

A session on *Driving change: the need for targets and transition plans in ICT sustainability* on 9 May 2024

In case of Fujitsu

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<https://www.fujitsu.com/global/>





# About Fujitsu



Tell Communications



Fuji Automatic Computer



Super Computer, AI..



## Segment

Business Segments

Service Solutions  
Hardware Solutions  
Ubiquitous Solutions  
Device Solutions

R&D Expenditure\*

109.5  
billion yen

- Year of establishment : 1935 
- Takahito Tokita Representative Director, CEO
- Revenue : 3.71 Trillion yen



## ICT Service Share



Created by Fujitsu based on Gartner Research(2023)



## Group Employee



## External Recognition



CDP Climate Change  
A List 2023

Member of  
**Dow Jones  
Sustainability Indices**

Powered by the S&P Global CSA

Selected as a component of  
Asia/Pacific Index



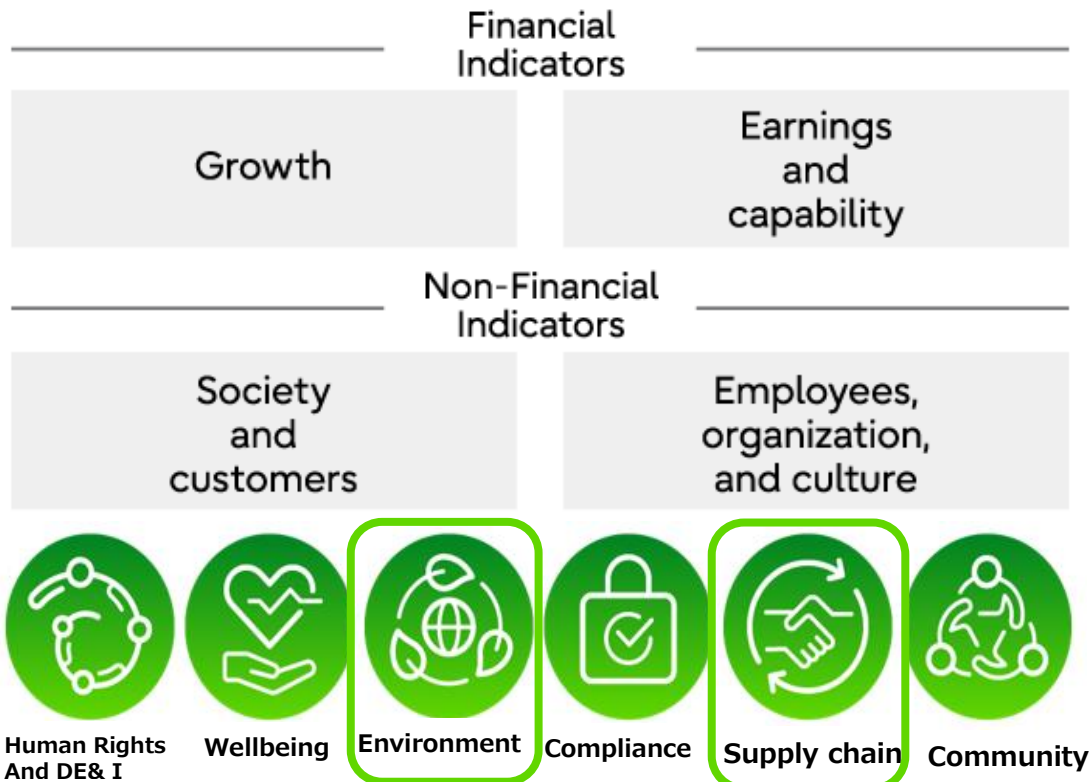
# Our Purpose

Our purpose is to make the world more sustainable by building trust in society through innovation.



