

Environmental & Social Solution Business

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Kazuhiko Takeuchi, Senior Vice President
NEC Networks & System Integration Corporation
(TSE: NESIC, 1973)

Self Introduction



Kazuhiko Takeuchi

Senior Vice President, Member of the Board, and
Executive General Manager,
Environmental & Social Solutions Business Unit

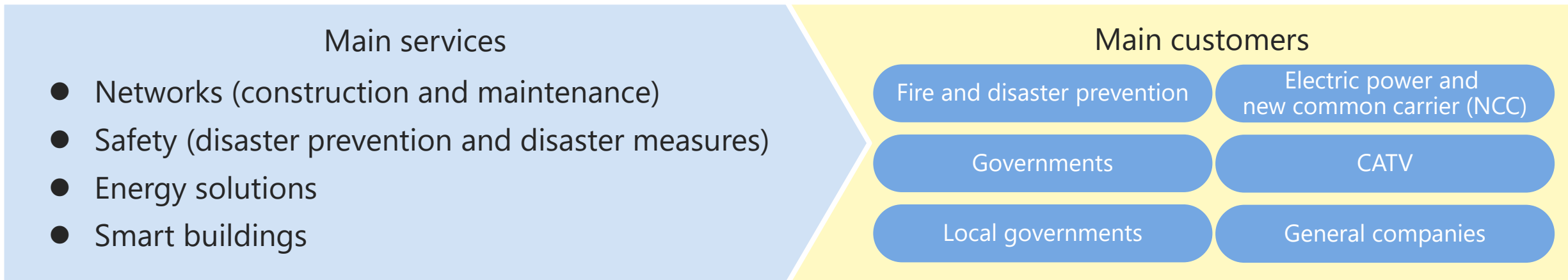
Career summary

- Joins the Company in 1985
- Successively held various responsible posts for sales/marketing, social infrastructure business and support service business.
- Assumed his current position in 2023 after the head of Network Solutions Business Unit

Overview of Environmental & Social Solutions Business



Operating businesses ranging from design and systems integration to support for social public infrastructure in Japan and beyond



Business strengths and characteristics

- Customer Base (approx. 4,000 companies)
- Nationwide construction and support service system
- Ability to propose solutions that combine business expertise with companywide assets

Basic Strategy on Environmental & Social Solutions

<2024 Vision>

An area ICT orchestrator that serves broad markets in Japan and overseas

Community development
DX x Beyond 5G
x Nationwide business capabilities

1

Promote community-development business

2

Step up actions towards a green society

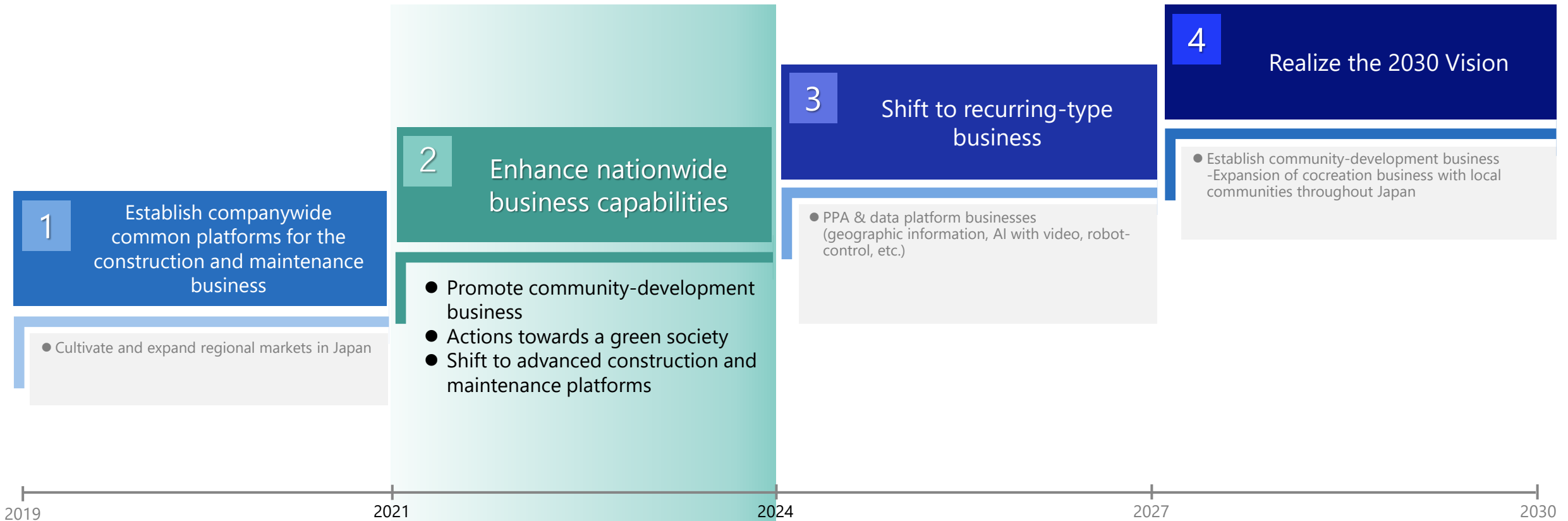
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Shift to advanced construction and maintenance platforms

