



TSE Code: 9434

February 26, 2024  
SoftBank Corp.

# ESG Briefing Session

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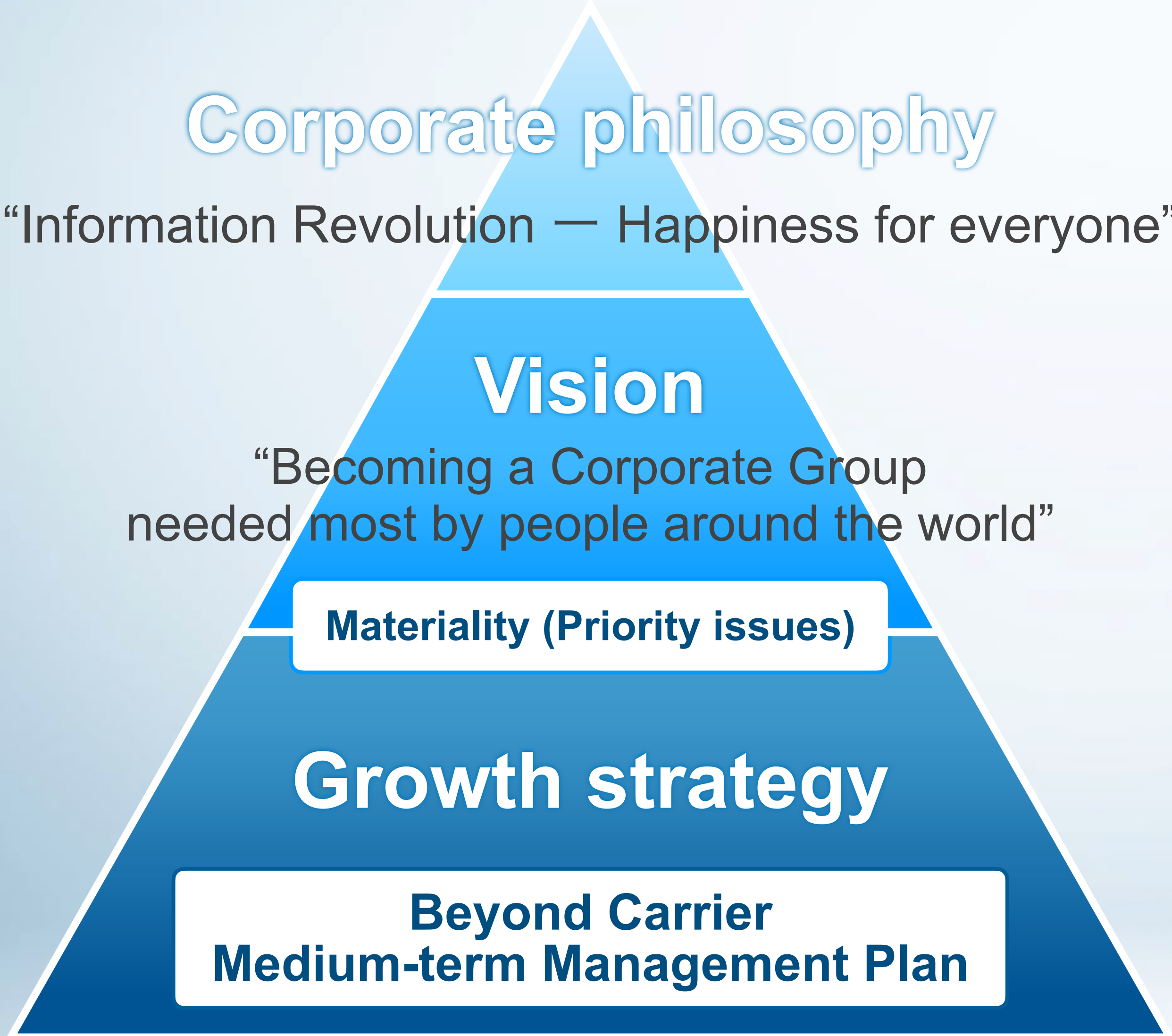
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# Our ESG Management Approach