# Management Direction: Financial and Non-Financial Targets

## Management Based on Our Purpose



**GRB (Global Responsible Business) :6 issues**

Stable contributions  
over the long term



Creation of growth  
opportunities

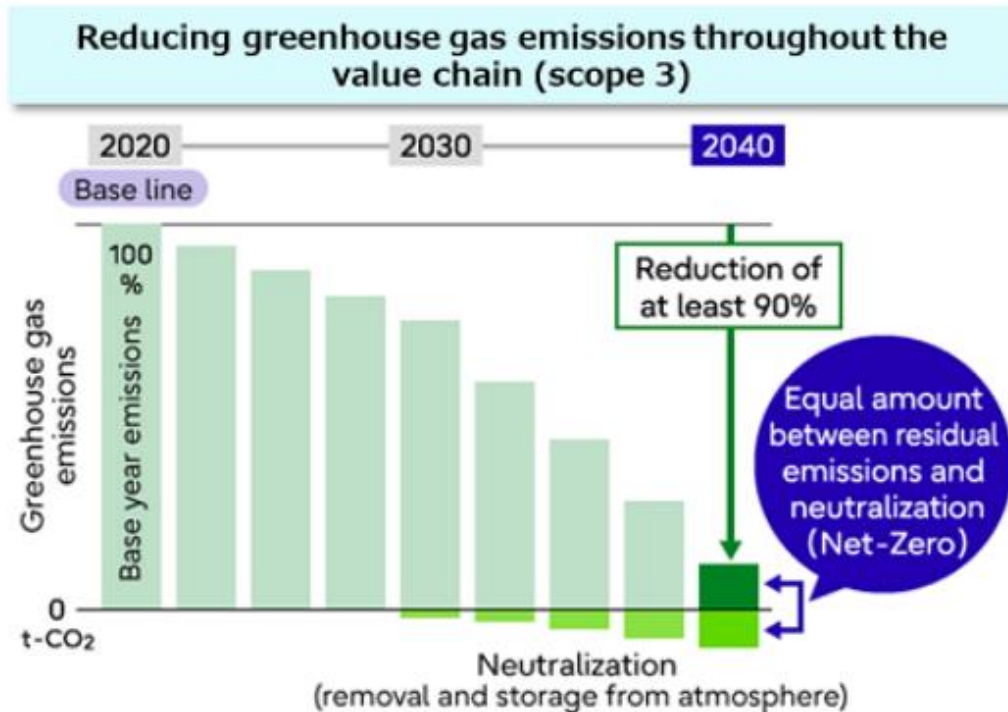
