

Hitachi Investor Day 2024

Digital Strategy

June 11, 2024

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- 1. Progress of the Mid-term Management Plan 2024
- 2. Growth with Digital
- 3. Innovation of Lumada with Generative Al
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1-1. Progress of the Mid-term Management Plan 2024





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

-Ö-LUMADA



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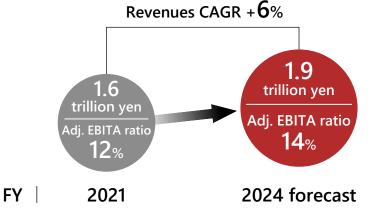
2-1. Expansion of Front Business and IT Services Business

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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

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



 Domestic IT market size*2 (2027)
 CAGR (2024-2027)

 14 trillion yen
 +5%

Strengthen the execution of SI and DX projects

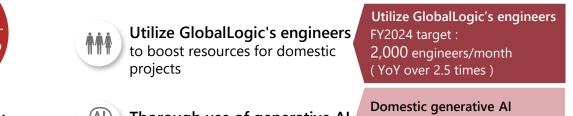
Strengthen project management



Optimize resource utilization of approximately 60,000 persons/month

through meticulous project management and strict phase-gate control

Strengthen talent pool and improve productivity



Thorough use of generative AI to improve SI productivity

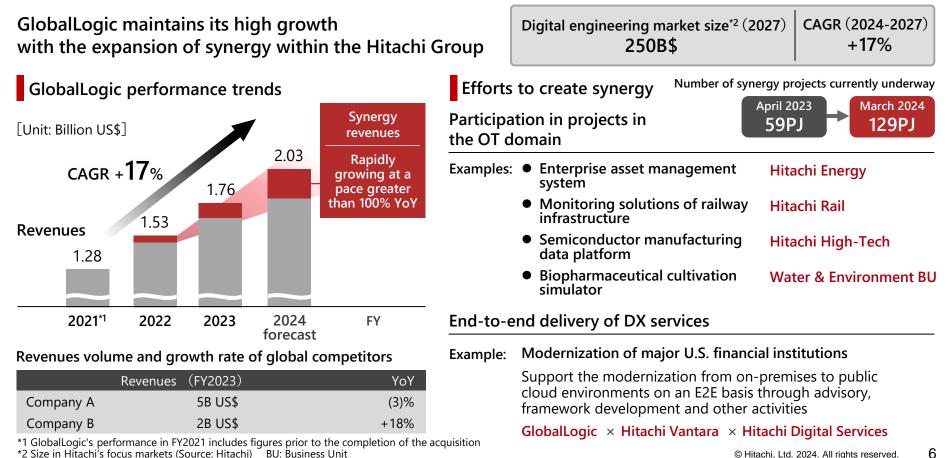
Domestic generative AI projects

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





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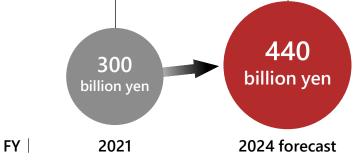
2-3. Expansion of Global Business : Cloud Managed Services



Expansion of the global cloud managed services business

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

Revenues CAGR +14%



Examples of high-growth cloud managed services

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

HARC: Hitachi Application Reliability Centers

Cloud managed services market size*1 (2027)	CAGR (2024-2027)
190B\$	+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

*1 Source: Hitachi *2 Under operation in Dallas, Hyderabad, and Tokyo; with preparations underway for opening in Lisbon and Ho Chi Minh

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)
 CAGR (2024-2027)

 210B\$
 +13%



Lumada Asset Management

Hitachi Energy, GlobalLogic, Hitachi Digital Services

Electric power equipment

Condition monitoring, data analysis

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

X

Energy provider (Ohio, US)

Evaluate the health of substation equipment based on field data and facility information Reduce the risk of power outages and improve the efficiency of maintenance operations

Energy provider (Illinois, US)

Analyze data from thousands of aging substation facilities and detect equipment that should be prioritized for maintenance, ensuring both investment optimization and stable operation

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%

Next-generation nationwide load dispatching system

Hitachi Energy, Social Infrastructure Systems BU, GlobalLogic*1

Wide-area operation of power networks Supply and demand planning and control

Standardize a nationwide load dispatching system in Japan Contribute to the improved resilience of power networks nationwide^{*2}, reduction of social costs and encouragement of the use of renewable energy

X

Grid energy storage system for Matsuyama storage plant

Hitachi Energy, Hitachi Power Solutions, Social Infrastructure Systems BU

Storage batteries X

Distributed power source monitoring and control

Build power storage plant to connect to power grids Contribute to mainstreaming of renewable energy power source while stabilizing grids, through efficient control of storage batteries adapted to power supply and demand

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)
 CAGR (2024-2027)

 180B\$
 +15%

UK Intercity Fleet: Smart Maintenance

Hitachi Rail, Hitachi Digital Services

Train cars

Condition monitoring, data analysis

Condition-based maintenance, utilizing real-time data from over 325 train carriages, has yielded more than 1 billion readings

Successfully reduced overhaul requirements by 50% and increased train availability In the process of deploying this digital solution in approx. 2,000 Hitachi's fleet across the entire UK

