

 SoftBank

Long-term Vision

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Implement Digitalization in All Industries



Road Map for Realization of Long-term Vision

Long-term Vision

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

Phase 1

Achieve medium-term
management targets

Promotion of
digital transformation (DX)

Research and development of
necessary technologies

Phase 2

Rebuild business foundation

DX business expansion

Implementation of technology
for commercialization

Phase 3

Further business growth

**Completion of
Next-generation
Social Infrastructure**

FY2021 FY2022 FY2023 FY2024 FY2025 FY2026 FY2027 FY2028 FY2029 FY2030

Phase 1 (FY2021 - FY2022)

Research and Development of Fundamental Technologies for Next-generation Social Infrastructure

Digital Twin



竹芝Marine-Gateway Minato協議会にて計画/実施

Beyond AI



計画/実施

SRv6 MUP



Super-distributed Computing Infrastructure



Network Virtualization



※EPOの委託研究開発として採択

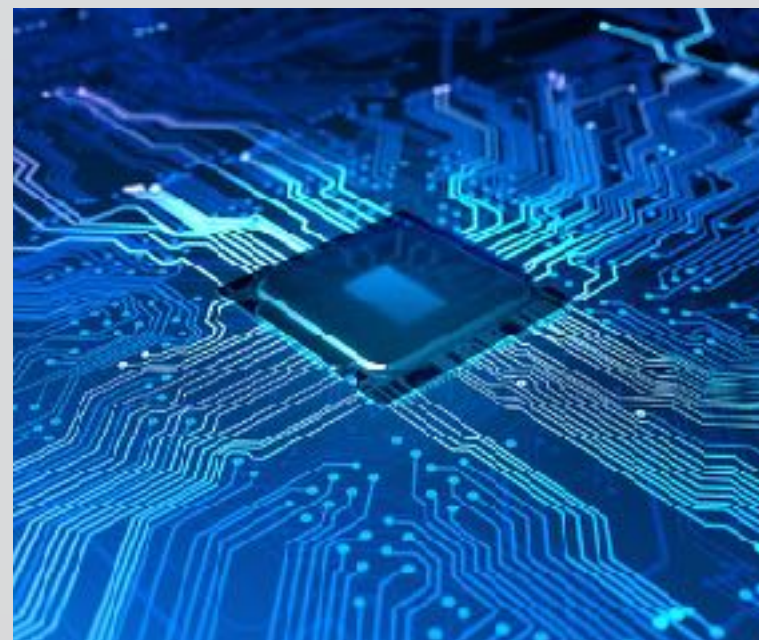
Beyond 5G



Green Infrastructure



Next-generation Semiconductors



Quantum Computers



Next-generation Batteries



Autonomous Driving Systems



NAVER ALIKE Solution MORAI

Medical Data Distribution Infrastructure
(Next-gen standard: HL7 FHIR*)



*FHIR (Fast Healthcare Interoperability Resources): International standard for standardizing data linkage of medical information between computers



Realize Infrastructure for the Society of the Future



Present

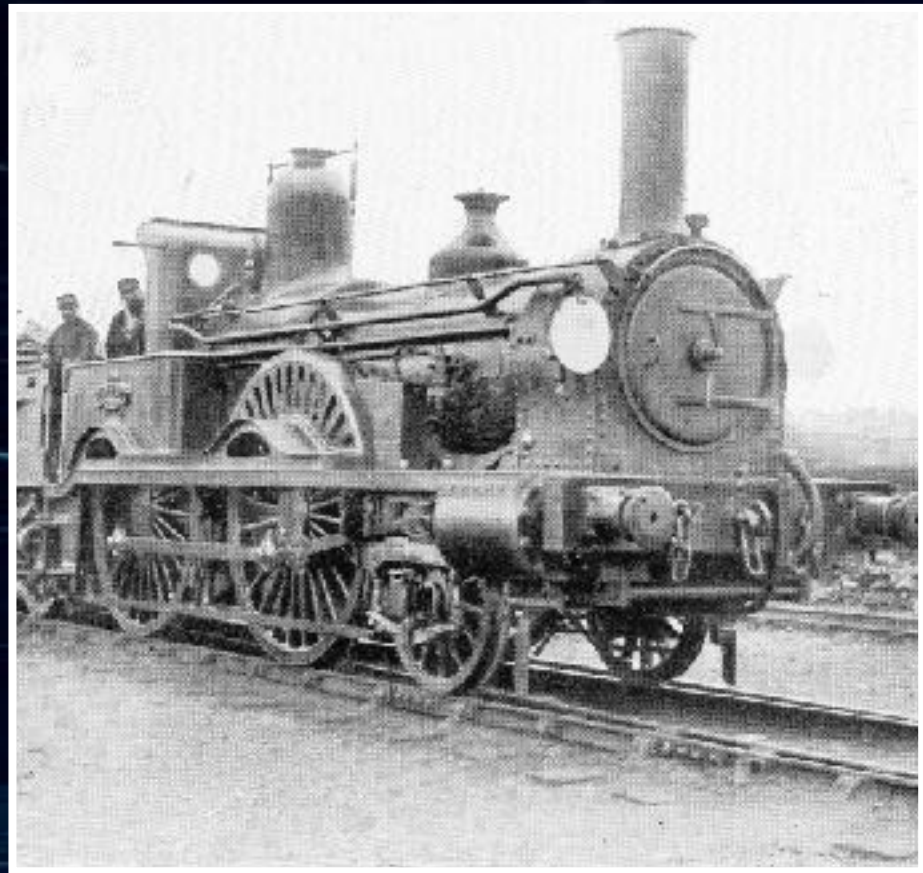


FY2030

Industrial Revolution

(Changes in Daily Life due to Technological Evolution)