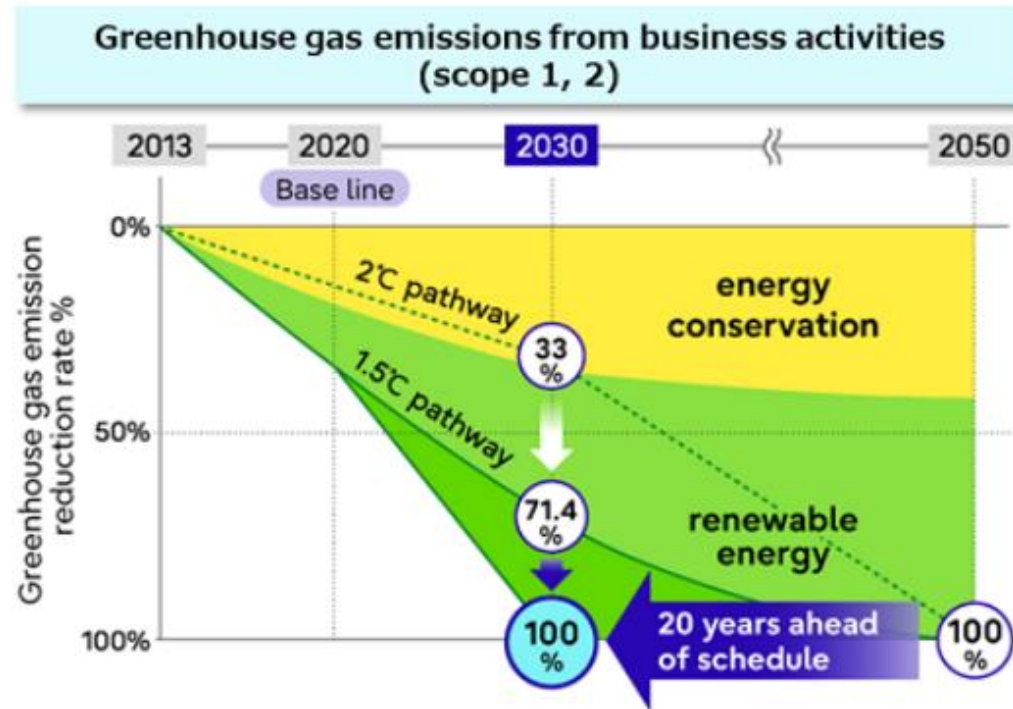
Making the world  
more sustainable

**SUSTAINABLE  
DEVELOPMENT  
GOALS**



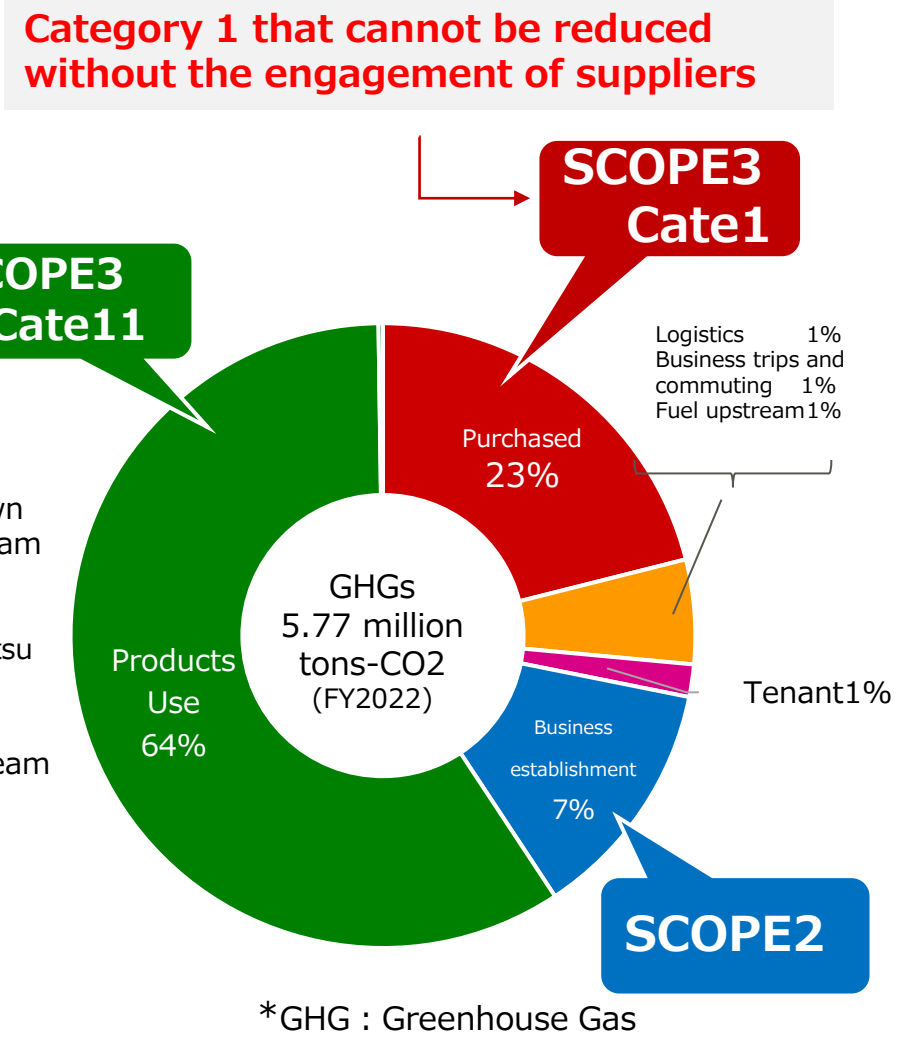
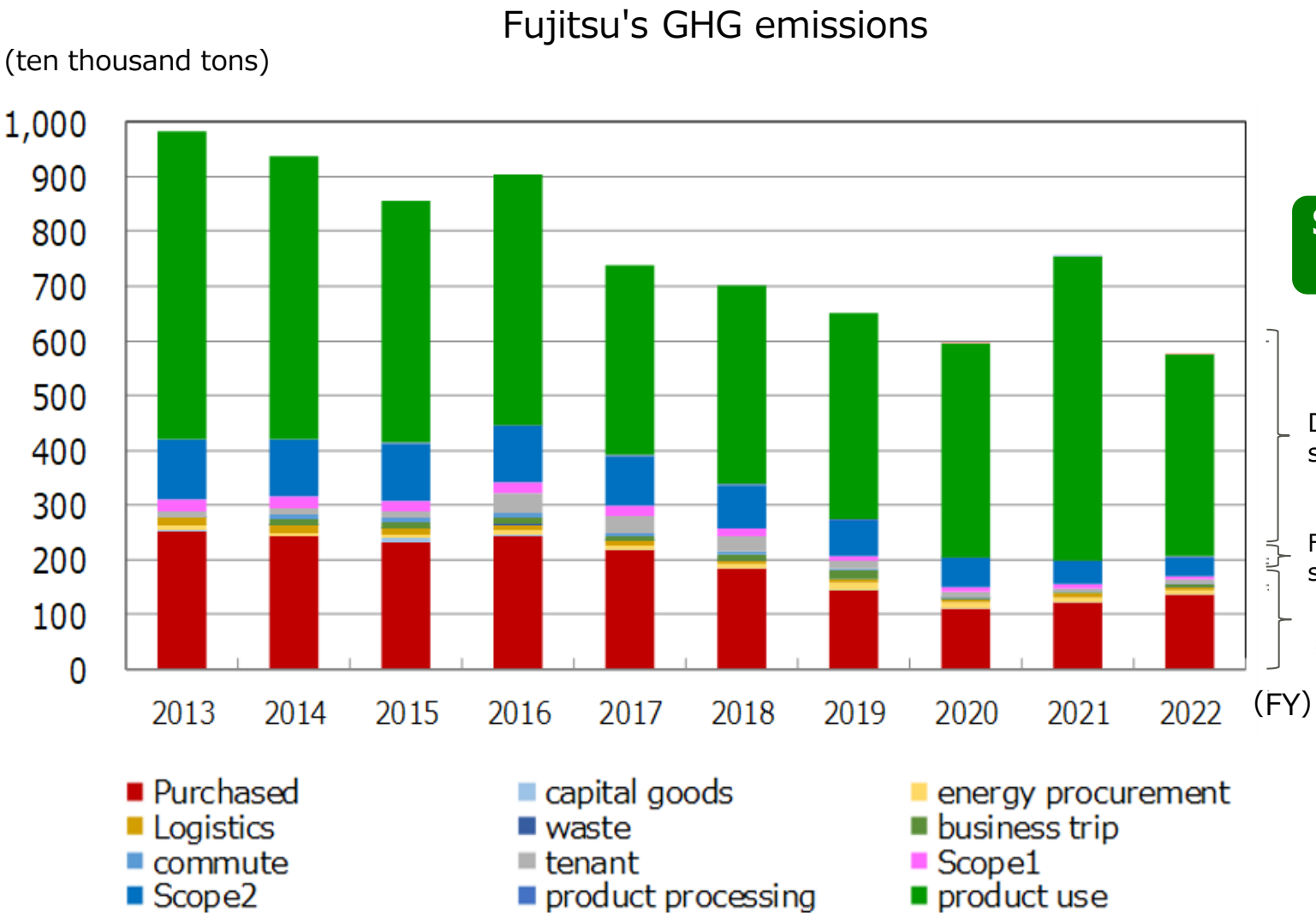
## Vision: Net zero GHG emissions in scope 3 by FY 2040 (Baseline in FY 2020)