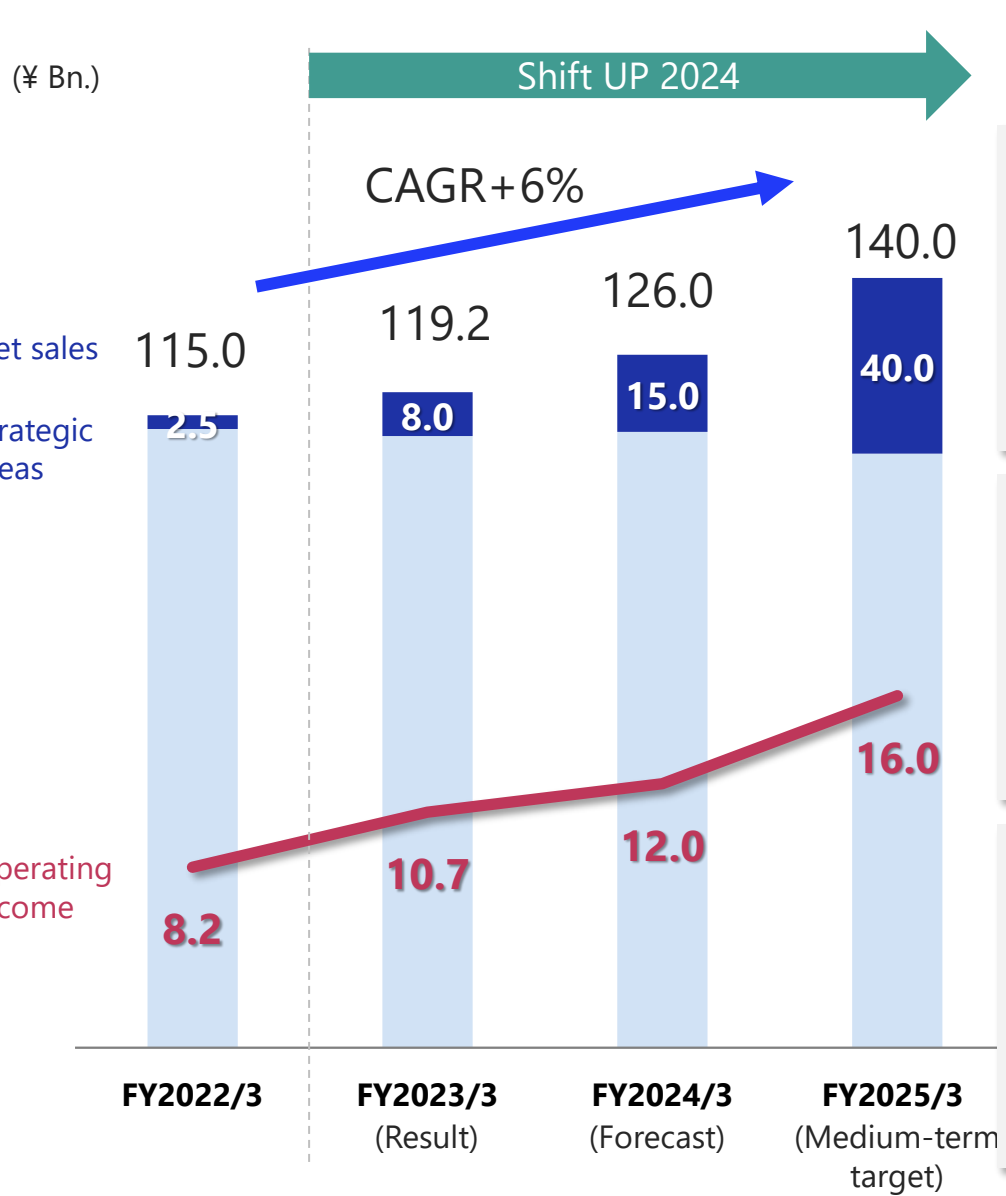
Growth Strategy

2030 Vision

A business operator for creating and developing safe and secure communities where people want to continue living, harnessing strengths in engineering and support, while serving local communities in harmony with the recycling society in Japan and abroad