1st



Steam
Locomotive



2nd



Electricity



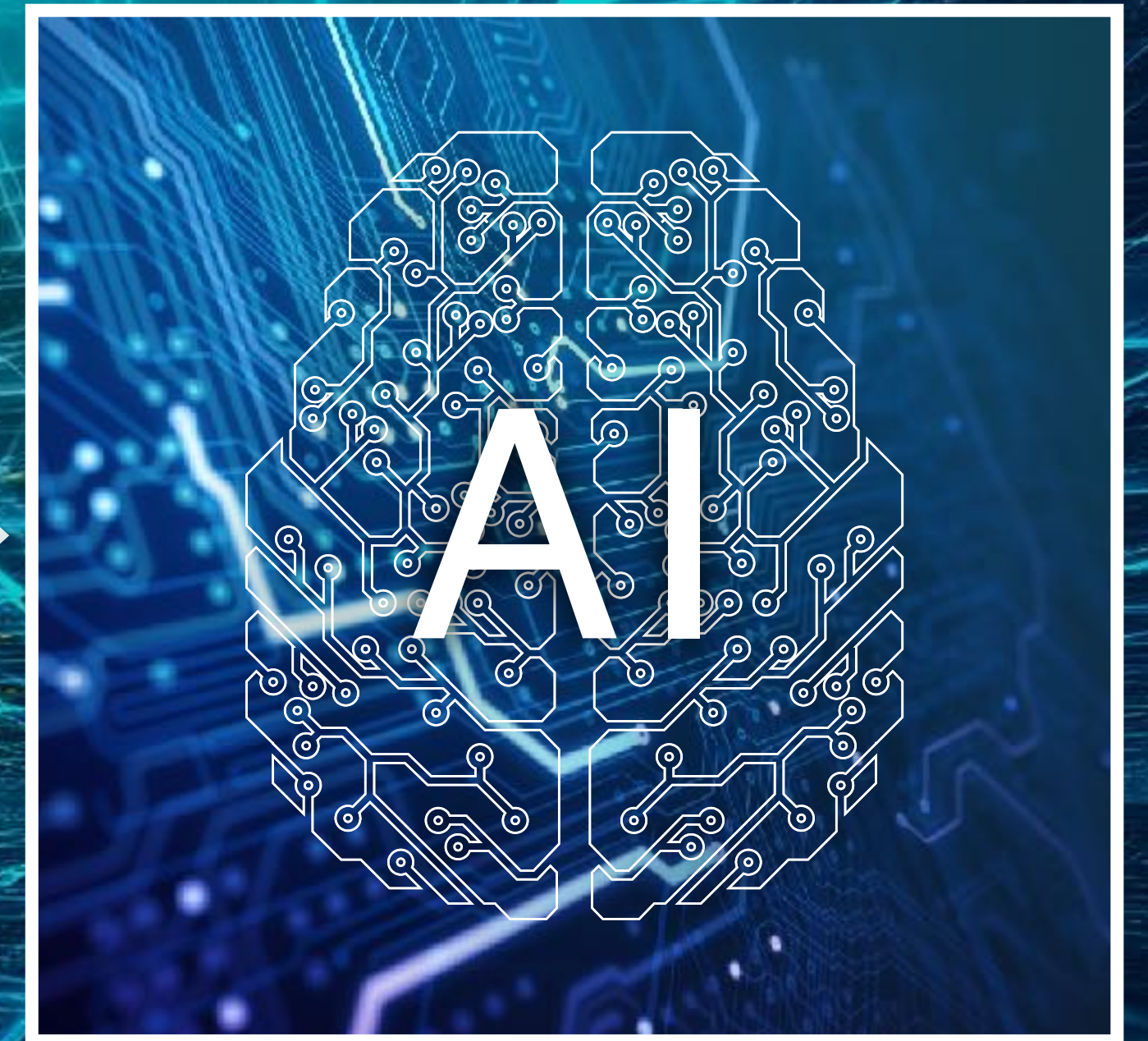
3rd



Internet



4th



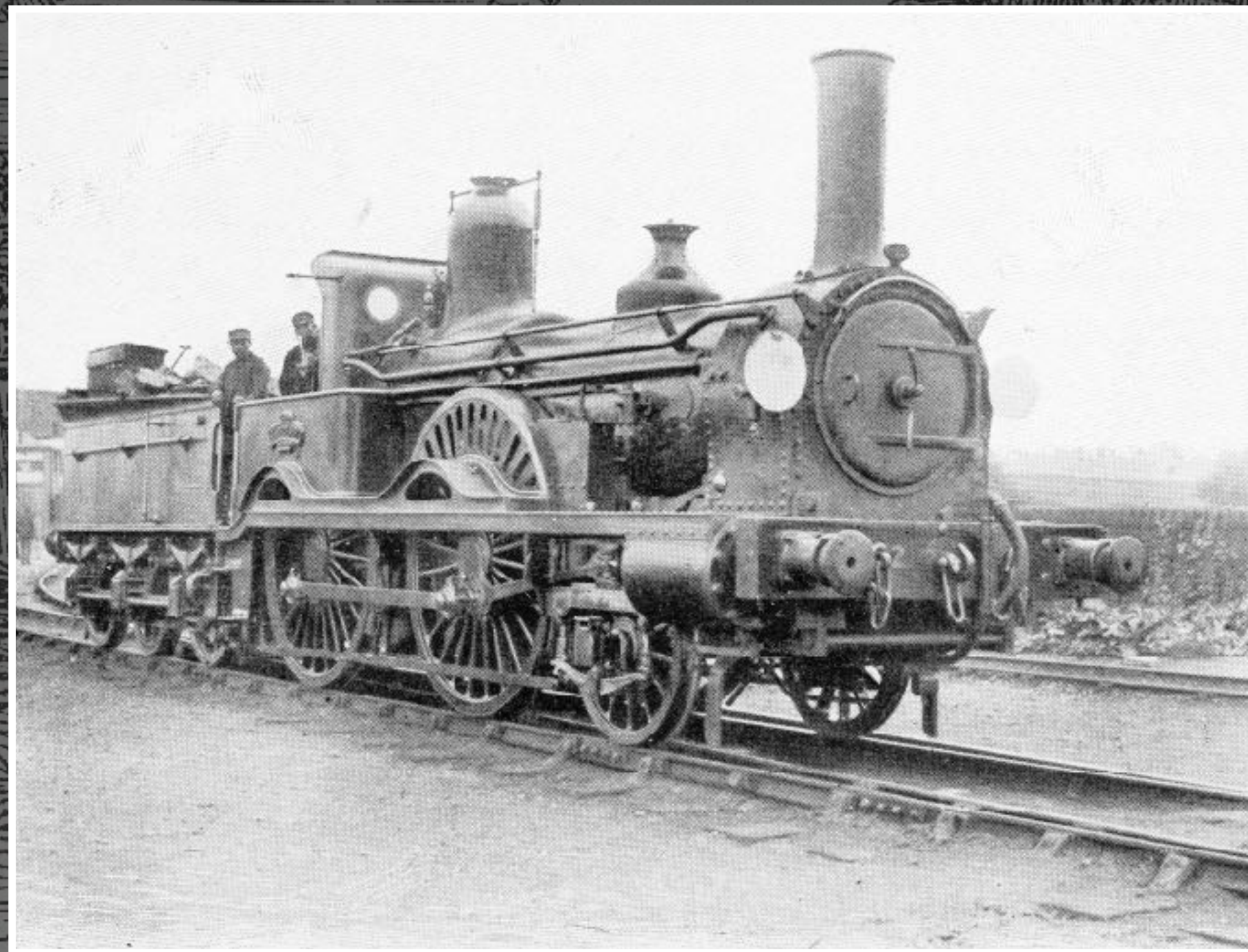
AI

1st Industrial Revolution (Mechanization)

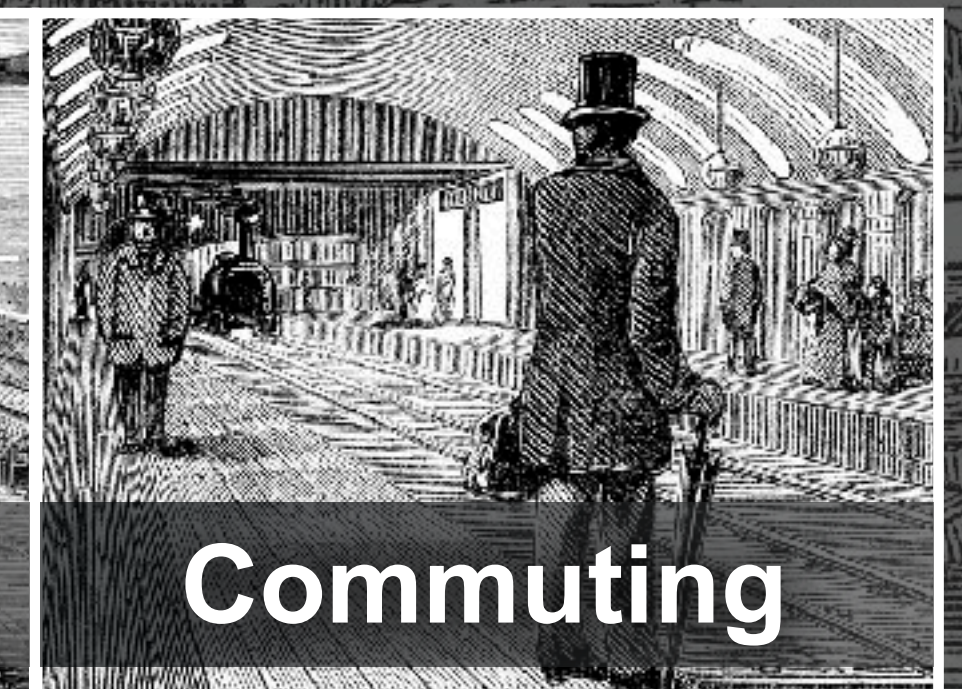