- Fujitsu accelerates plans to achieve net zero greenhouse gas emissions across its supply chain, setting fiscal 2040 as new target. SBTi certifies Fujitsu's GHG emissions reductions target (Tokyo, August 28, 2023)



Fujitsu's roadmap toward carbon neutrality







➤ Introduction of a new power supply infrastructure at the base and fuel cells to promote energy conservation

(Kumagaya Service Solution Center of FUJITSU FRONTTECH LIMITED)

- In line with the renewal of the power receiving and transforming facilities, the uninterruptible power supply facilities were drastically overhauled and replaced with fuel cells.
- LNG is reformed to generate hydrogen, which reacts with oxygen to generate electricity. This is the first Fujitsu Group installation in Japan.
- 55% of the total electricity consumption at all sites is always shared from fuel cells. Reduce annual CO2 emissions by approximately 35%

➤ Measures as a self-effort

- **energy non-fossilization**
- Introduction of high-efficiency air conditioners and LED lighting

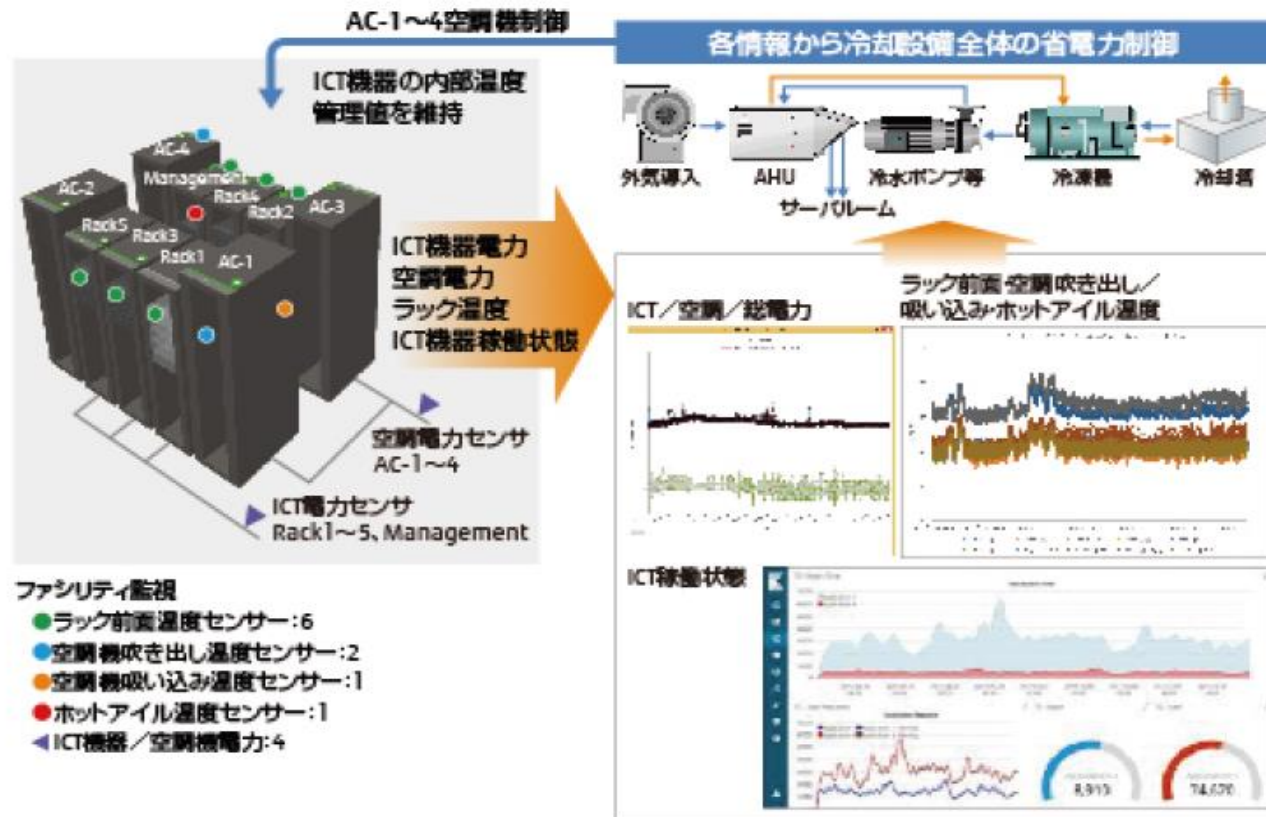


fuel cell body



# Scope1&2 :Energy Conservation Efforts at DC using AI and promoting Renewable Energy

- In addition to our efforts to optimize air conditioning equipment and optimize air flow by improving the installation environment, we will work to further optimize using AI.
- **Promoting Renewable Energy : Joined the RE 100 Initiative in 2018**
- **“FUJITSU Hybrid IT Service FJcloud” using 100% Renewable Energy.**



- JIT (Just In Time) modeling is used to predict the temperature and humidity after one hour based on the outside air environment and the temperature, humidity, and power data inside the server to control turning on and off of outside air cooling.
- **29% reduction in air-conditioning power consumption**
- We will continue to expand the scope of control in the future.



# Scope 1,2,3 : Sustainable Products

## Environmental Labels (EPEAT\*)



- ✓ Server: **Silver**
- ✓ PC(Monitor/Desktop/Notebook): **Gold**
- ✓ Join the Expert Ad-Hoc Groups and Technical Committee to discuss new rule-Making for sustainable requirements

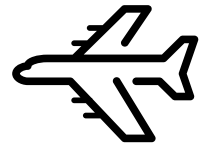
### \*EPEAT: Electronic Products Environmental Assessment Tool

There are mandatory and optional requirements and of points earned. Rated 3(Gold/Silver/Bronze). **US Governmental sustainable Procurement Standards** for Governments, Municipalities, Universities, etc. in US, also is getting popular in Canada, Australia, and Europe.



## Use of renewable energy at factory

- ✓ Shimane Fujitsu Co., Ltd., a notebook computer manufacturing factory
- ✓ **Work to use renewable energy at our own factory**
- ✓ Using **SAF(Sustainable Aviation Fuel)** from Japan to Europe.



## Reduction of CO2 emissions through light weight and long battery life

- ✓ Reviewing materials and factories on a zero basis, achieving **weight reduction**, and **enabling long battery life** through **energy-saving design**
- ✓ Providing products that are **light in weight** and can be driven for long periods of time to save resources, **reduce CO2 emissions during transportation, and save energy to customers**

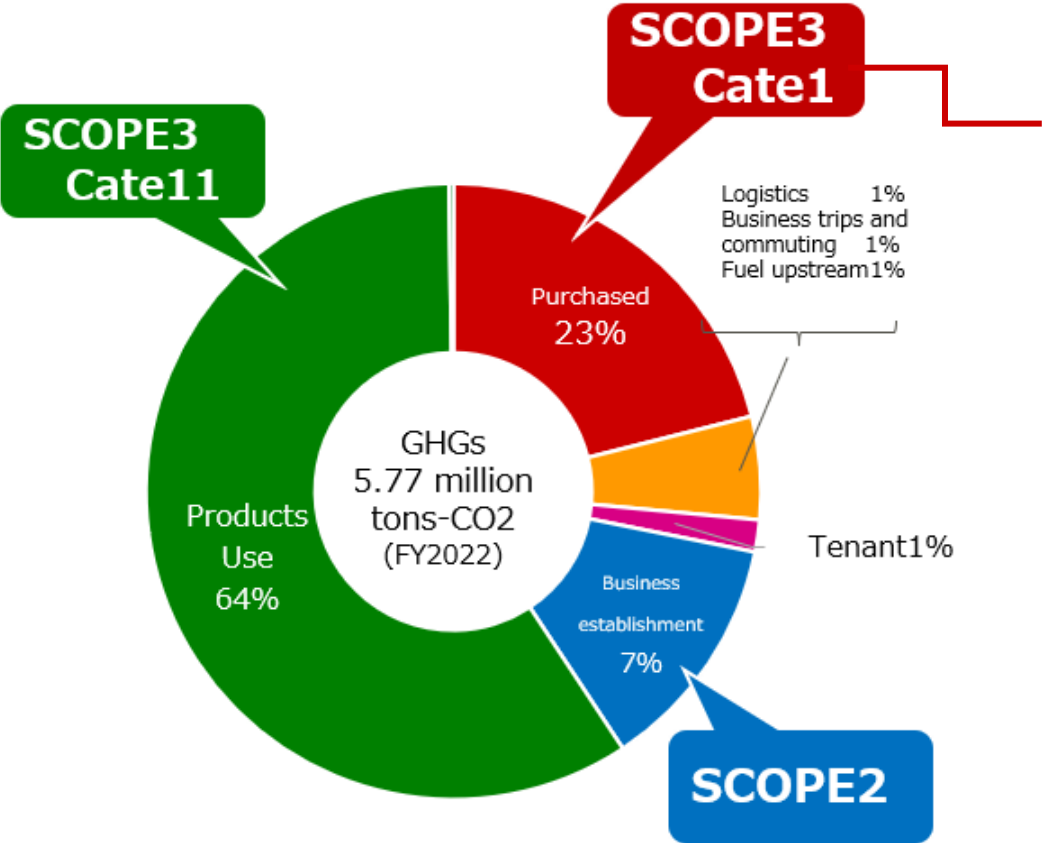
World's lightest \*  
**634 g \* 2**



Fujitsu Server PRIMERGY  
CX2560 M7



# Scope3 Category 1: Current actions



Category1 = [The procurement volume]  
x [Emissions per unit of purchase]  
➡The results of supplier's efforts do not lead to the calculation of Scope 3 category 1 CO2 emissions from parts and materials.

