

Hitachi Investor Day 2024

Digital Strategy

June 11, 2024

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1-1. Progress of the Mid-term Management Plan 2024





Digital strategy under the Mid-term Management Plan 2024:
Improve profitability of the Hitachi Group through the growth and high profitability of Lumada business



1-2. Digital Markets in Focus



Focus on markets where Hitachi can maximize its IT, OT and Products advantages





DX market size in 2027 (2024-2027 CAGR)



490 billion dollars (CAGR +20%)

National and local governments

340 billion dollars (CAGR +13%)

Telecommunications and media

260 billion dollars (CAGR +17%)

Energy

210 billion dollars (CAGR +13%) Transport and logistics

180 billion dollars (CAGR +15%) 1,080 billion dollars (CAGR +15%)

Manufacturing



200 billion dollars (CAGR +17%)



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2-1. Expansion of Front Business and IT Services Business

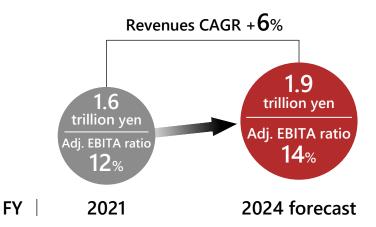


Become Japan's No. 1 vendor with high profitability capable of completing large-scale, high-complexity projects by further enhancing our ability to execute SI and DX projects

Domestic IT market size*2 (2027) 14 trillion yen CAGR (2024-2027) +5%

Performance trends of front business and IT services business*1

Growth in both revenues and profitability due to the expansion of large-scale mission-critical SI and DX projects, which are Hitachi's strengths



Strengthen the execution of SI and DX projects

Strengthen project management



Optimize resource utilization of approximately 60,000 persons/month

through meticulous project management and strict phase-gate control

Strengthen talent pool and improve productivity



Utilize GlobalLogic's engineers to boost resources for domestic projects

Utilize GlobalLogic's engineers
FY2024 target:
2,000 engineers/month
(YoY over 2.5 times)



Thorough use of generative Al to improve SI productivity

Domestic generative Al projects

FY2023 Orders : 65 Inquiries : 700

^{*1} Financial Institutions BU, Social Infrastructure Systems BU, Hitachi Systems and Hitachi Solutions

^{*2} Excluding hardware (Source: Hitachi)

2-2. Expansion of Global Business : GlobalLogic

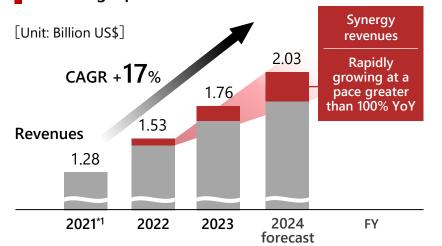


GlobalLogic maintains its high growth with the expansion of synergy within the Hitachi Group

Digital engineering market size* 2 (2027) 250B\$

CAGR (2024-2027) +17%

GlobalLogic performance trends



Revenues volume and growth rate of global competitors

	Revenues	(FY2023)	YoY
Company A		5B US\$	(3)%
Company B		2B US\$	+18%

Efforts to create synergy

Participation in projects in the OT domain

Number of synergy projects currently underway

April 2023

March 2024

April 2023 March 2024 129PJ

Examples: •

- Enterprise asset management system
- Monitoring solutions of railway infrastructure
- Semiconductor manufacturing data platform
- Biopharmaceutical cultivation simulator

Hitachi Energy

- Hitachi Rail
- Litachi Liah Tach
- Hitachi High-Tech
- Water & Environment BU

End-to-end delivery of DX services

Example: Modernization of major U.S. financial institutions

Support the modernization from on-premises to public cloud environments on an E2E basis through advisory, framework development and other activities

GlobalLogic × Hitachi Vantara × Hitachi Digital Services

^{*1} GlobalLogic's performance in FY2021 includes figures prior to the completion of the acquisition

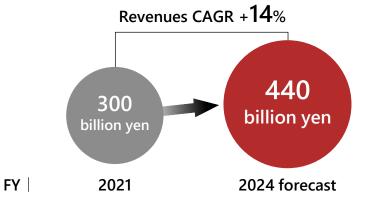
^{*2} Size in Hitachi's focus markets (Source: Hitachi) BU: Business Unit

