committed to global sustainability Activities that uphold the 10 principles of the Global Compact. Through this commitment, we will meet the demands of various stakeholders in international society, and uphold responsible management as a true global ICT company contributing to the creation of a sustainable society.

What is the Global Compact?

＜The 10 principles of the UN Global Compact＞

The UN Global Compact consists of 10 principles in the four areas of human rights, labor, the environment, and anti-corruption with which companies should rigorously comply.

Human Rights

Principle 1: B usinesses should support and respect the protection of internationally proclaimed human rights; and

Principle 2: make sure that they are not complicit in human rights abuses.

Labor

Principle 3: Businesses should uphold the freedom of association and the effective recognition of the right to collective bargaining;

Principle 4: the elimination of all forms of forced and compulsory labor;

Principle 5: the effective abolition of child labor; and

Principle 6: the elimination of discrimination in respect of employment and occupation.

Environment

Principle 7: Businesses should support a precautionary approach to environmental challenges;

Principle 8: undertake initiatives to promote greater environmental responsibility; and

Principle 9: encourage the development and diffusion of environmentally friendly technologies.

Anti-Corruption

Principle 10: Businesses should work against corruption in all its forms, including extortion and bribery.

Please refer to the "GRI Standard/UN Global Compact (GC) Index" for the relationship between our sustainability activities and the United Nations Global Compact, as described in the "Sustainability" sites and "Fujitsu Group Sustainability Data Book".

* We have been reporting our COP (Communication on Progress) at the Advanced Level since FY 2012.

External Recognition and Awards

Fujitsu Group continues to be highly evaluated globally for its efforts in the social and environmental fields, and has been included in the following stock indexes, and has received ESG evaluations and certifications from external organizations.

Fiscal 2023 ESG Assessment

Stock market index	Description	Logo
Dow Jones Sustainability Indices World & Asia/Pacific index	Fujitsu has been chosen for inclusion in the Dow Jones Sustainability Index (DJSI) World Index and Asia Pacific Index, the world's leading Socially Responsible Investment (SRI) index. DJSI is a stock index offered cooperatively by US-based S&P Dow Jones Indices that selects companies for their excellent sustainability, based on an analysis from the perspective of governance and economics, the environment, and society.	Member of **Dow Jones Sustainability Indices** Powered by the S&P Global CSA
Sustainability Yearbook	S&P Global annually evaluates the sustainability efforts of the world's leading companies by scoring them on a total of 100 points from governance & economic, environmental, and social dimensions based on its corporate sustainability assessment, and selects the top 15% of the top-rated companies in each industry for inclusion in The Sustainability Yearbook. This year, more than 9,300 companies worldwide were evaluated, and 759 companies were selected. Fujitsu was selected as a member in the field of IT Services.	Fujitsu Limited IT services **Sustainability Yearbook Member** S&P Global Corporate Sustainability Assessment (CSA) Score 2023 S&P Global CSA Score 2023: 72/100 Score date: February 7, 2024 The S&P Global Corporate Sustainability Assessment (CSA) Score is the S&P Global ESG Score without the inclusion of any modelling approaches. Position and scores are industry specific and reflect exclusion screening criteria. Learn more at https://www.spglobal.com/esg/csa/yearbook/methodology/ **S&P Global** Sustainable1
FTSE4Good Index Series	FTSE is an investment-related organization established by the London Stock Exchange which has created this globally-recognized SRI index that evaluates companies based on their environmental, social and governance practices. Fujitsu continues to be elected.	FTSE4Good

CDP Climate Change	International non-profit organization CDP represents a network of institutional investors that control over $136 trillion in assets. CDP scores over 23,000 companies (as of February 2024) throughout the world on their environmental action and identifies those that it rates highest as the "A List." As the rating for 2023, Fujitsu has been selected for the CDP's A List for climate change.	
CDP Supplier Engagement Rating	CDP evaluates companies responding to the CDP climate change questionnaire for supplier engagement practices on GHG emissions and climate change strategies. As the rating for 2023, Fujitsu received the highest rating, A, in the "Supplier Engagement Rating (SER)" and was certified as a "Supplier Engagement Leader Board".	
MSCI ESG Select Leaders Indexes (World)	These world-renowned ESG (Environmental, Social, Governmental) indexes were developed by global stock index provider MSCI. Companies with outstanding ESG performance are selected for the indexes, and Fujitsu has been continuingly included.	
MSCI ESG RATINGS	MSCI's ESG survey measures exposure to industry-specific ESG risks and risk management capabilities relative to peers. our company won the top prize of "AAA."	
ISS ESG Corporate Rating	Germany-based CSR ratings company ISS-oekom produces these corporate responsibility ratings which rate companies according to environment, social, and governance topics. The ratings have conferred Prime Status on Fujitsu since 2011.	
EcoVadis Silver rating	EcoVadis is the world's largest provider of business sustainability ratings, with a global network of more than 90,000 rated companies.	