**Pursue to harmonize the realization of a sustainable society and the enhancement of corporate value**



**What is needed to achieve both a sustainable society  
and an enhancement of corporate value?**

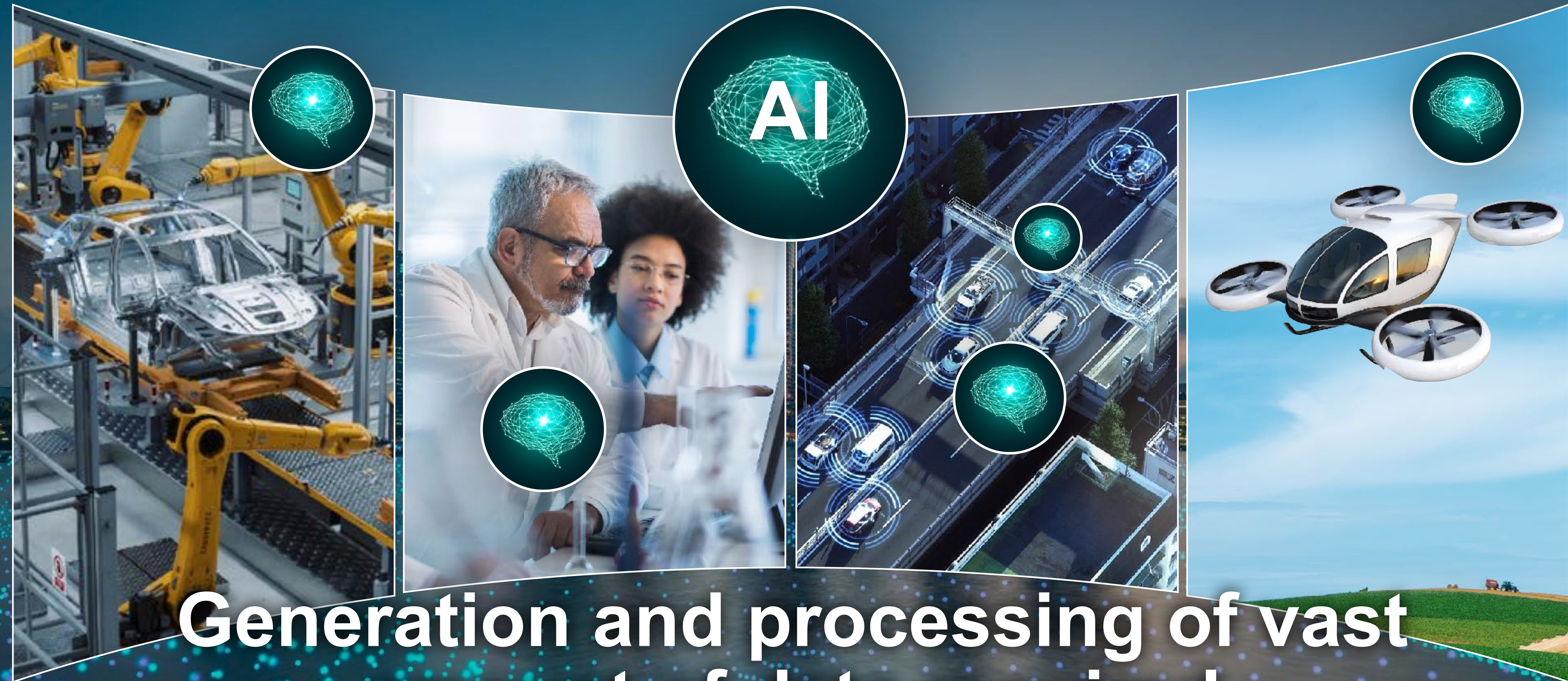


**Announced Long-term Vision in May 2023**



**Next-generation Social  
Infrastructure  
essential for development of a  
digital society**

# Advent of AI Coexisting with Society

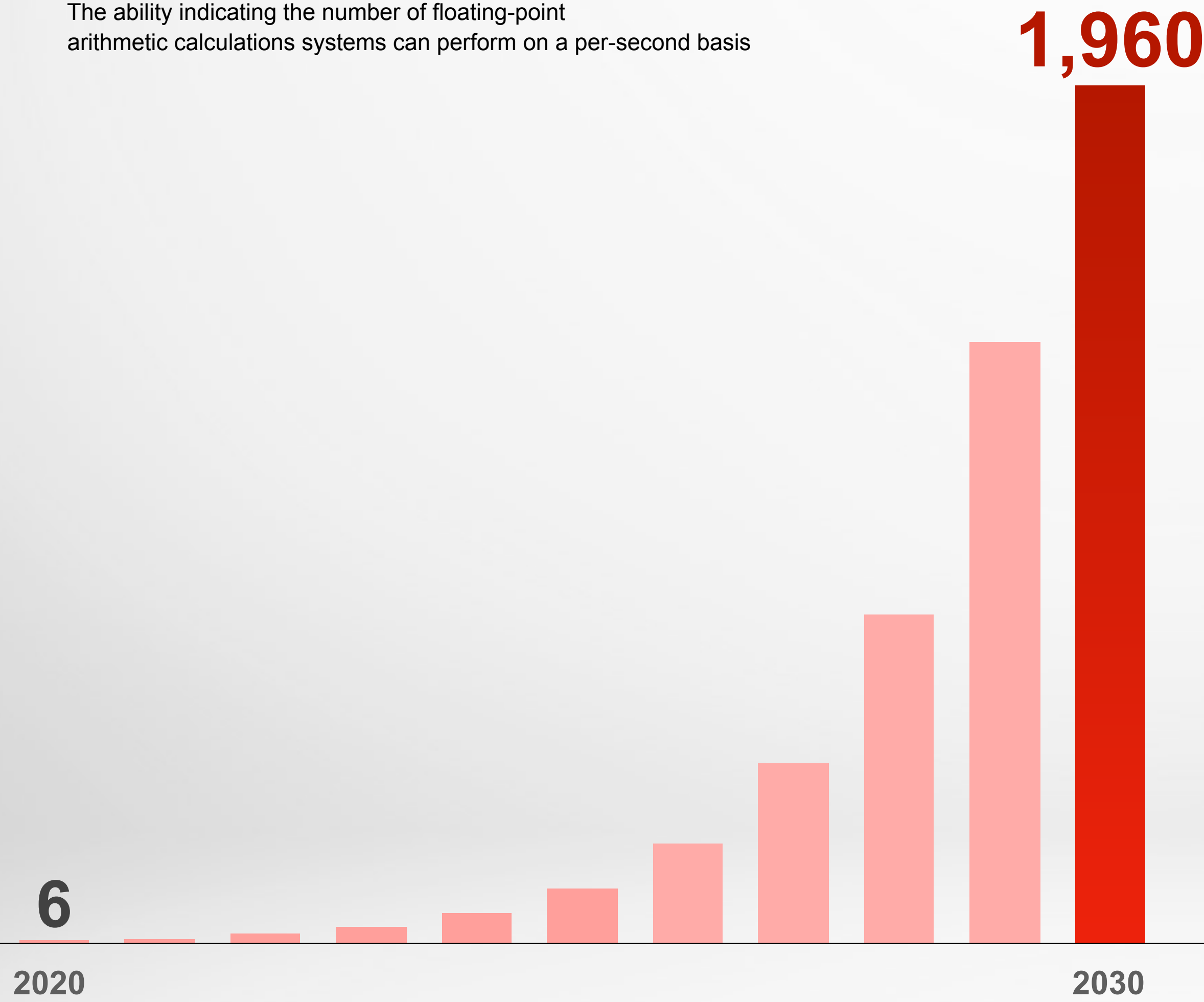


**Generation and processing of vast amount of data required**

# Demand for Data Processing and Power Requirements in Japan

[ExaFLOPS]

\*Exa: 18 to the power of 10  
\*FLOPS: Unit of computer processing power.  
The ability indicating the number of floating-point arithmetic calculations systems can perform on a per-second basis