Medium-Term Management Plan and Progress of Results



FY23/3 Net sales FY25/3 Net sales

Key Strategy 1: Promote Community Development Projects

Together with local customers, create smart communities that are safe and secure (Digital Garden City)

5 billion yen 20 billion yen

Key Strategy 2: Step Up Actions towards Green Society

Provide one-stop services for customers to achieve zero carbon emissions

3 billion yen 20 billion yen

Key Strategy 3: Shift to Advanced Construction and Maintenance Platforms

Enhance revenue by turning the construction work business into a recurring business
 Improve business efficiency and boost competitiveness through DX

Challenges to be Overcome for the Medium-term Management Plan

Achievements and challenges



- ✓ Steady progress in the expansion of strategic areas (target attainment rate: 100%)
- ✓ Further acceleration of profitability (target attainment rate: 86%)

Expand successful examples of FY2023/3 initiatives
Step up efforts in the area of high added-value to maximize profitability

Focus domains

Community development

Expansion of the offering model and development leveraging the customer base

Green

Rolling out expertise in self-implementation as a one-stop business
Expanding revenue by enhancing unique solutions

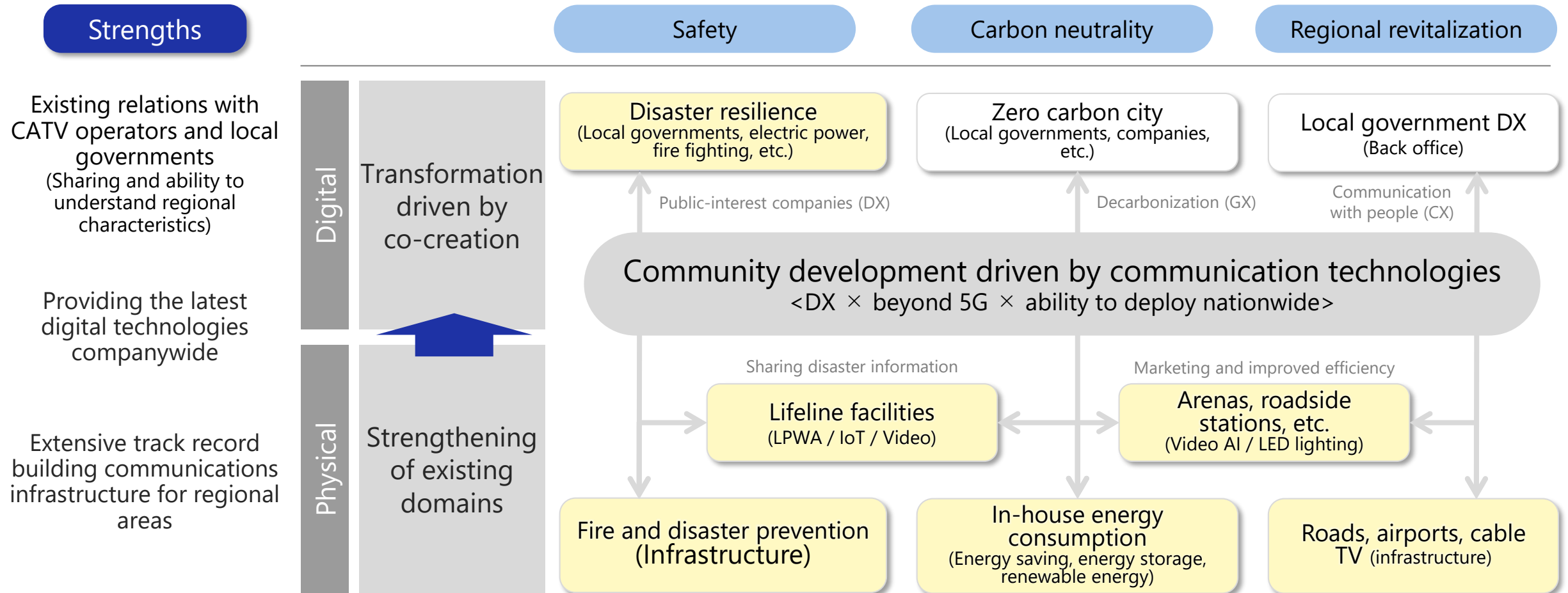
Existing

Construction and maintenance

Shifting to solution provision business that leads to recurring business

Community Development Strategy

- ✓ Shift to highly unique businesses that coordinate existing businesses (real) with digital value
- ✓ Develop models from examples related to the Digital Garden City concept and roll them out to other municipalities