2-3. Expansion of Global Business : Cloud Managed Services



Expansion of the global cloud managed services business

Performance trends of cloud managed services which delivers high-reliability and high-efficiency cloud environments



Examples of high-growth cloud managed services

- HARC
 Cloud-type ID management (ID as a Service)
- Standardization of municipal systems, delivery of government cloud

Cloud managed services market size*1 (2027) 190B\$

CAGR (2024-2027) +14%

Expand HARC business

which continuously supports and improves cloud operation

Revenues growth in FY2024 (forecast) YoY +36%

- Providing services to **over 40 companies**, primarily in North America, since the commencement in 2022
- Plan to expand global service delivery centers to 5 locations*2

Customer cases

• Major HVAC and disaster prevention equipment company (North America)

Enhance reliability of mission-critical maintenance system operations
Proactively address 90% of system errors, and automate 30% of routine operational tasks

Major pharmaceutical company (Europe)

Optimize operations and security measures for systems fully migrated to the cloud Improved cloud operations productivity by 80% and reduced cloud costs by 30%

ORIX Bank (Japan)

Select Hitachi as partner to reform cloud operations

Develop an operations evaluation and improvement roadmap, formulation of scheme, rules and process for operational structure

HARC: Hitachi Application Reliability Centers

2-4. Digitalization in the OT Domain: Energy (1)



Optimize operation and maintenance of infrastructure facilities that support electricity demand

DX market size in Energy* (2027) 210B\$

CAGR (2024-2027) +13%



Lumada Asset Management

Hitachi Energy, GlobalLogic, Hitachi Digital Services

Electric power equipment

X

Condition monitoring, data analysis

Support asset-intensive industries through integrated management of vast facility assets and health diagnostics of critical facilities





2-5. Digitalization in the OT Domain: Energy (2)



Accelerate the introduction of renewable energy in Japan with energy solutions that have a global track record and competitive edge

DX market size in Energy*3 (2027) 210B\$

CAGR (2024-2027) +13%





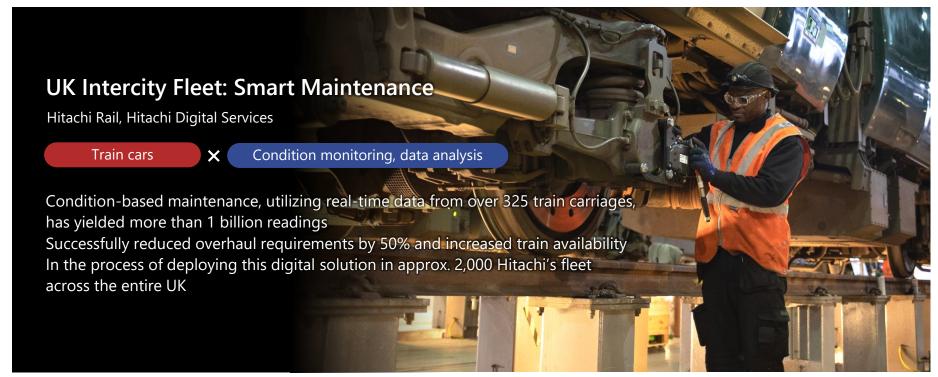
2-6. Digitalization in the OT Domain: Mobility (1)



Sophisticate operation and maintenance, which account for 40%*1 of railway business expenditures Achieve sustainable railway infrastructure

DX market size in Mobility* 2 (2027) 180B\$

CAGR (2024-2027) +15%



2-7. Digitalization in the OT Domain: Mobility (2)



Expand public EVs to promote local decarbonization

DX market size in Mobility* (2027) 180B\$

CAGR (2024-2027) +15%



ZeroCarbon Solutions

Hitachi Rail, Hitachi ZeroCarbon, GlobalLogic, Hitachi Digital Services

EV battery

× 🚺

CX design, data analysis

Real-time monitoring of charging status to realize operational efficiency of EV batteries and to optimize power demand/supply

(leverage the Optimise Prime PJ for 8,000 commercial EV trial)





2-8. Digitalization in the OT Domain: Industry (1)



Enhance profitability in the after-sales market by adding value to services through CX design DX market size in Industry * (2027) 1,080B\$

CAGR (2024-2027) +15%



2-9. Digitalization in the OT Domain: Industry (2)



Accelerate the use of recycled materials and contribute to a circular economy

DX market size in Industry* (2027) 1,080B\$

CAGR (2024-2027) +15%





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3-1. Entering a New Stage of Growth with Generative Al