\*GHG : Greenhouse Gas

We Joined the WBCSD PACT\* Program in 2022.

\*PACT (Partnership for Carbon Transparency)



# WBCSD PACT's PACT Program

## Successfully launching world's first societal implementation



## Aiming for net zero through visualization and data linkage of CO2 emissions throughout the entire supply chain

### Background

- The CO2 emissions derived from suppliers (Scope 3 Category1) are primary calculated using the intensity derived from the purchase price. Even when products are procured from companies that are making an effort to reduce their emissions, there is no rule allowing the reduction in emissions to be reflected in the calculation.
- PCF (\*1) calculations for each component based on a standardized method and data linkage among companies using a universal format is needed. Standardization across all industries is a longstanding issue.
- Regarding the PCF calculations and data linkage technology specifications, WBCSD (\*2) launched PACT (\*3) in June of 2021. Fujitsu has participated in rulemaking discussions as a member of PACT since November 2022.

\*1: PCF :Product Carbon Footprint

\*2: WBCSD : The World Business Council for Sustainable Development

\*3: PACT (Partnership for Carbon Transparency)



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# WBCSD PACT\* Implementation Program

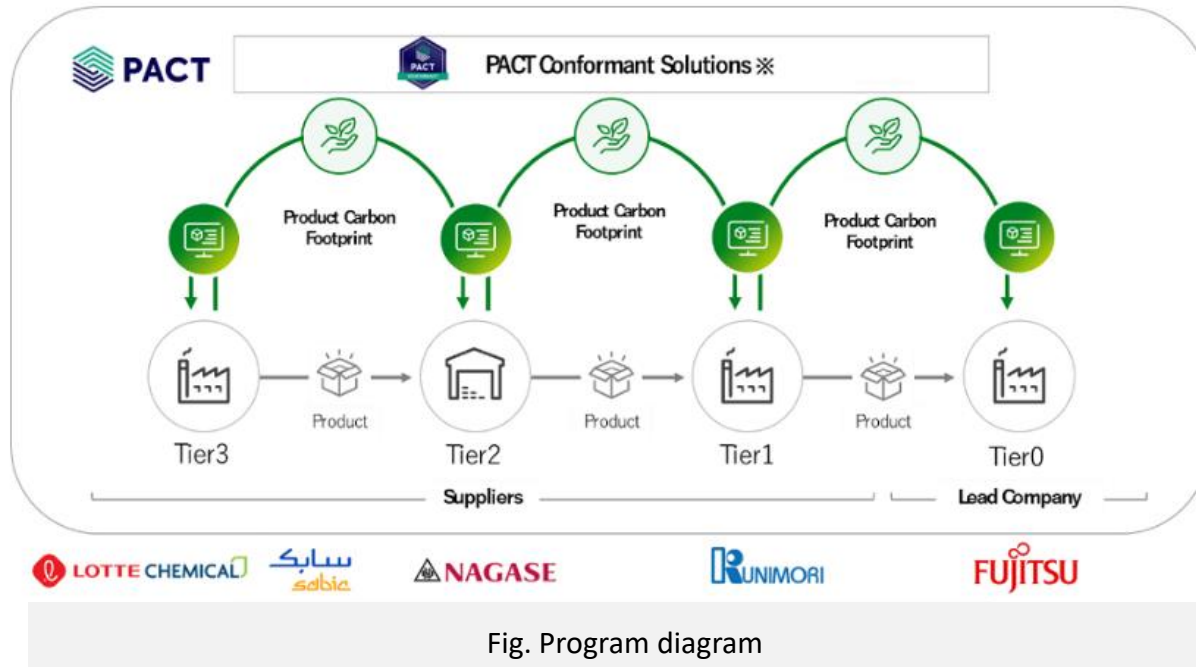
WBCSD's PACT pioneering supply chain CO2 visualization with successful participation in WBCSD PACT Implementation program



- **PRESS RELEASE on Sep-13<sup>th</sup> 2023**
- **Reported at New York Climate Week Scope3 Summit (Sep-19<sup>th</sup>)**

## Aiming for net-zero through visualization and data linkage of CO2 emissions

\*PACT : Partnership for Carbon Transparency



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- For Scope 3 Category 1 reductions, Fujitsu participated in the development phase for PACT technical specification rules.
- Enabled PACT- conformant solutions to exchange CO2 emissions data and calculate PCF\* between realistic supply chains from Tier 0 to Tier 3 of Fujitsu's notebook PC enclosures.

\*Product Carbon Footprint

- Target product : Fujitsu's Notebook PC(PC enclosures)
- Supplier levels : Upstream suppliers in the supply chain for Fujitsu's notebook manufacturing (Tier0:Fujitsu LTD. Tier1: KUNIMORI KAGAKU Co., Ltd. manufactured PC enclosures , Tier2: Nagase & Co., Ltd, Tier3: LOTTE CHEMICAL CORPORATION and SABIC's Specialties business which provided resin materials
- Data integration items : PCF data based on the Pathfinder Framework
- Solution : 「Fujitsu Track and Trust」 , and 「Zeroboard」 , which are PACT conformant solutions based on the Pathfinder Network



PRESS RELEASE on Sep-13<sup>th</sup> 2023 <https://pr.fujitsu.com/jp/news/2023/09/13.html>



# PACT conformant solution : ESG Management PF / Fujitsu Track and Trust



PACT conformant solution based on the Pathfinder Network, and to link actual data and calculate CO2 emissions in PCF(Product Carbon Footprint) across its notebook PC supply chain.





# Sustainable Services

## ESG management



Realize optimal and evidence-based ESG management from both financial and non-financial perspectives to maximize corporate value.