Community Development Strategy (Examples)

- ✓ Service provision of disaster resilience map information system as common area platform
- ✓ Linking virtual spaces to multimedia disaster risk management offices

Strengths

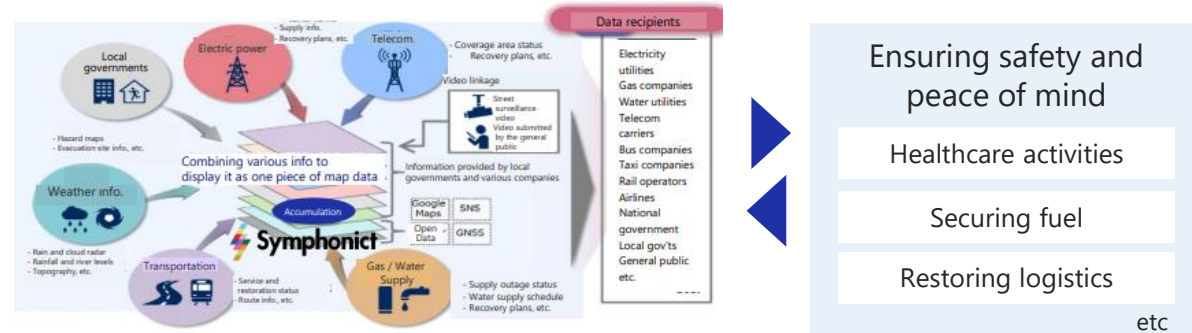
Co-creation activities between business operators across industries

Ability to provide services for geographical information, video and data utilization infrastructure
(Extensive experience with power companies)

Fire fighting and disaster prevention business customer base and operating expertise

- Quickly restoring disaster-affected infrastructure within a region through the centralized sharing of disaster information

Geographical information / video / data utilization model

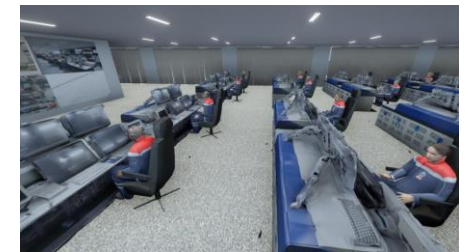


- Displaying multiple pieces of information in real-time
- Drastically improving the speed from ascertaining a situation to making decisions

Real & virtual disaster risk management office / BCP model



Real disaster risk management office



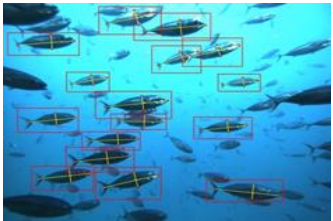
Virtual disaster risk management office

Community Development (Onshore Salmon Farm) Strategy

- ✓ By leveraging fisheries DX, rolling out aquaculture business with a low environmental impact as a franchise business model domestically and internationally

Strengths

- Achieve fisheries DX through collaboration between industry and academia
- Develop franchise model



Global expansion
Take on the challenge of
producing 10,000 tons

2024



2023

- Fuji/Katsuragawa
Factory land-based aquaculture facility
begins operating

2030

Target sales 30 billion yen* (Largest in Asia)
Develop a CO2 emission reduction model for
salmon production

* Including franchises

Franchise expansion and globalization

- ✓ The first franchise model in the fisheries industry
- ✓ Provision of systems that combine real and digital technologies
- ✓ Global rollout from NESIC's local subsidiaries

Strategy to Step Up Actions Towards a Green Society

- ✓ Provide one-stop services for customers to achieve carbon neutrality using our expertise in self-implementation
- ✓ Differentiation leveraging co-creation driven technology and product development as strengths

Expertise in self-implementation

- 100% reduction in CO2 emissions (Scope 1, Scope 2) (compared with FY2020/3 levels, by FY2031/3)
- Development of technologies through co-creation between industry and academia