Seize new opportunities for growth utilizing generative Al





- System development and renovation by customers
- Office workers' and front-line workers' operations

Hitachi's initiatives

- Accumulation of AI technology by GlobalLogic
- Use of generative AI in the mission-critical domain
- Application of generative AI in the OT domain



- hybrid cloud storage
- Green, resilient data center

Hitachi's initiatives

- Growth of data management business leveraging generative AI as an opportunity
- Seize business opportunities in data centers

3-2. Accumulation of AI Technology by GlobalLogic



Accelerate the delivery of value to customers by leveraging GlobalLogic's advanced technology across the Hitachi Group

- GlobalLogic strengths
- Lead industry in Al-related offerings for more than 10 years
 - Delivery achievements in Al projects

→ 500+ projects

Number of engineers specializing in Al

9,700+ engineers

 Range of intelligence engineering offerings to meet customers at their level of Al maturity



Al platform & Data engineering



LLM training & Adoption



Content engineering & ML Ops





Hyper personalization



Knowledge management

 Technology development to accelerate service delivery to customers

Platform of Platforms

GlobalLogic has built the One Hitachi architecture that integrates GlobalLogic, Hitachi, and partner solutions with hyper-scaler generative AI to enable enterprise customers to deploy generative AI at scale

SDLC: Software Development Life Cycle

CEO of Digital Engineering Business Unit President & CEO of GlobalLogic

Nitesh Banga



3-3. Use of Generative AI in the Mission-critical Domain



Expand co-creation with customers by utilizing generative Al in large-scale system development and business transformation

Examples of projects

Increase productivity in system development

Productivity improvement by 30% or more*1

Improve efficiency of customers'operations

Operations streamlined by **50%** or more*2

Examples of projects





Applications in developmental tasks from the requirements definition to testing

Migration

Applications for the efficiency in the visualization of current specifications and the cross-checks between current and new systems

Automation of response to inquiry

Achieve high response accuracy through follow-up queries from generative Al

Sophistication of sales and marketing

Streamline and increase the sophistication of the selection and preparation of themes for customer proposal

Examples of co-creation with customers in financial sector*3













Tokio Marine & Nichido Fire Insurance Co., Ltd.

^{*1} An indicator of financial business' target for development operations in FY2024. The new system development project includes programming and unit test processes while the migration project includes the visualization of current specifications and cross-checks between current and new systems

^{*2} Result of initial joint verification with customers based on specific use cases

^{*3} Customers which co-create with Hitachi as one of the partners in generative AI projects (listed in an alphabetical order)

3-4. Application of Generative AI in the OT Domain



Support front-line worker operations with generative AI by leveraging domain knowledge and on-site expertise in the OT domain

Social issues

Difficulty in transferring technology and knowledge

Number of front-line workers decreases by 200 thousand people every year*1

> Economic loss resulting from unplanned line stoppage

Productivity decreases by 5% - 20%^{*2}

Energy

Simulate the large-scale construction process

In the plant replicated in a metaverse space, generative Al extracts things and operational information. This facilitates communication about work processes between the multiple people involved and saves workers from backtracking

Industry

Talkative products for industrial use

The machine talks with workers about the causes of failures and malfunctions and the actions to address them. It helps shorten the time to restoration by correctly extracting operational knowledge





^{*1} Calculated by Hitachi based on publicly available information for Japan

^{*2} Calculated by Hitachi based on publicly available information for the manufacturing industry

3-5. Growth of Data Management Business Leveraging Generative Al Opportunities



Accelerate growth with generative AI platform that maximizes value by properly managing company-specific data and open data

Hybrid cloud market size* (2027) 120B\$

CAGR (2024-2027) +12%



Service



Data management



LLM service



(AI)