**1,960 EFLOPS**

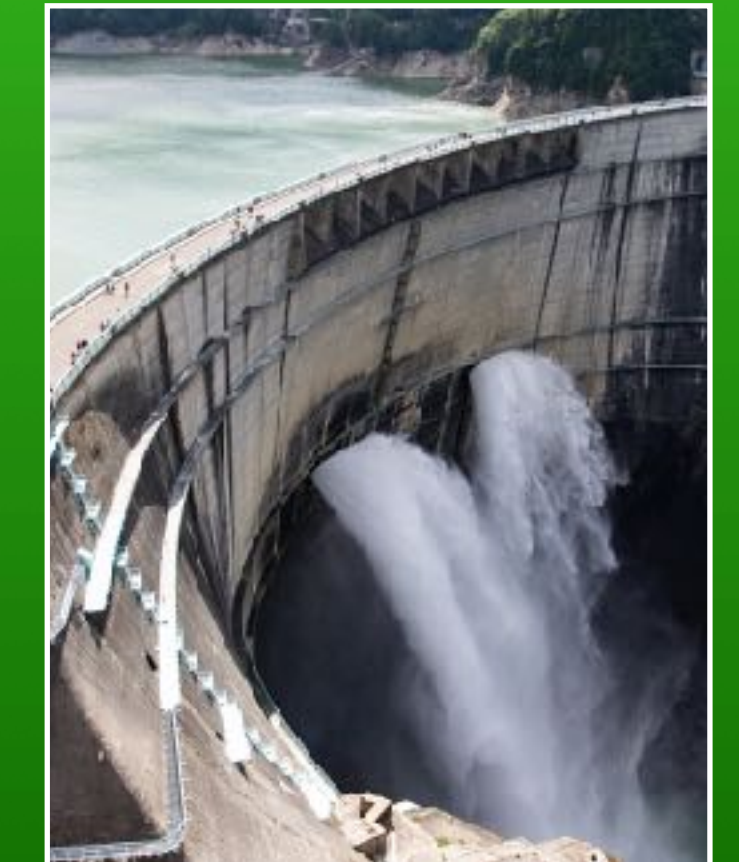
**Large thermal power plants 6**

(Source) The estimates by SoftBank Corp. are based on the 5th Semiconductor and Digital Industry Strategy Review Conference (Ministry of Economy, Trade and Industry) and various publicly available information  
Required power = calculated by dividing back to DC from the required computing capacity, PUE (Power Usage Efficiency) 1.2 assumption  
Large thermal power = 700MW

## Increase in demand for data processing through AI



## Measures to combat global warming



**Next-generation infrastructure that can balance both is necessary**



# Precedent: China's Eastern Data and Western Computing Project

(Unified national computing network development plan)