Visualization

- Butics + Kloudspot

Streamlining for power consumption

- Immersion cooling
- Large specialized LED lighting
- Facility management (Butics)

Consultation

Carbon offset

- Satellite image analysis

Substitution

- PPA
- Energy storage (storage batteries)

Strategy to Step Up Actions Towards a Green Society

- ✓ Steady efforts underway to accumulate know-how through demonstrations

Examples of solutions for power saving measures

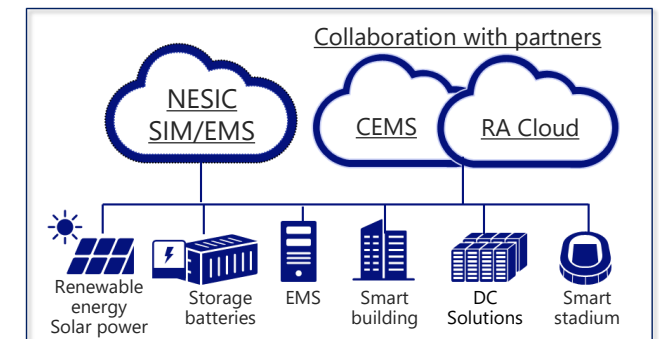
- ✓ Achieving 94% reduction in electricity consumption using liquid cooling of servers in a data center,
- ✓ Achieving PUE value (indicating electricity usage efficiency in a data center) of 1.05

- Installation design, procurement and construction of equipment and comprehensive monitoring system
- Establishment of optimum maintenance design, operation and maintenance schemes



Examples of storage battery system demonstrations

- ✓ Design, construction/SI and maintenance services of storage battery system for supply-demand adjustment market
- ✓ Support for demonstration utilizing and operating multiple renewable energy and storage battery resources



Strategy to Develop a More Sophisticated Construction Business

- ✓ Shifting to a business providing system solutions leveraging engineering capabilities as a strength

Market strengths

Customer base of public-interest companies (approx. 2,000 companies)

Technology strengths

Provision of uniqueness and "one-and-only" solutions

Co-creation capabilities

Partnerships with regional businesses and local companies

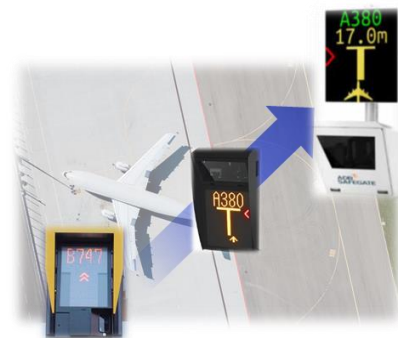
Road solutions

- ✓ Products developed in-house for ease of construction and maintenance
- ✓ Expansion to next-generation networks



Airport solutions

- ✓ One-and-only
- ✓ Launch of new models on the market
- ✓ Extensive track record



Real sharing of environmental information at a center

Ongoing proposals of operating improvements for customers



Center coordination to support the safe operation of parked aircraft

Strategy to Develop a More Sophisticated Support Service Business

- ✓ Streamlining of customer contact points through the DX and AI utilization and improved CS through shorter response times
- ✓ Automate customer business processes to provide as services

Market strengths

Support for a wide range of industries

(Approx. 3,000 companies including telecom carriers, public entities, private demand)