Generative Al platform



Data center



Innovative AI solution portfolio jointly developed by NVIDIA and Hitachi Vantara

Hybrid cloud storage

On premise
Hitachi Enterprise Storage

Company-specific data

Data volume CAGR (2024-2027) +18% *

Cloud

Hitachi Software-Defined Storage

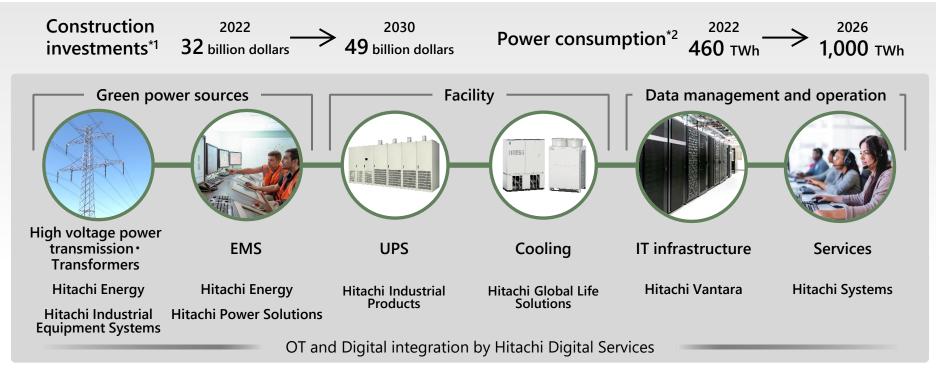
Open data

Data volume CAGR (2024-2027) +38% *

3-6. Seize Business Opportunities in Data Centers



Capture the growing data center demand through total integration of OT and Digital



3-7. Partnering to Accelerate Al Innovation



Build a generative AI ecosystem leveraging the strengths of global partners







Advanced AI software GPU technologies

IT × OT × Products Domain knowledge Generative AI
Cloud technologies and services

Examples of initiatives with each partner

Collaborative development of AI solutions

- "Hitachi iQ" with advanced GPU and next-generation storage
- Apply AI solutions to the OT domain such as energy and railways
- Advanced hybrid cloud solutions
- Establish Center of Excellence(CoE)

Talent development

- Develop highly-skilled engineers with deep knowledge of generative AI and cloud computing
- Significant improvement in internal productivity

3-8. Strategic Investment in Generative Al



Invest 300 billion yen in generative AI, evolving Lumada to its next phase



Infrastructure development

supporting the delivery of generative AI services

- Develop a common platform for generative AI
- Enhance Hitachi iQ and hybrid cloud services
- Incorporate Hitachi's unique domain knowledge into large language models (LLMs)
- Develop generative AI data center



Services and engineering enhancement

facilitating customers' intellectual operations and improving on-site productivity

- Generative Al lifecycle service
 Optimize the process from the data center to the operation of generative Al by strengthening HARC and provide it on as-a-Service
- Expand insourcing to GlobalLogic



Expansion of generative AI talents

leading the evolution of Lumada

Upskilling engineers through training programs

Train 50 thousand generative AI specialists and make all Hitachi employees ready for generative AI

- Acquire talents through M&A
- Investment and partnership with startups



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4. Conclusion



Achieve the Mid-term Management Plan 2024 by maintaining high growth in SI/DX business and GlobalLogic Innovate Lumada with generative AI to enter into a new phase of growth

2023

Lumada business of Hitachi Group	2022	2023	2024
Revenues ratio	26%	27%	29%
Adj. EBITA ratio	14%	15%	16%

DSS sector

Revenues ratio	2.4 trillion yen	2.6 trillion yen	2.7 trillion yen
Adj. EBITA ratio	12.3%	12.8%	13.5%
Core FCF	3-year cum	ulative 0.6 trill	ion yen

2022

2024

Target level

Achieve globally top-level profitability by combining IT x OT x Products

Lumada business of Hitachi Group

Revenues ratio : 40% Adj. EBITA ratio : 20%

DSS sector

Adj. EBITA ratio : 15~17%

Hitachi Social Innovation is POWERING GOOD



Appendix. Management Structure





Special Advisor Francisco D'Souza (Former CEO of Cognizant)