## Western area

Abundant renewable energy potential



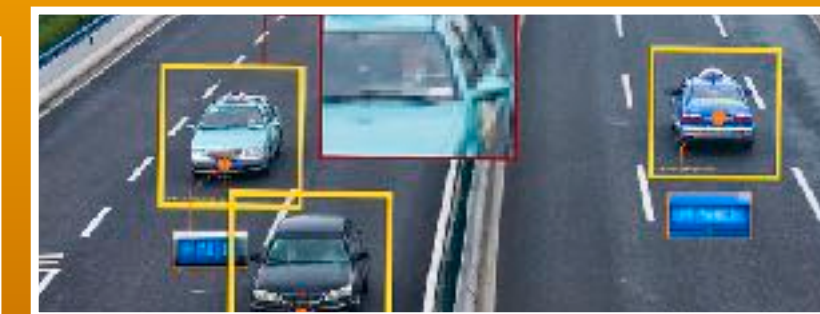
## Eastern area

Growing demand for data processing

Concentrated population



Development of AI technology



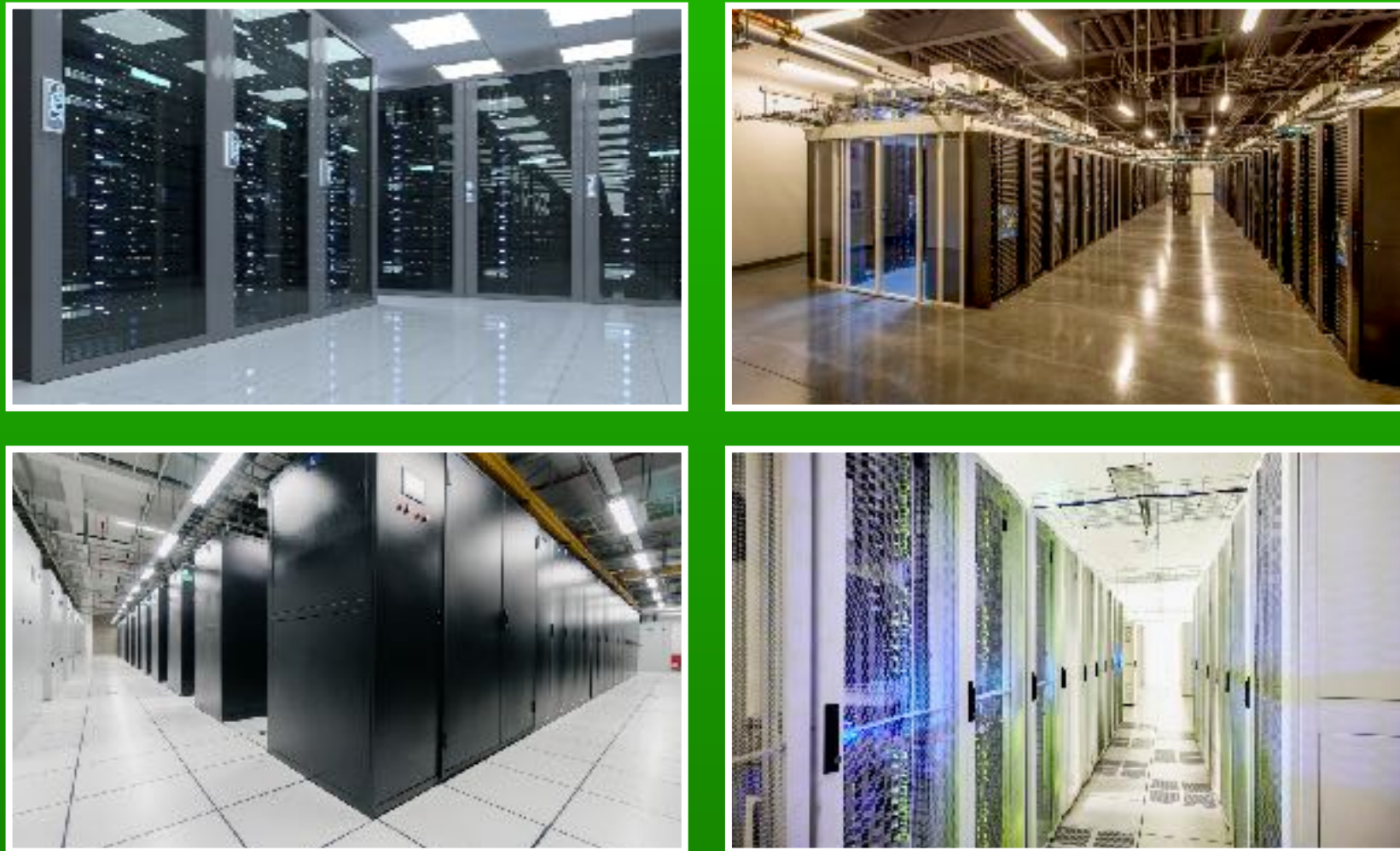




# Precedent: China's Eastern Data and Western Computing Project

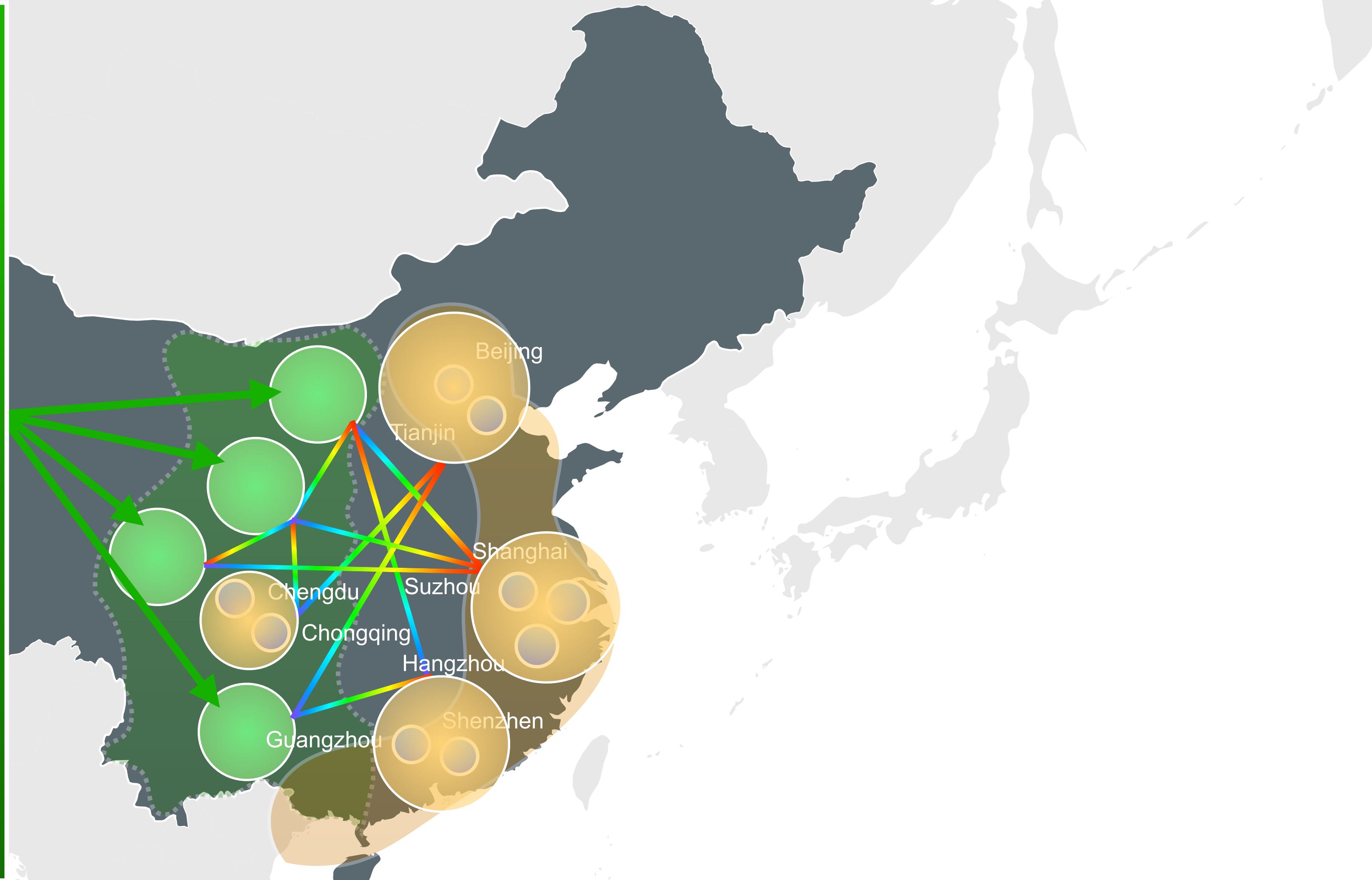
(Unified national computing network development plan)