### Background

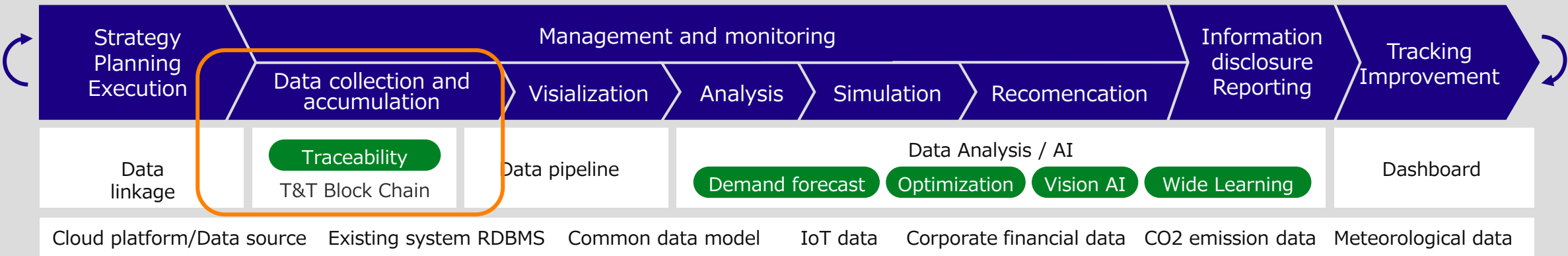
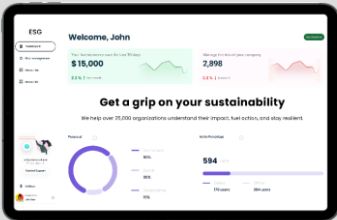
- EU**
- Sustainability Disclosure Regulation (CSRD\*) took effect in 2023
  - Some companies to be applied in January 2025

- Japan**
- Request for disclosure of climate change risks in line with TCFD\* recommendations

## ESG Management Platform

Support management decision-making, leveraging Fujitsu in-house practices and industry know-how

- Automated simulation and scenario planning (digital rehearsal)
- Recommending and Reporting with generative AI
- Provide end-to-end services from consulting, data collection and visualization to information disclosure



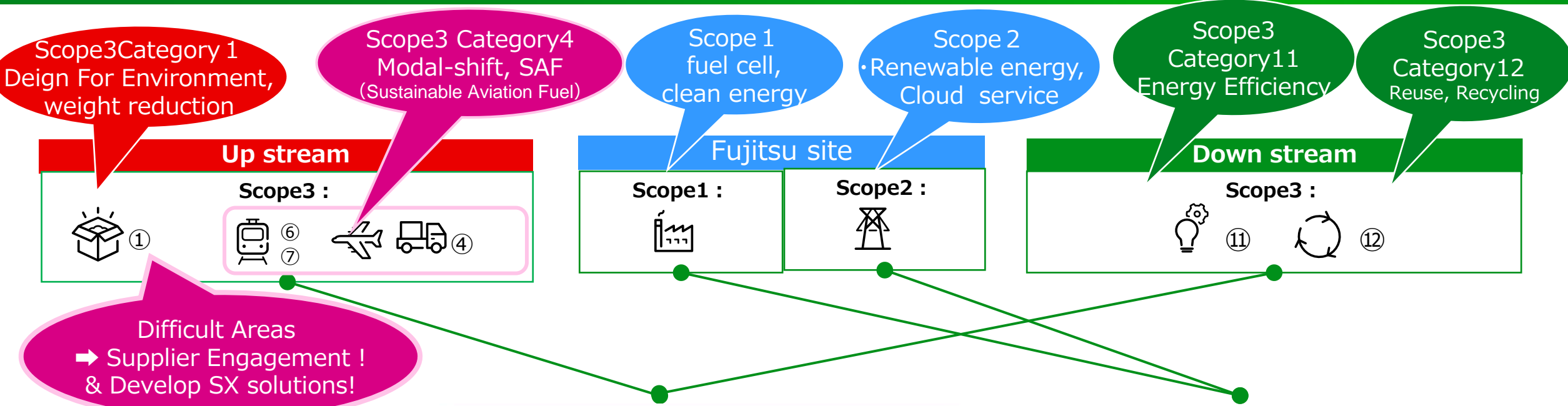
● Fujitsu Technologies

\*CSRD : Corporate Sustainability Reporting Directive  
\*TCFD : Task Force on Climate-related Financial Disclosure

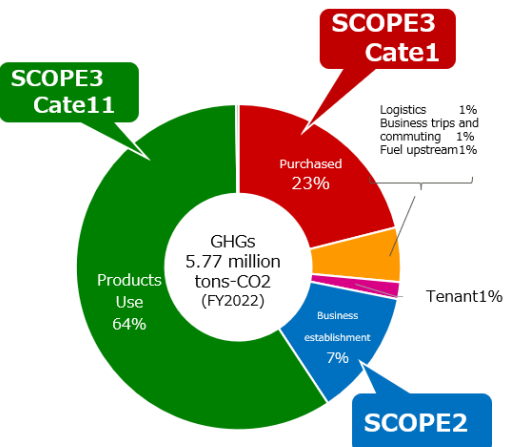
[Cf. Concept movie](#)