Steam Locomotive

(Traffic and Transportation Infrastructure)

New Norms



Urbanization



Commuting



Standard time



Food culture

1825

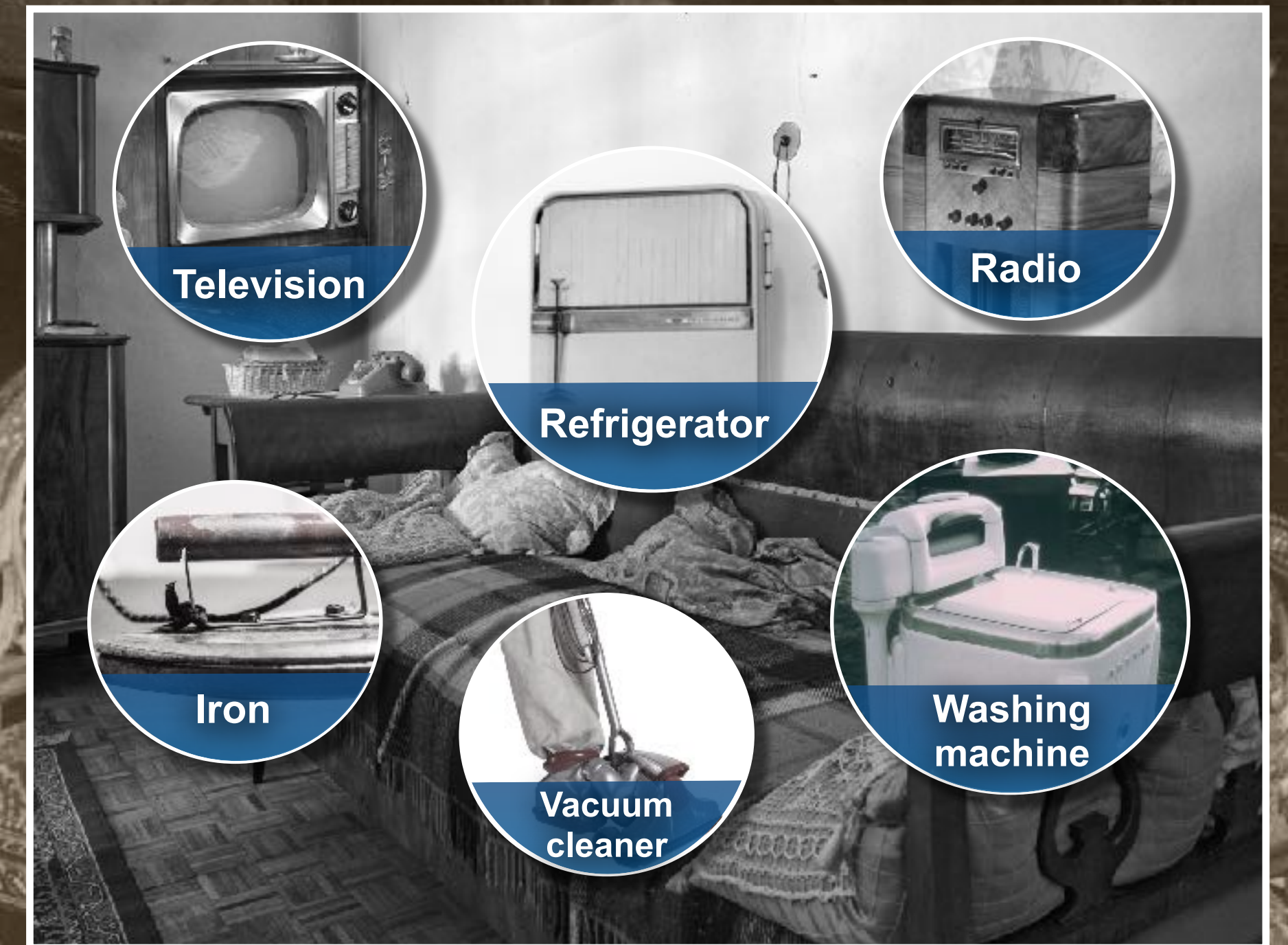
World's first commercial operation in the U.K.