## Construction of Green DC

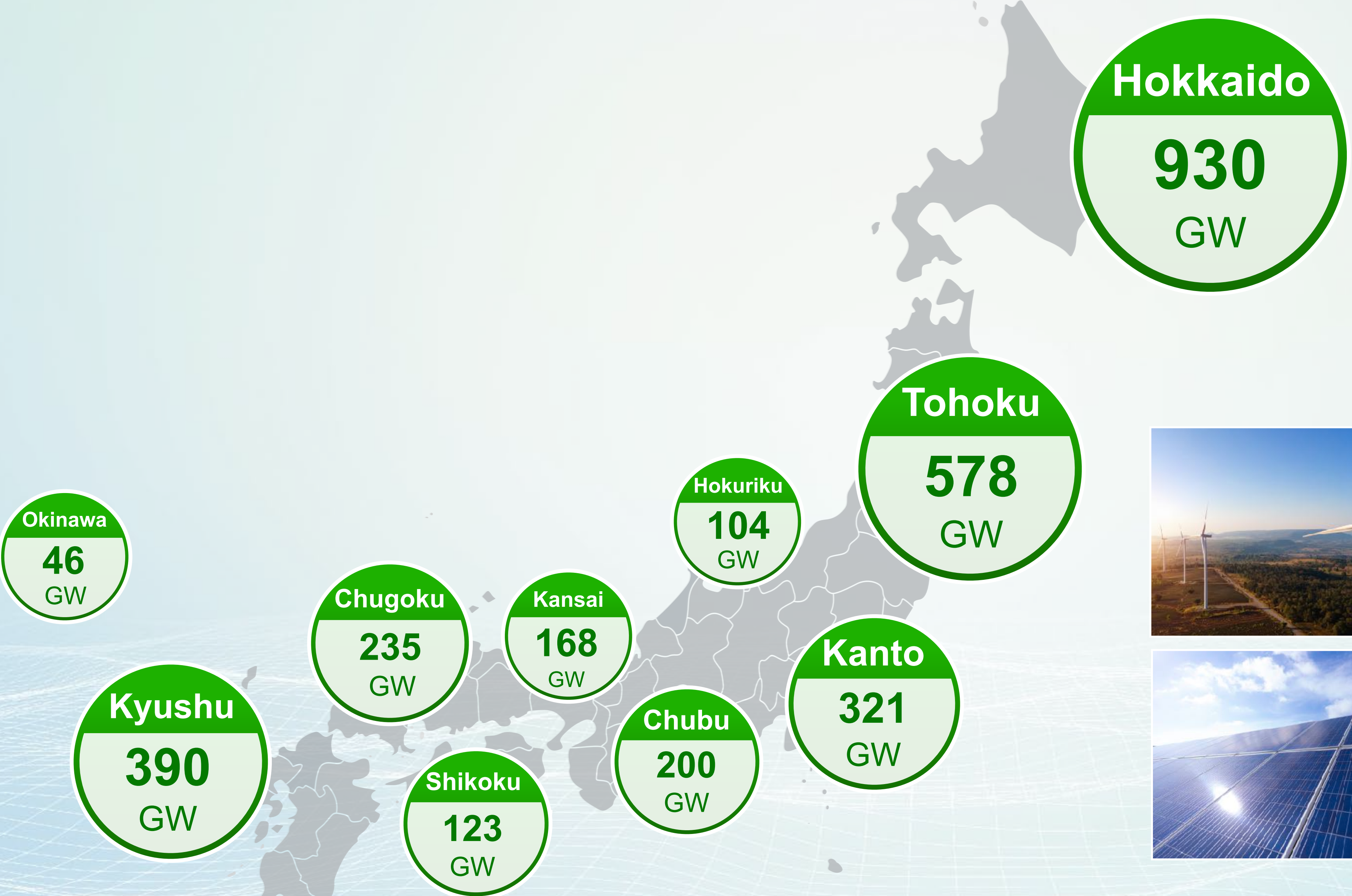


**Cumulative  
investment amount  
(2021-2025)**

**Approx. JPY 60 trillion**

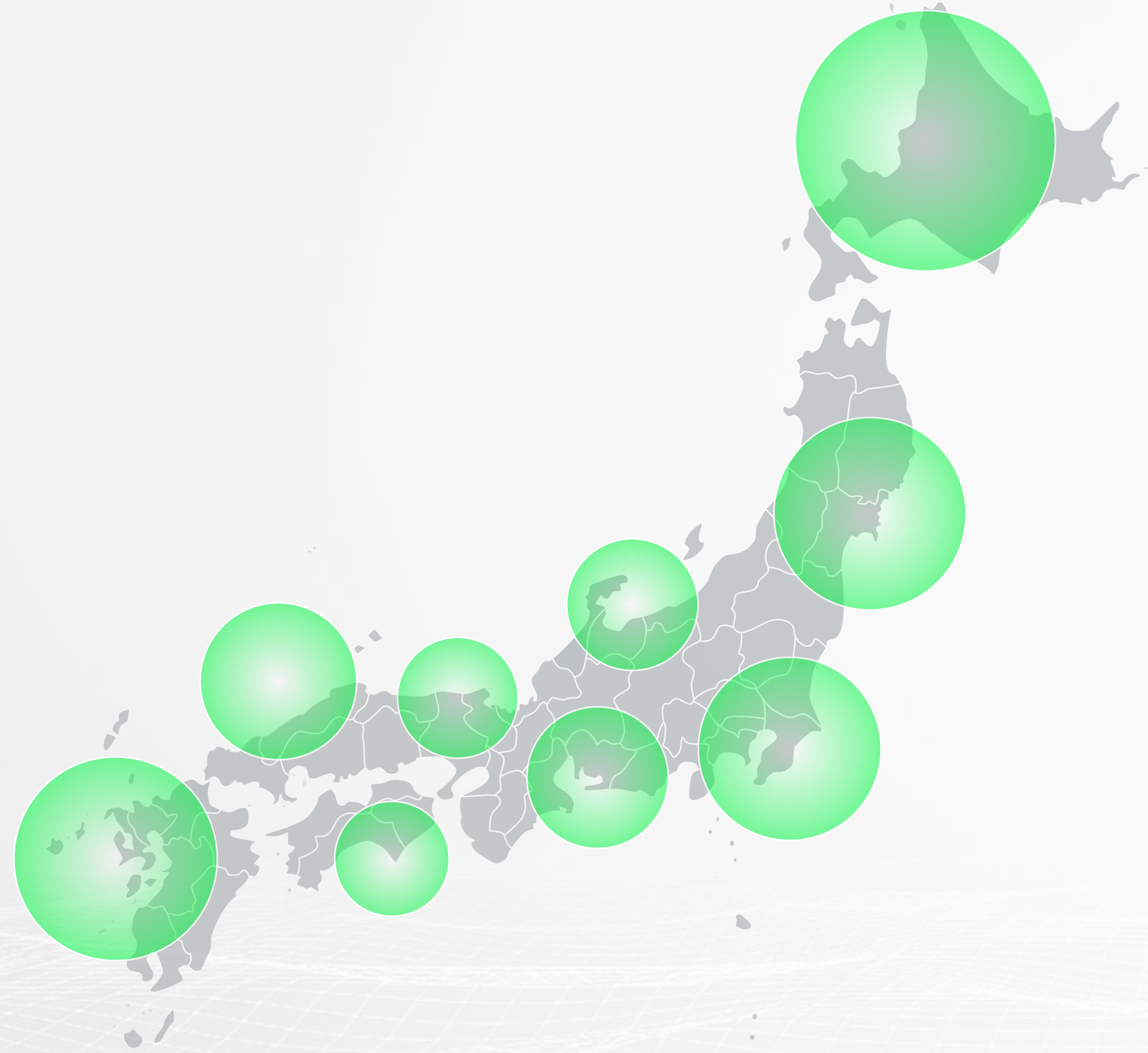


# Potential for Renewable Energy Implementation

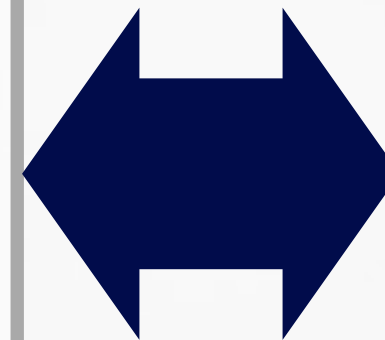


(Source) Created by SortBank Corp. by processing content obtained from REPOS, a system for providing renewable energy information