*1 Calculated by Hitachi based on publicly available information *2 Source: Hitachi



Expand public EVs to promote local decarbonization

DX market size in Mobility* (2027) CAGR (2024-2027) 180B\$ +15%



ZeroCarbon Solutions

X

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)



 Posten Bring (Norway)

 Deliver services for 160 EV cars and trucks

 Aim to convert all vans and 80% of trucks

 to be fossil-free by 2030

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) CAGR (2024-2027) +15%

Transform after-sales business of industrial equipment

Hitachi Global Air Power, GlobalLogic, Hitachi Digital Services

Air compressor

× CX des

CX design, equipment monitoring, data analysis

Real-time monitoring of compressor operating conditions and manage the product life cycles Transform the after-sales business process by proposing parts replacement and new products according to the user's usage status

The photograph is an Image

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





* Source: Hitachi

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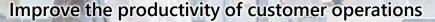
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Seize new opportunities for growth utilizing generative AI

🔆 LUMADA



- 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

Provide reliable data management and platform

- as-a-Service, generative AI platform and hybrid cloud storage
- Green, resilient data center

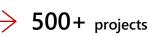
Hitachi's initiatives

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



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

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



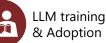
• Number of engineers specializing in Al

 \rightarrow 9,700+ engineers

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



Al platform & Data engineering







 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

CEO of Digital Engineering Business Unit President & CEO of GlobalLogic **Nitesh Banga**



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



Operations

streamlined by 50% or

more*2

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

Increase productivity in system development

Examples of projects



Productivity improvement by **30%** or more*1

New system development and system maintenance

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 Improve efficiency of customers' operations

Examples of projects



Automation of response to inquiry

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

Sophistication of sales and marketing

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









ΝΙSSΛΥ



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)

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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 AI extracts things and operational information. This facilitates communication about work processes between the multiple people involved and saves workers from backtracking



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



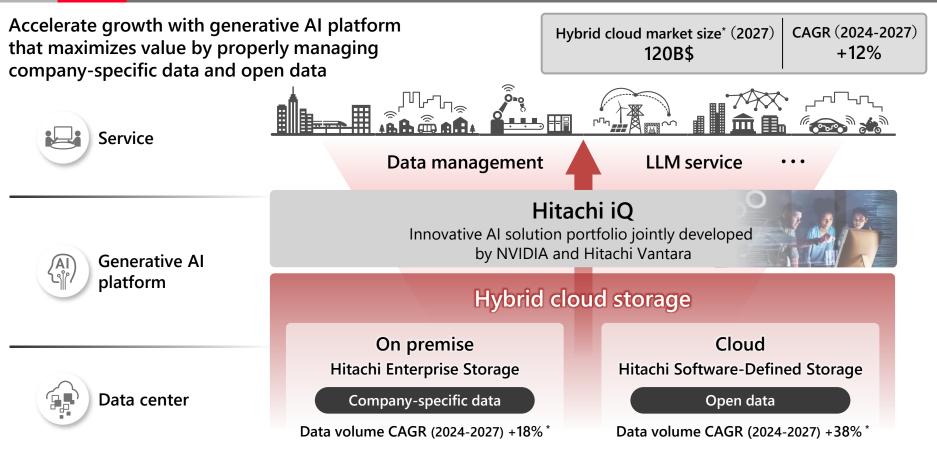


*1 Calculated by Hitachi based on publicly available information for Japan

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

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

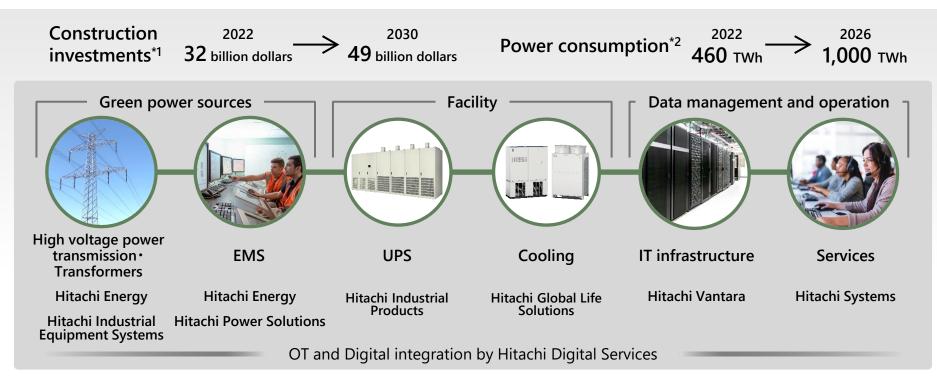
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* Source: Hitachi LLM: Large Language Models



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



*1 McKinsey: Why invest in the data center economy *2 IEA Electricity2024 EMS : Energy Management System UPS : Uninterruptible Power Supply © Hitachi, Ltd. 2024. All rights reserved. 21



Build a generative AI ecosystem leveraging the strengths of global partners



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 AI



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 Al
- 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 AI lifecycle service

Optimize the process from the data center to the operation of generative AI 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

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 cumulative 0.6 trillion yen		
		2023	2024
	2022		

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

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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," "believe," "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 rends. 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, seak 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;
- fluctuations 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.