# Summary

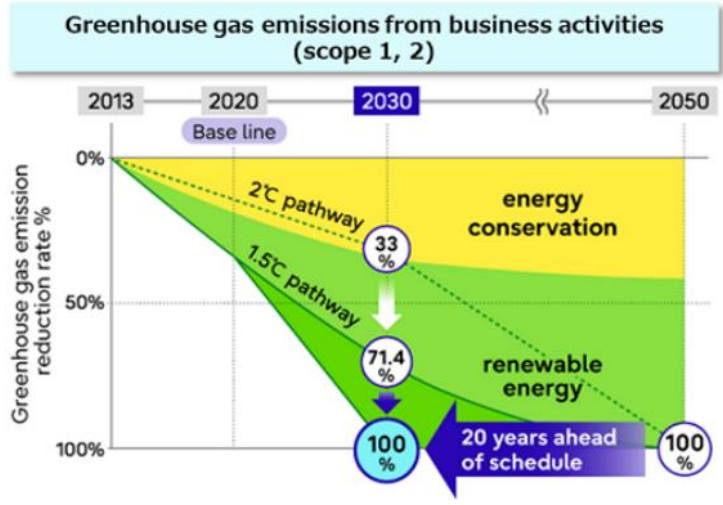
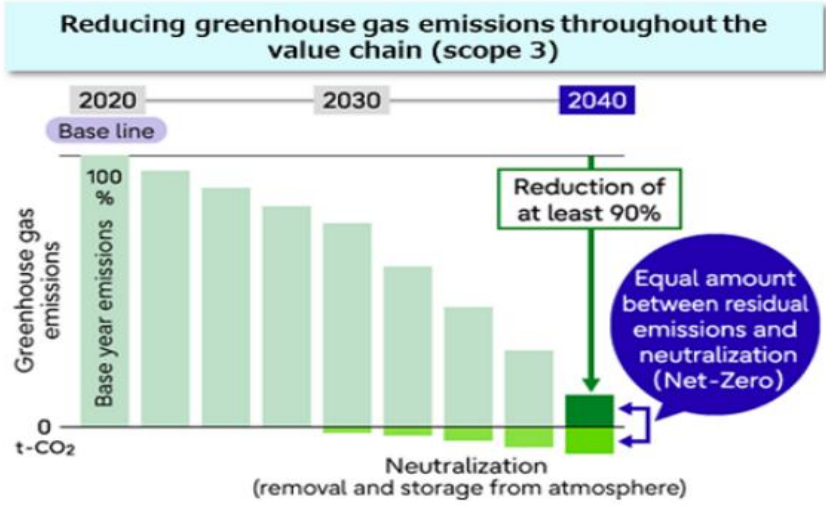


Difficult Areas  
➔ Supplier Engagement !  
& Develop SX solutions!



\*GHG : Greenhouse Gas

Fujitsu's GHG emissions





# Fujitsu Uvance

**Universal + Advance**

"Advance all (Universal) things in a sustainable direction"

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## Our thoughts on Fujitsu Uvance:

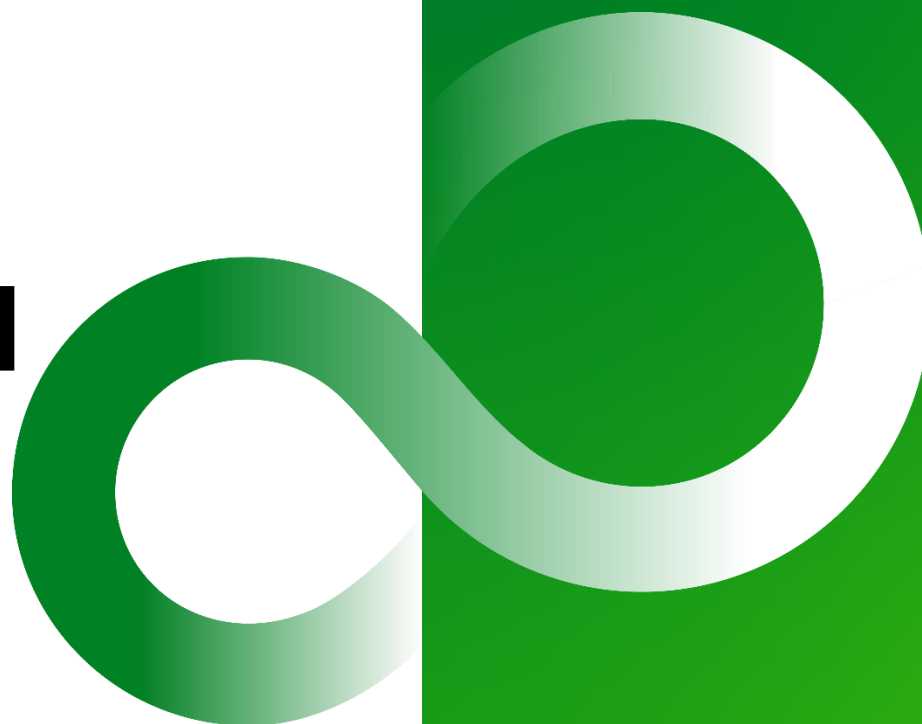
Connecting Diverse Values with Trust  
by providing flexibility to adapt to change,  
Everyone can move forward toward their dreams.  
We will create a sustainable world.

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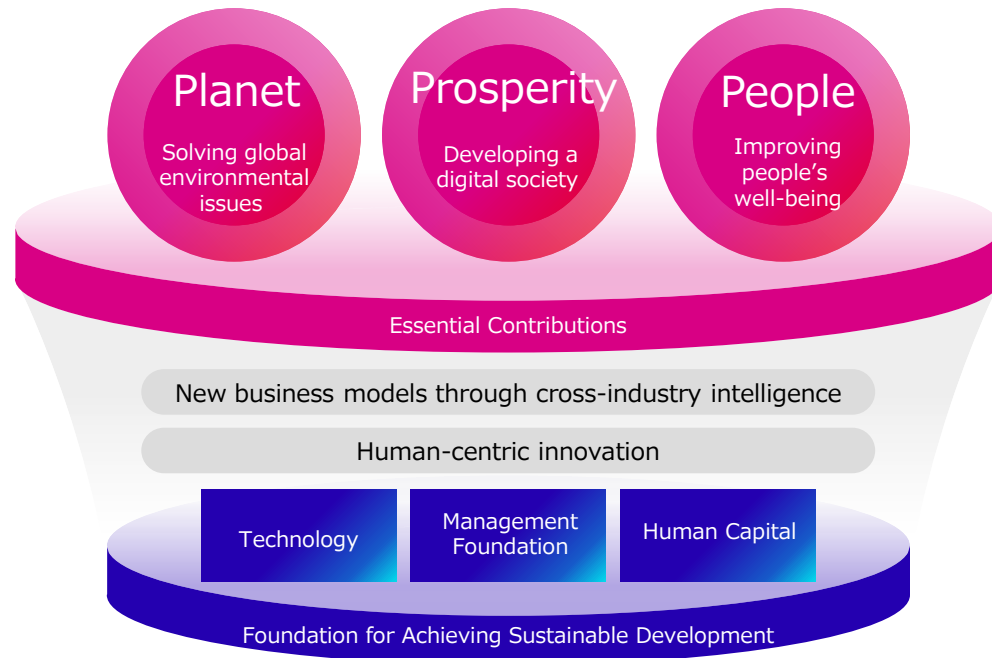
**Thank you**