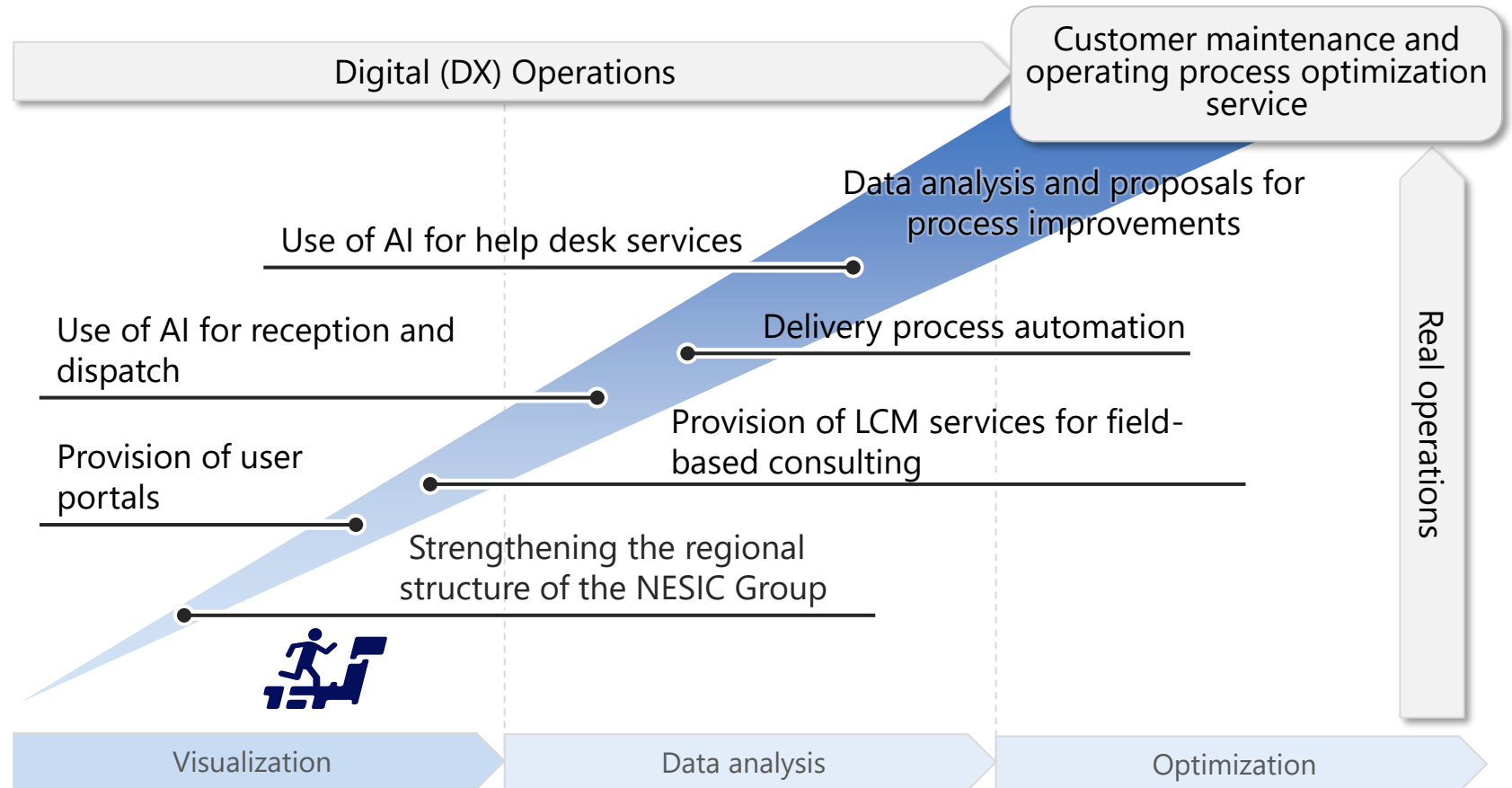
Technology strengths

Customer support expertise and information accumulated over many years

Ability to execute strategy

Nationwide support services structure

(Shortened downtime, disaster response)



Cultivating Advanced and Specialized Human Resources

Supervising engineers	2023/3	2025/3
	825	940

Advanced DX professionals	2023/3	2025/3
	43	140

Beyond 5G professionals	2023/3	2025/3
	419	590

Cultivating the human resources needed to achieve growth strategy

Cultivating engineers through KTC* utilization and our self-implementation



* KTC: Shin-Kawasaki Technical-Base

● Supervising engineers

- Telecommunication construction supervising engineer
- Electrical construction supervising engineer

Advanced DX professionals

● DX engineers

- Video AI, data analysis
- Low-code development

Supervising engineers

Beyond 5G professionals

● Beyond 5G networking engineers

- Virtualization, public cloud computing
- 5G/BWA

Cautionary Statement

Forecasts and targets of results mentioned in this document are future estimates and are thus inclusive of risks and uncertain factors since they are not based on definite facts. Please be aware that a variety of factors could cause actual results to differ significantly from those projected. The major factors affecting actual results include the economic climate and social trends surrounding the business of this Company's group, consumer trends vis-a-vis systems and services provided by this Company's group, as well as pressure to lower prices and ability to cope with the market in response to intensified competition.

Factors affecting results are not limited to the ones mentioned above.

There was segment change in April 2022. Segment information for the FY 2022/3 have been recalculated to reflect the change in the content of business segments.

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<https://www.nesic.co.jp/english/ir/>