CMO

Mashima

General Manager of Digital Systems & Services Tokunaga



Head of Digital Systems & Services APAC Business Ueda



CEO Taniguchi Executiv

Hitachi America CEO



Hitachi Digital

Executive Chairman Samant

in charge of
Regional Strategies
[Americas] of Hitachi Group

Business units and major group companies

Financial Institutions BU



CEO Ueda

Social Infrastructure Systems BU



CEO Nagano

Hitachi Systems



President Shibahara

Hitachi Solutions



President Yamamoto

Cloud Services Platform BU



CEO Hosoya

Hitachi Vantara



CEO Rohra

Hitachi Digital Services



CEO Lvin

Digital Engineering BU/ GlobalLogic



CEO Banga

Cautionary Statement



Certain statements found in this document may constitute "forward-looking statements" as defined in the U.S. Private Securities Litigation Reform Act of 1995. Such "forward-looking statements" reflect management's current views with respect to certain future events and financial performance and include any statement that does not directly relate to any historical or current fact. Words such as "anticipate," "expect," "estimate," "forecast," "intend," "plan," "project" and similar expressions which indicate future events and trends may identify "forward-looking statements." Such statements are based on currently available information and are subject to various risks and uncertainties that could cause actual results to differ materially from those projected or implied in the "forward-looking statements" and from historical trends. Certain "forward-looking statements" are based upon current assumptions of future events which may not prove to be accurate. Undue reliance should not be placed on "forward-looking statements," as such statements speak only as of the date of this report.

Factors that could cause actual results to differ materially from those projected or implied in any "forward-looking statement" and from historical trends include, but are not limited to:

- economic conditions, including consumer spending and plant and equipment investment in Hitachi's major markets, as well as levels of demand in the major industrial sectors Hitachi serves;
- exchange rate fluctuations of the yen against other currencies in which Hitachi makes significant sales or in which Hitachi's assets and liabilities are denominated;
- uncertainty as to Hitachi's ability to access, or access on favorable terms, liquidity or long-term financing;
- uncertainty as to general market price levels for equity securities, declines in which may require Hitachi to write down equity securities that it holds;
- If uctuations in the price of raw materials including, without limitation, petroleum and other materials, such as copper, steel, aluminum, synthetic resins, rare metals and rare-earth minerals, or shortages of materials, parts and components;
- credit conditions of Hitachi's customers and suppliers;
- general socioeconomic and political conditions and the regulatory and trade environment of countries where Hitachi conducts business, particularly Japan, Asia, the United States and Europe, including, without limitation, direct or indirect restrictions by other nations on imports and differences in commercial and business customs including, without limitation, contract terms and conditions and labor relations:
- uncertainty as to Hitachi's ability to response to tightening of regulations to prevent climate change
- uncertainty as to Hitachi's ability to maintain the integrity of its information systems, as well as Hitachi's ability to protect its confidential information or that of its customers;
- uncertainty as to Hitachi's ability to attract and retain skilled personnel;
- uncertainty as to Hitachi's ability to continue to develop and market products that incorporate new technologies on a timely and cost-effective basis and to achieve market acceptance for such products;
- exacerbation of social and economic impacts of the spread of COVID-19;
- the possibility of disruption of Hitachi's operations by natural disasters such as earthquakes and tsunamis, the spread of infectious diseases, and geopolitical and social instability such as terrorism and conflict;
- estimates, fluctuations in cost and cancellation of long-term projects for which Hitachi uses the percentage-of-completion method to recognize revenue from sales;
- increased commoditization of and intensifying price competition for products;
- fluctuations in demand of products, etc. and industry capacity;
- uncertainty as to Hitachi's ability to implement measures to reduce the potential negative impact of fluctuations in demand of products, etc., exchange rates and/or price of raw materials or shortages of materials, parts and components;
- uncertainty as to the success of cost structure overhaul;
- uncertainty as to Hitachi's ability to achieve the anticipated benefits of its strategy to strengthen its Social Innovation Business;
- uncertainty as to the success of acquisitions of other companies, joint ventures and strategic alliances and the possibility of incurring related expenses;
- uncertainty as to the success of restructuring efforts to improve management efficiency by divesting or otherwise exiting underperforming businesses and to strengthen competitiveness;
- the potential for significant losses on Hitachi's investments in equity-method associates and joint ventures;
- uncertainty as to the outcome of litigation, regulatory investigations and other legal proceedings of which the Company, its subsidiaries or its equity-method associates and joint ventures have become or may become parties;
- the possibility of incurring expenses resulting from any defects in products or services of Hitachi;
- uncertainty as to Hitachi's access to, or ability to protect, certain intellectual property; and
- uncertainty as to the accuracy of key assumptions Hitachi uses to evaluate its employee benefit-related costs.

The factors listed above are not all-inclusive and are in addition to other factors contained elsewhere in this report and in other materials published by Hitachi.

* This document has been translated from the Japanese original for reference purposes only. In the event of any discrepancy between this translated document and the Japanese original, the original shall prevail.