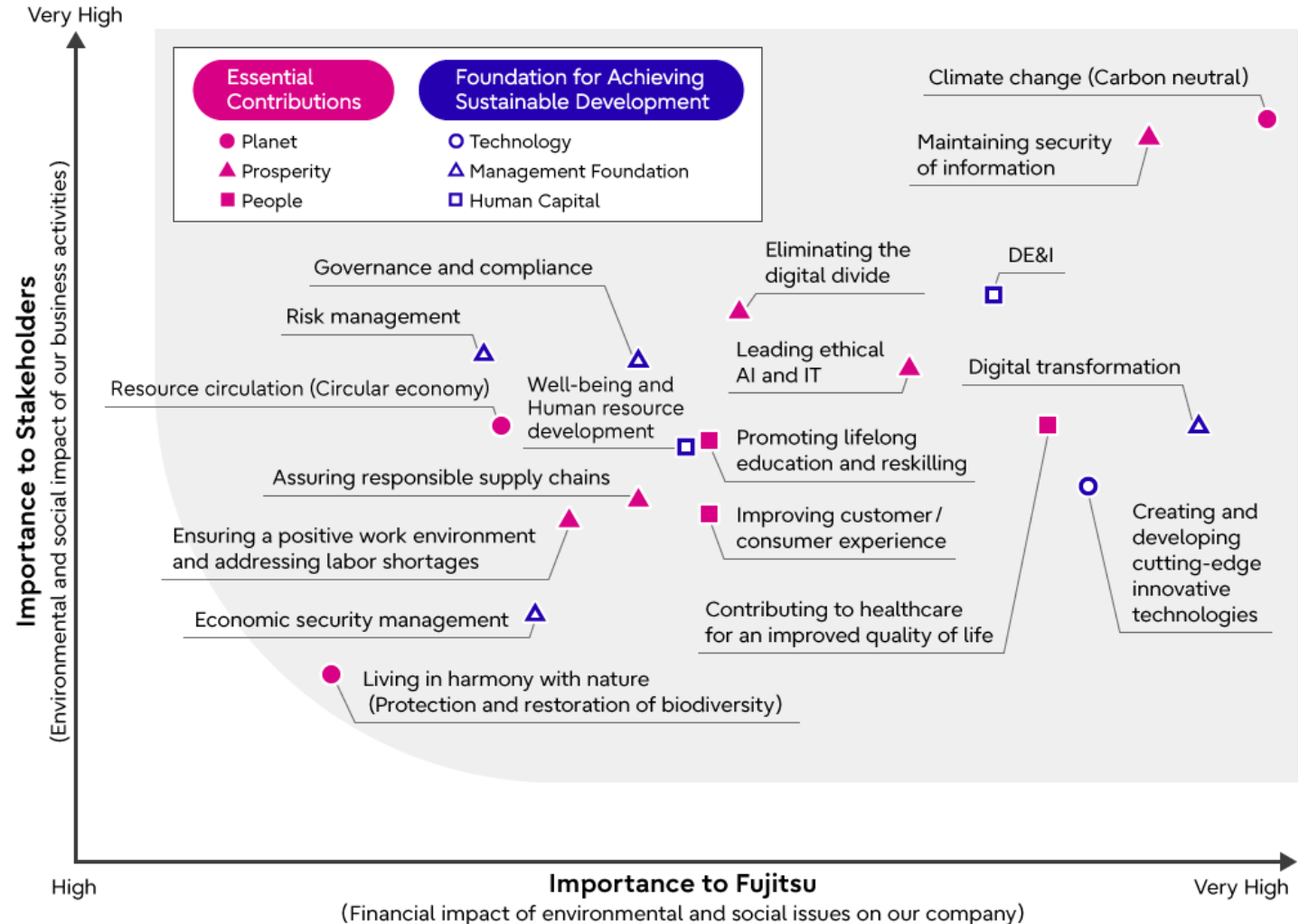


# Fujitsu Group Materiality

Some examples of our top priority problems and solutions in perspective of sustainability.



[Cf. Materiality](#)





## Social responsibility as a leading company in Sustainability Transformation (SX)

As a leading company in SX, Fujitsu Group is committed to reducing the environmental impact of its group companies, including those in the supply chain, and to expanding and enhancing the value it provides to customers and society through technology. We will work with our customers and partners to realize a sustainable future.

## Outline of the Fujitsu Group Environmental Action Plan (Stage XI)

In order to resolve environmental and social issues, we have set eight targets in three global risks areas highlighted by the World Economic Forum:

- **Climate Change**
- **Resource Circulation**
- **Living in Harmony with Nature**

These are mapped against the two values of

- **Customers and Society**
- **Fujitsu and Supply Chain**

[Cf. Environmental Action Plan](#)

	Customers and Society	Fujitsu and Supply Chain		
	Business Field	Upstream Business	Fujitsu's Business Areas	Downstream Business
Climate Change	<ul style="list-style-type: none"> <li>• Development and provision of solutions that contribute to SX</li> </ul>	<ul style="list-style-type: none"> <li>• Suppliers' GHG reduction (Well Below 2 °C target)</li> </ul>	<ul style="list-style-type: none"> <li>• Reduction of GHG emissions at business sites (1.5 °C target)</li> <li>• Increase the use ratio of renewable energy</li> </ul>	<ul style="list-style-type: none"> <li>• By reducing power consumption during product use Reduction of GHG emissions</li> </ul>
Resource Circulation		<ul style="list-style-type: none"> <li>• Enhancing suppliers' awareness of water resource conservation</li> </ul>	<ul style="list-style-type: none"> <li>• Reduction of water consumption</li> </ul>	<ul style="list-style-type: none"> <li>• To product resource conservation and resource recycling Improving resource efficiency</li> </ul>
Living in Harmony with Nature		<ul style="list-style-type: none"> <li>• Reducing negative impacts of corporate activities on biodiversity</li> </ul>		

**Goal of Services**

**Goal of Products**