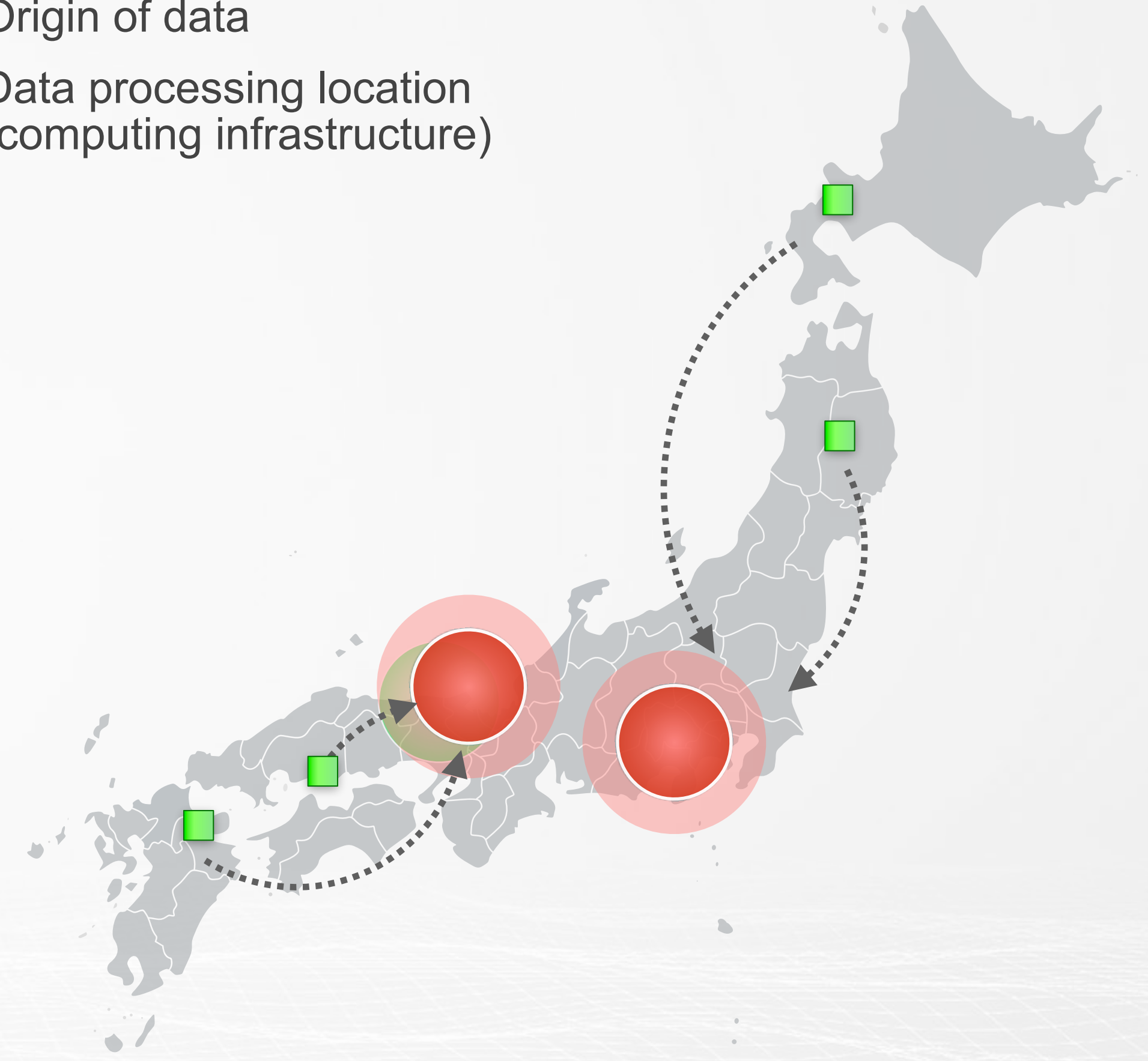
# Issues in the Current Infrastructure



Potential of renewable energy  
**dispersed in each region**

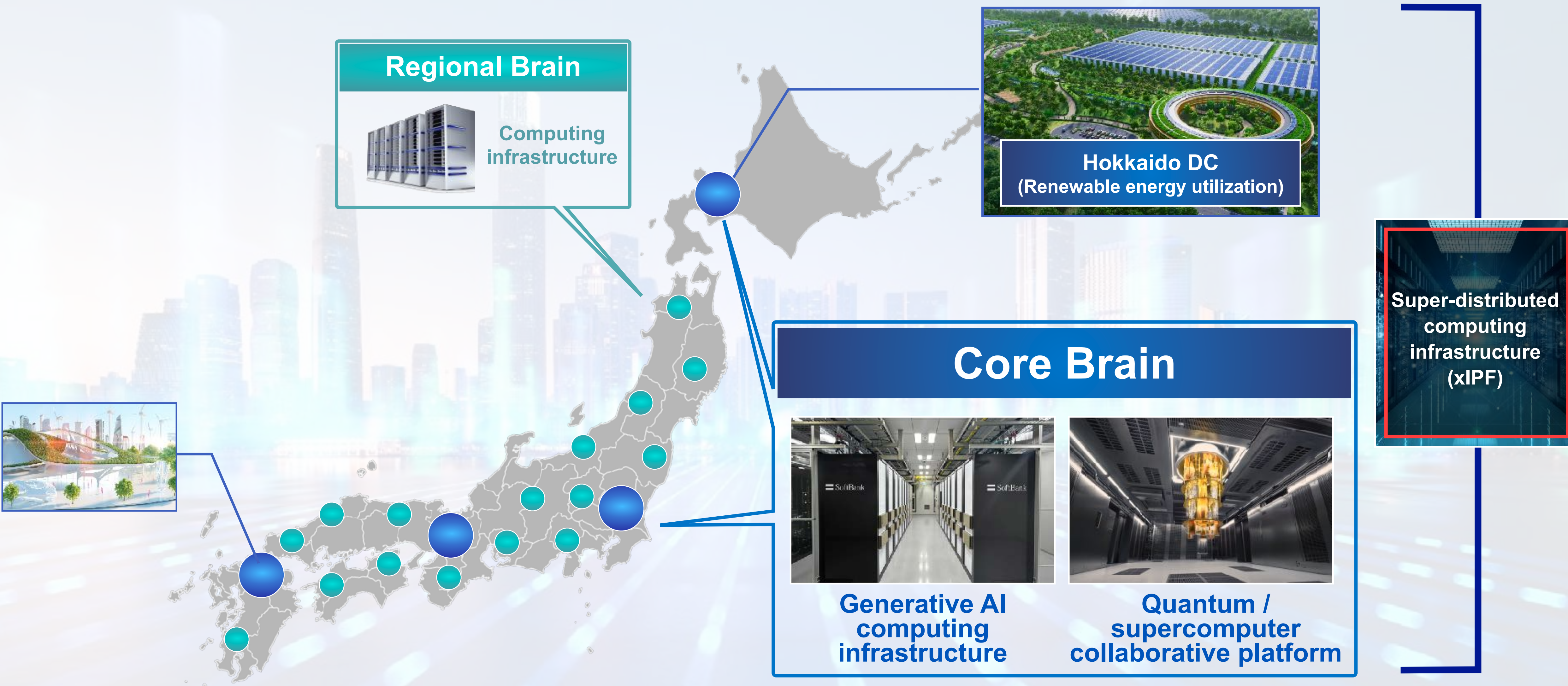


- Origin of data
- Data processing location (computing infrastructure)



Data processing/power consumption  
**concentrated in urban areas**

# Structure of Next-generation Social Infrastructure (Distributed AI Data Centers)



# Structure of Next-generation Social Infrastructure (Distributed AI Data Centers)



## All optical network

Enabling energy-efficient,  
low-latency, and high capacity core network  
connections through optical technology

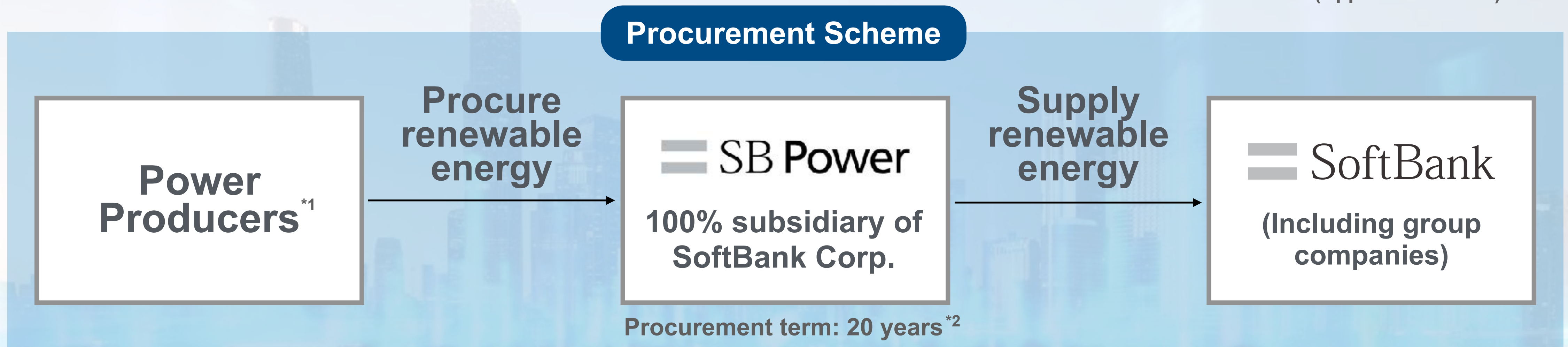
## Nationwide coverage completed

(Announced jointly with Fujitsu Limited  
in October 2023)