2nd Industrial Revolution (Efficiency)

Incandescent Light Bulb

(Electric Power Infrastructure)

New Norms



1879

Edison invented the incandescent light bulb

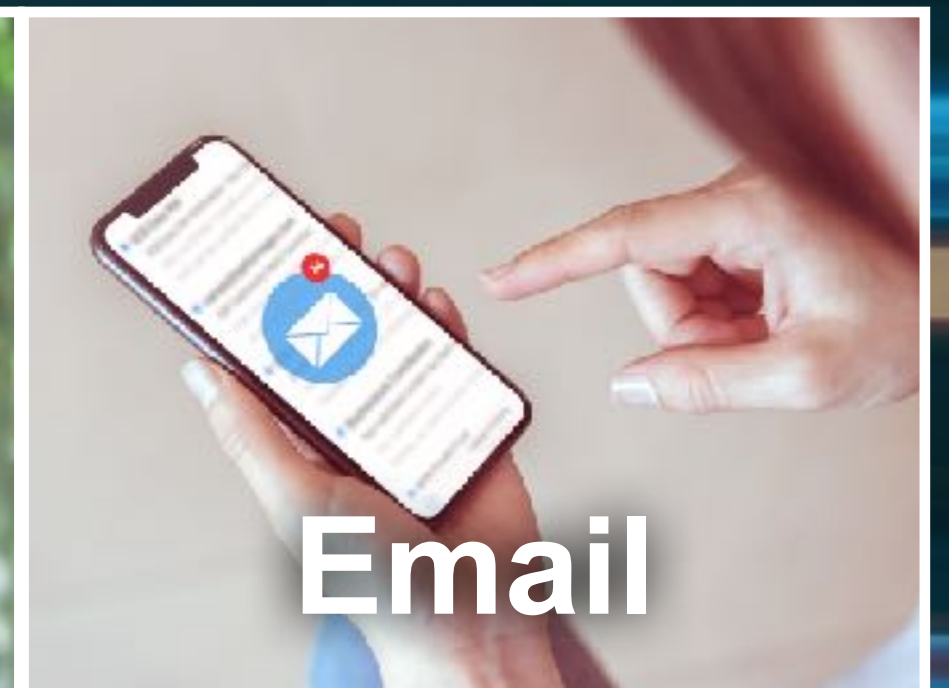
3rd Industrial Revolution (Automation)

PC/Internet
(Communication Infrastructure)

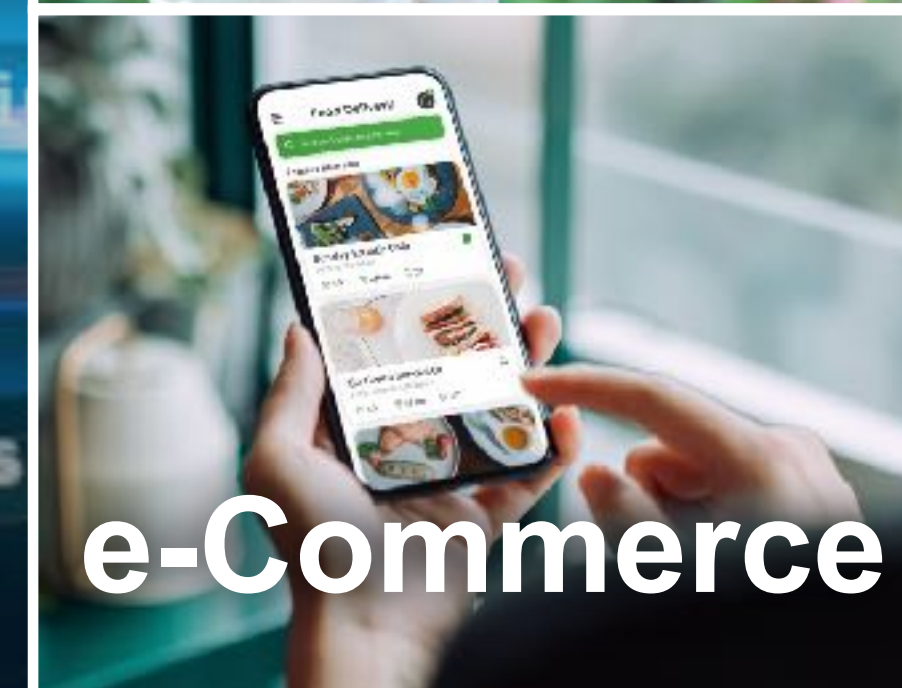
New Norms



Telephone



Email



e-Commerce

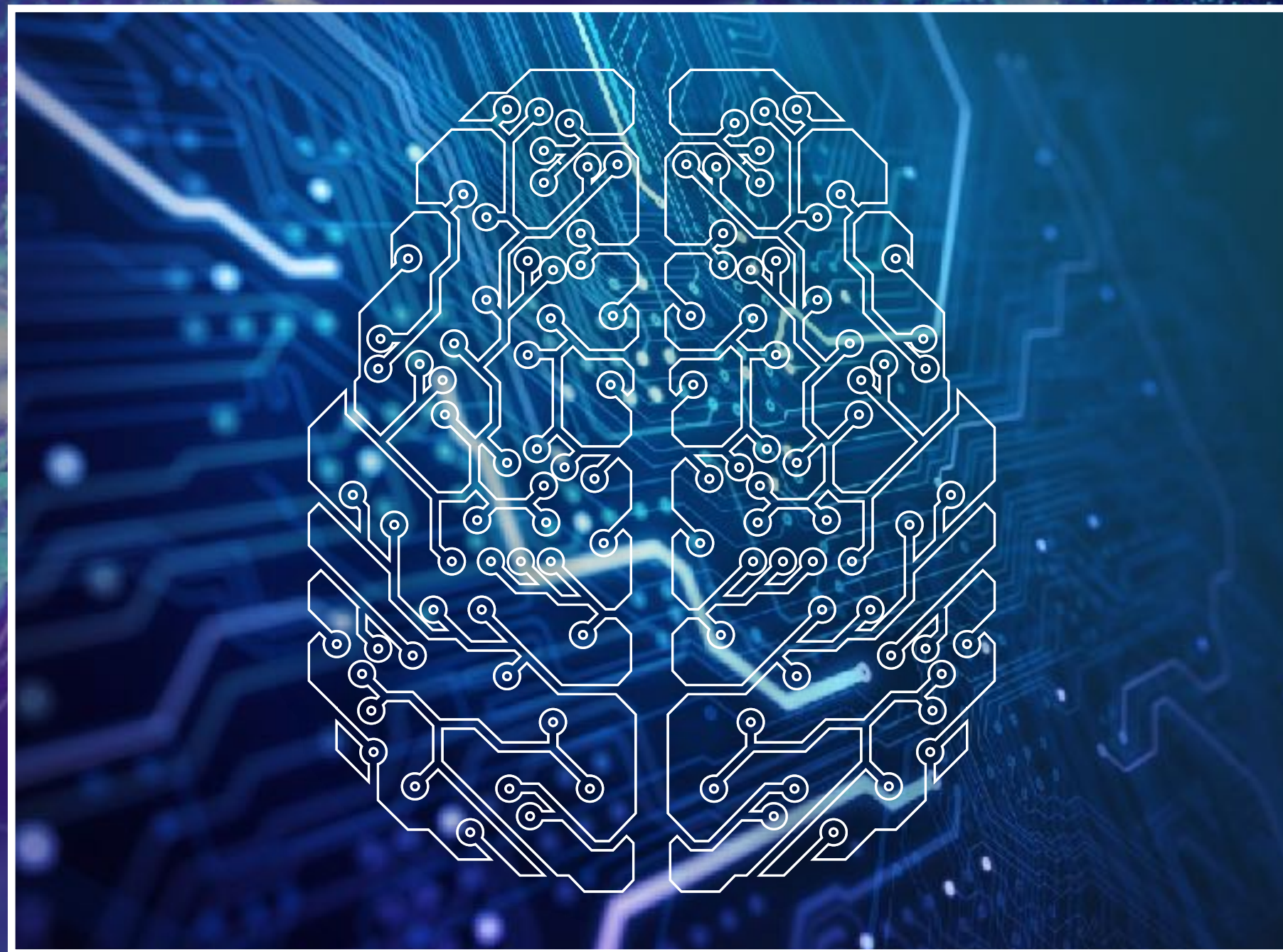


e-Payment

4th Industrial Revolution (Autonomy/Optimization)

AI

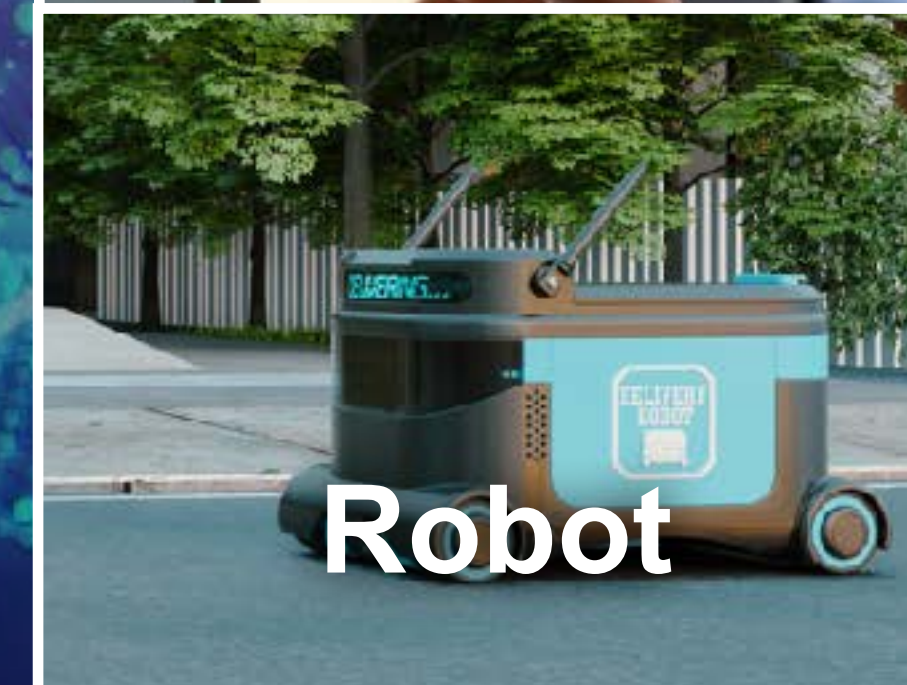
New Norms



Generative AI



Flying Taxi



Robot



Autonomous
factory

**The door to a society
that coexists with AI
will open,
new norms will emerge,
and a world
beyond our imagination
will unfold**



Society Enabled by the 4th Industrial Revolution



AI will become the norm, requiring the generation and processing of vast amounts of data

Computing Capacity Required for Data Processing

[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

Over 12,000

Rapidly growing data processing demand



Computing Capacity Required for Data Processing (Convert to Fugaku)

[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

Japanese Supercomputer

Fugaku

(432 racks / system)



©RIKEN

(Source) The estimates by SoftBank Corp. are based on the 5th Semiconductor and Digital Industry Strategy Review Conference (Ministry of Economy, Trade and Industry) (assuming the current trend of increasing computation load)