# Signed Contract for Procurement of Renewable Energy

## Procure sufficient electricity from renewable energy for total future telecommunication business needs

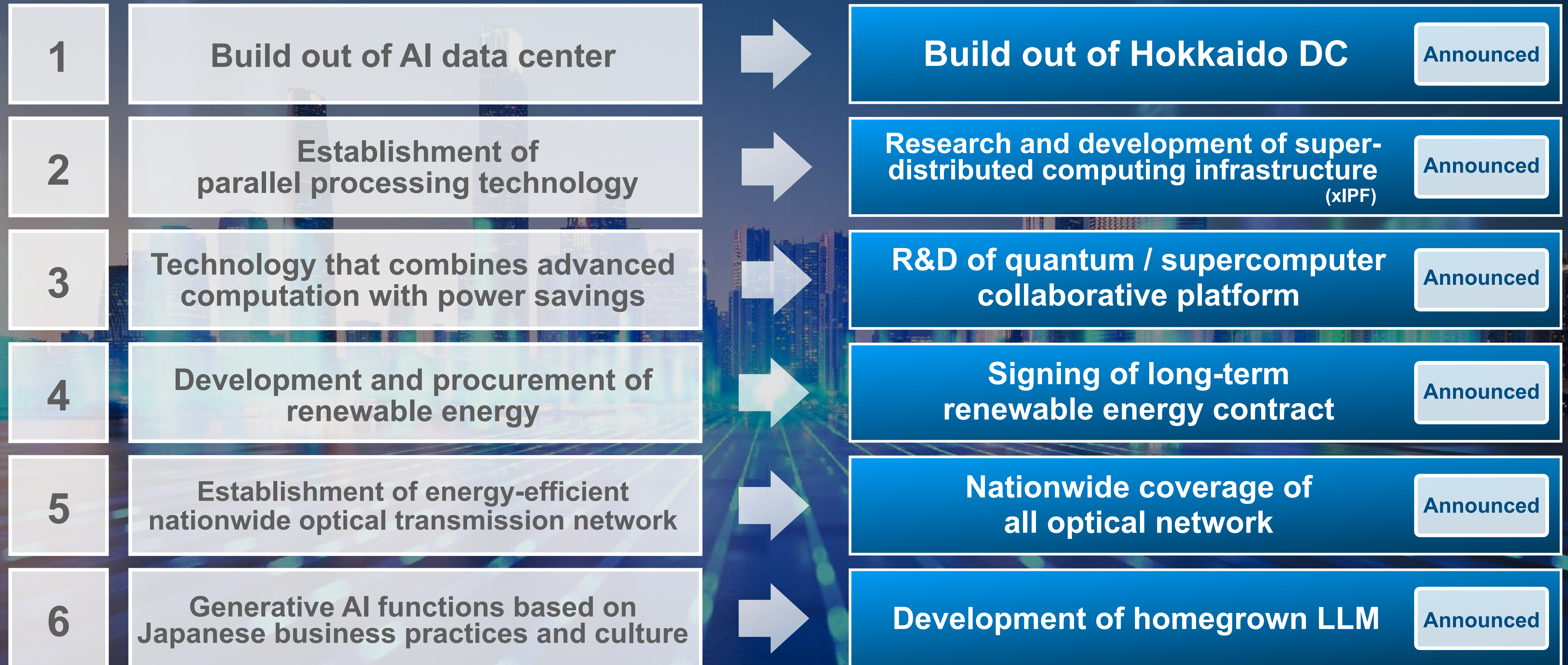
(Approx. 2 bn kWh)



# Strategically promote initiatives to build next-generation social infrastructure

Themes that will be needed to realize next-generation social infrastructure

Embodied strategic initiatives



⋮

⋮

# Potential for New Risks with Advent of AI Coexisting Society

**Deep fakes**  
(False information)



**Accidents involving autonomous vehicles**



**Personal information leakage**



**Super-surveillance society**  
(Privacy issues)



**Military use of AI robots**



**Wrongful arrest**





# **Forward-looking, ever-evolving AI governance**



# Institute for AI and Beyond Initiatives

(Agreement signed in December 2019)

## Promoting joint research in various fields



Beyond AI 研究推進機構

Institute for AI and Beyond

(The University of Tokyo / SoftBank)

### Basic Research (Mid- to long-term research)

Brain function augmentation by AI

Elucidating brain functions using artificial brain tissue

Next-generation AI development through reproduction of brain information

Automatic construction of highly accurate prediction models from a small amount of supervisory information

Next-generation AI devices with super-low power consumption

Practical research on norms and ethics in the age of AI

⋮

### Applied Research (High cycle research, CIP)

Medical data standardization and medical data distribution platform

Commercialization of medical image data management system

Smart city utilizing digital twins

⋮

Professor team in charge supports the establishment of our AI ethics policy, various regulations, guidelines, and educational content

# AI Governance Initiatives

## Promoting “responsible AI” practices with with two pillars

### Proper management of AI risks



AI ethics policy deployed to 72 group companies



Establishment of AI governance operation scheme



Thorough employee training through e-learning and other means

### Active use of AI and promotion of commercialization



Generative AI contest  
(cumulative total of 150,000 proposals)



Development of homegrown multimodal LLM  
(Large language model)



External sales of utilization know-how

# Enhancement of AI Governance Initiatives

A new committee with external experts to be established, aiming for ever-evolving AI governance

AI ethical policy

+



# Toward advent of AI Coexisting with Society

## Building Next-generation Social Infrastructure

essential for development of a digital society



Forward-looking,  
ever-evolving AI governance



Pursue realization of a sustainable society and  
the enhancement of corporate value

## SoftBank's ESG strategy and environmental initiatives



ESG Planning & Management Senior Director  
**Masato Ikeda**

## SoftBank-style human capital management



Vice President, HR Division Head  
**Yasuyuki Genda**