*The estimates by SoftBank Corp. are based on Fugaku system configuration: 415.5 PFLOPS (as of June 2020)

Number of racks at Fugaku: provided by RIKEN

Computing Capacity Required for Data Processing

(Convert to Fugaku)

[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



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Computing Capacity Required for Data Processing (Convert to large thermal power)

[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



2.2
plants

14
systems

6

28
plants

185
systems

77

360
plants

2,380
systems

989

4,500 plants

30,000 systems

Over 12,000

2020

2030

2040

2050

(Source) The estimates by SoftBank Corp. are based on the 5th Semiconductor and Digital Industry Strategy Review Conference (Ministry of Economy, Trade and Industry) (assuming the current trend of increasing computation load)
*The estimates by SoftBank Corp. are based on Fugaku system configuration: 415.5 PFLOPS (as of June 2020), large thermal power = 535,000 kW, large thermal power conversion = calculation capacity divide back to DC

Computing Capacity Required for Data Processing (Convert to large thermal power)

[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



2.2
plants

14
systems

6

185
systems

77

360
plants

2,380
systems

989

In case energy saving
is factored in
1/10~1/40

9 - 36 plants

2020

2030

2040

2050

(Source) The estimates by SoftBank Corp. are based on the 5th Semiconductor and Digital Industry Strategy Review Conference (Ministry of Economy, Trade and Industry) (assuming the current trend of increasing computation load)
*The estimates by SoftBank Corp. are based on Fugaku system configuration: 415.5 PFLOPS (as of June 2020), large thermal power = 535,000 kW, large thermal power conversion = calculation capacity divided back to DC.
For the calculation when energy saving is taken into account, our calculations are based on the impact of the development of the information society on energy consumption (Vol. 4) published by JST (Japan Science and Technology Agency).

Securing Energy Stability is Essential for Society Where AI Has Become an Ordinary Part of Daily Life


AI • DX

Digital Transformation



GX

Green Transformation



The Structure of Next-generation Social Infrastructure Required in the Future

Fundamentally Solve Structural Issues in Infrastructure

Present



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



Next-generation Social Infrastructure



Data processing and power will be **produced and consumed locally and leveling off**

1) Deployment of Distributed AI Data Centers

Regional Brain



Computing infrastructure



Core Brain

HPC • AI infra



Data Lake

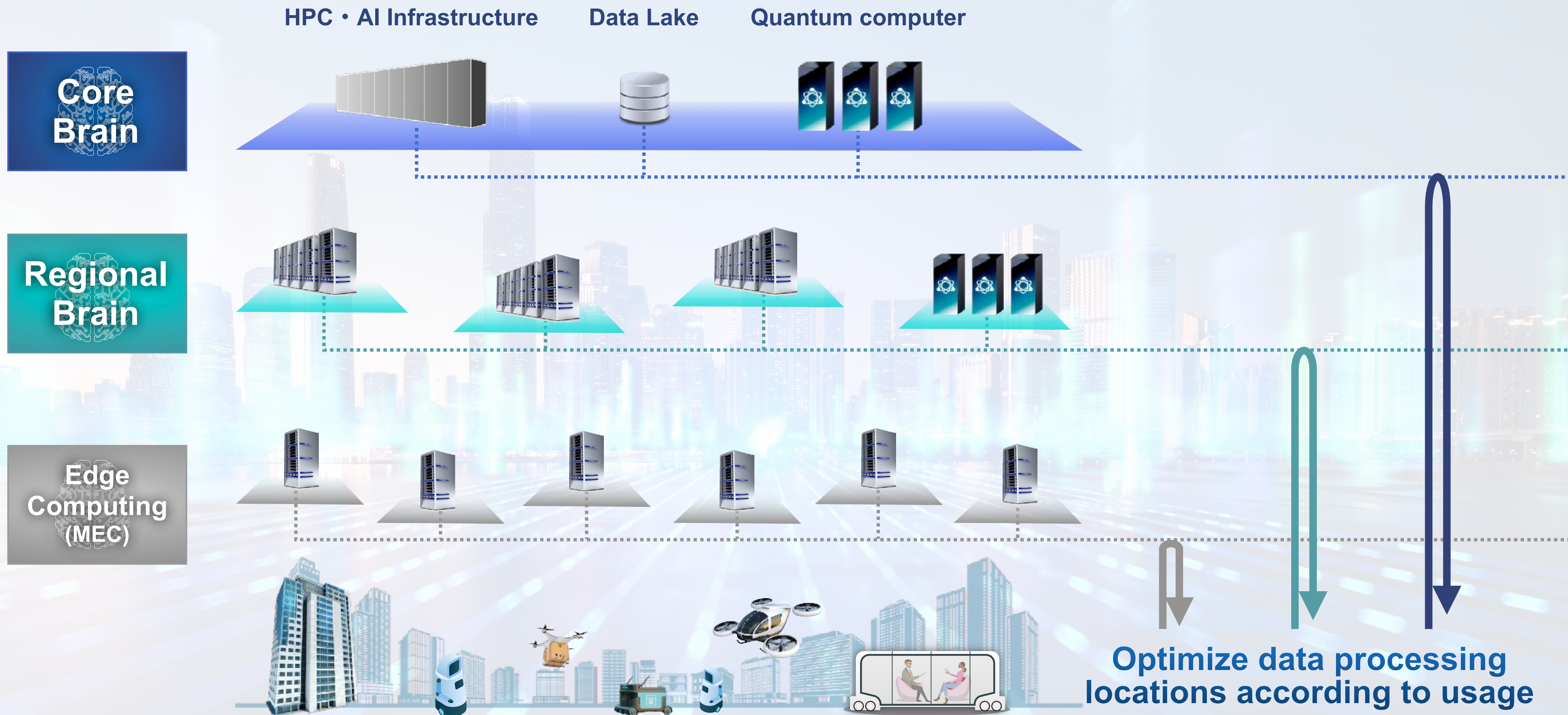


Quantum Computer

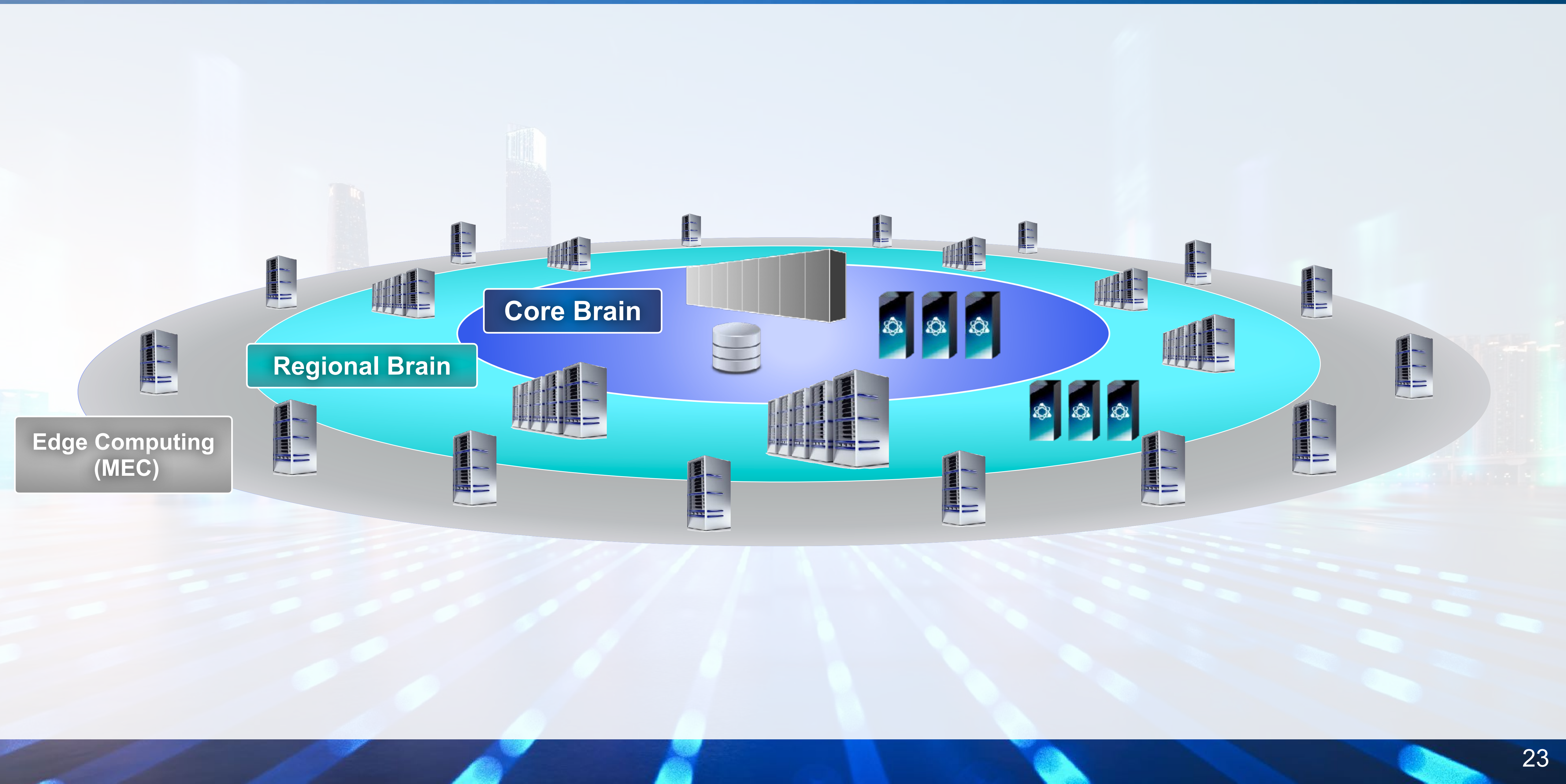


- Distributed computing infrastructure
- Green energy procurement

1) Deployment of Distributed AI Data Centers

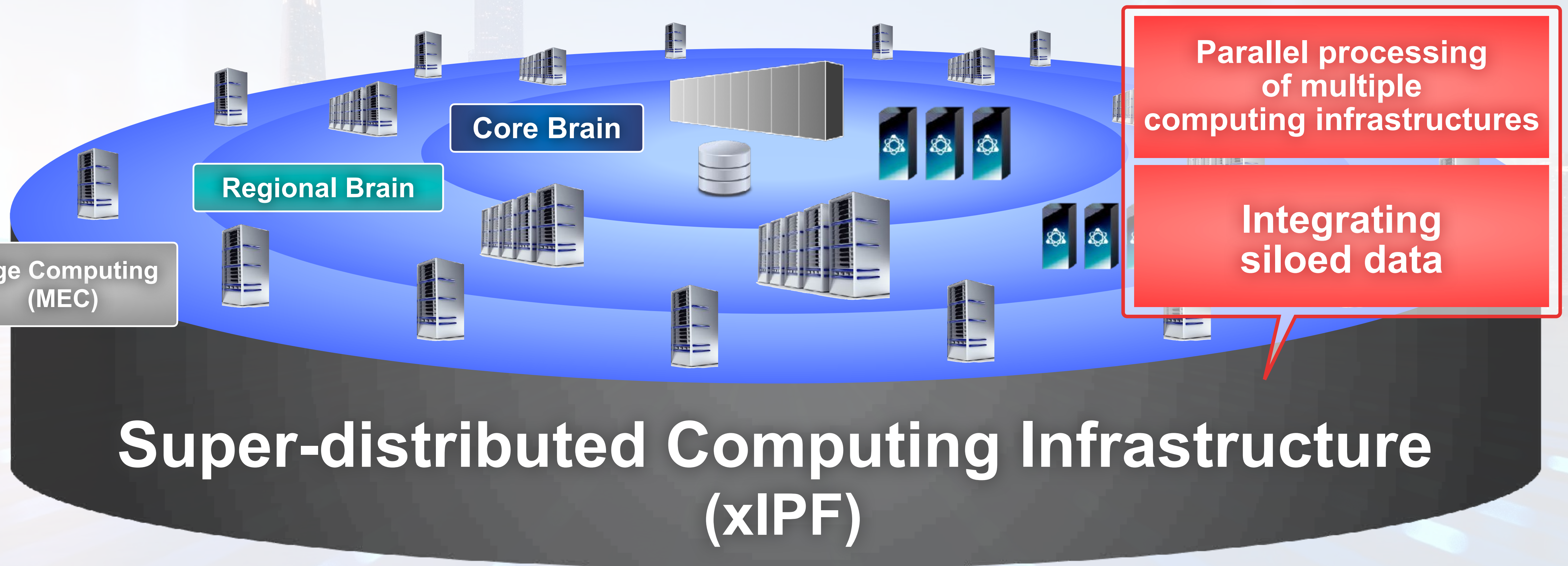


2) Construction of Super-distributed Computing Infrastructure



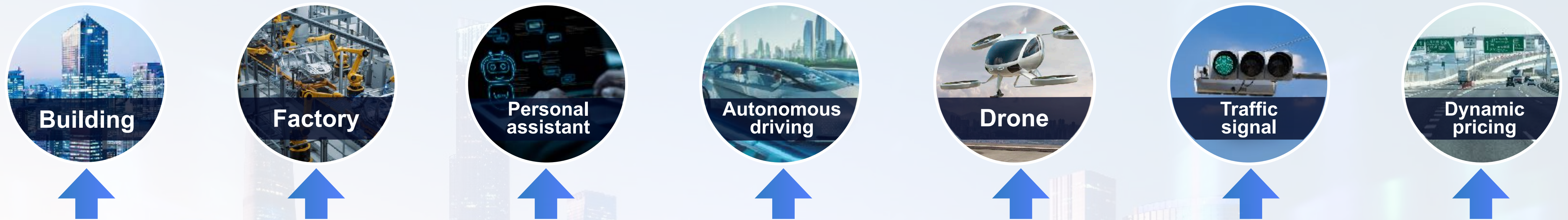
2) Construction of Super-distributed Computing Infrastructure

Enable Leveling Data Processing Nationwide



3) Establishment and Business Promotion of Generative Intelligence Cloud

Provide the computing infrastructure needed for a future coexisting with AI as a service



Infrastructure to Support Growth and Development of Japan

High Economic Growth Period



Railroad and Transportation Infrastructure

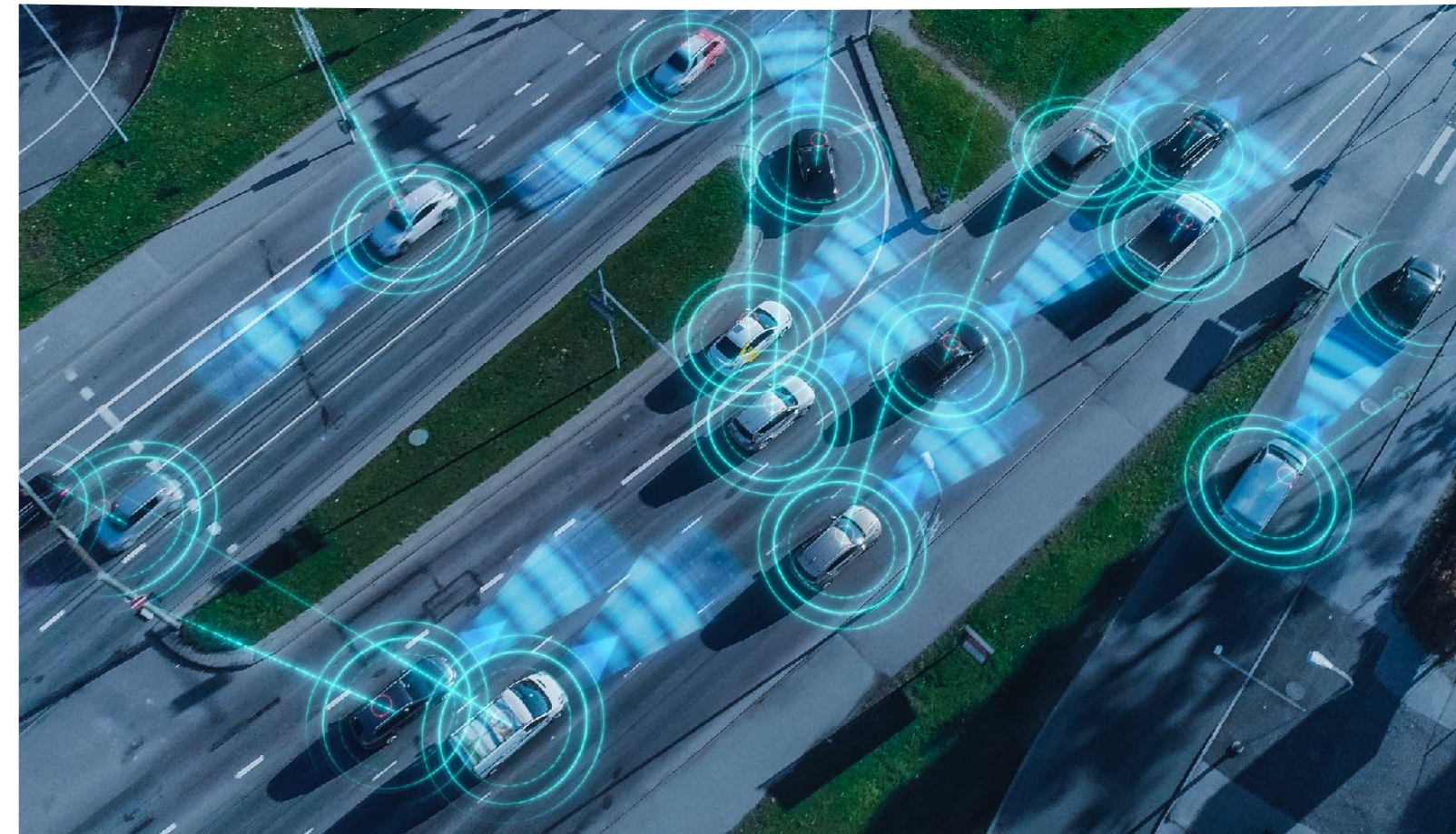
(Highways / Bullet trains / Airports)

Super Digitalized Society



Next Generation Infrastructure

(Regionally Distributed Data Centers / Green Energy)



Next-generation Social Infrastructure Essential for Development of Digital Society



