

We promote the well-being of the world
through a spirit of exploration
and diverse technologies.



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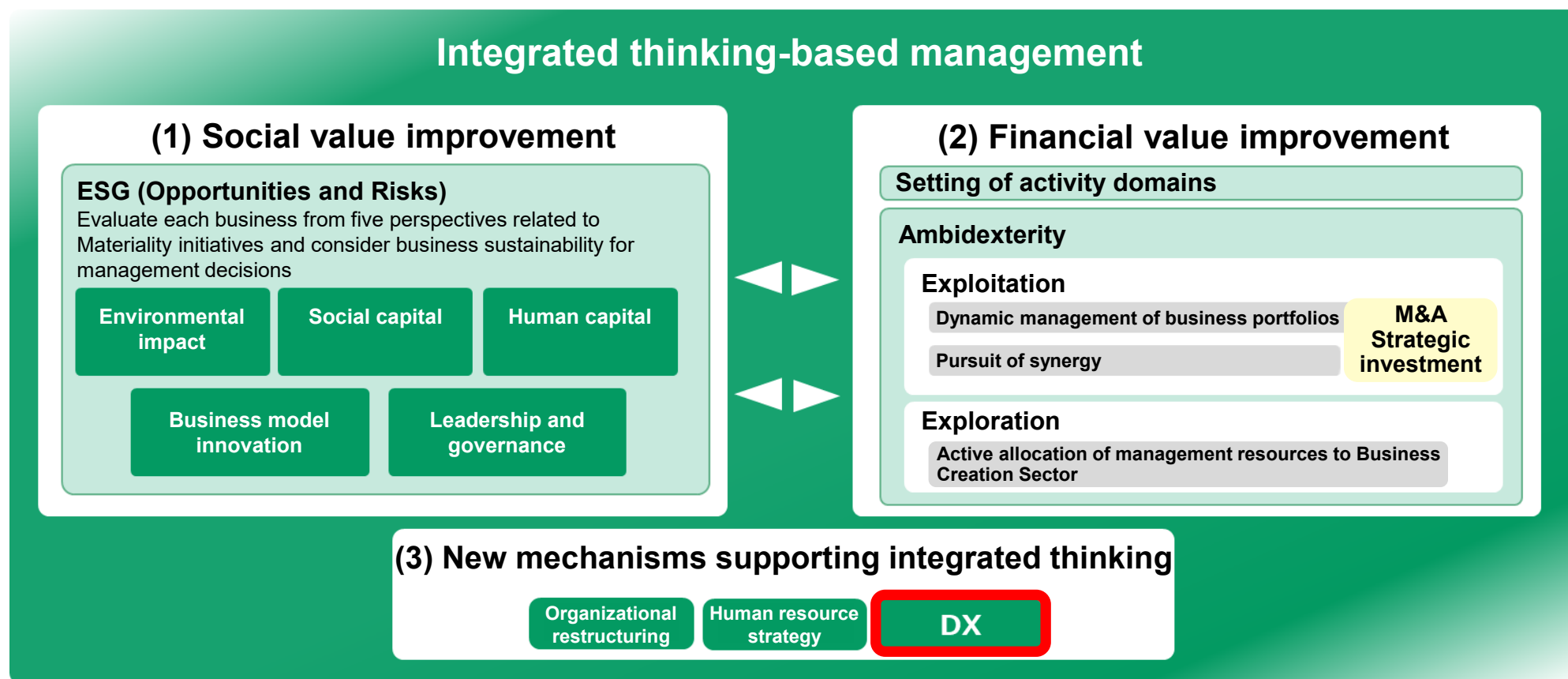


DX Initiatives in the 22-24 MTP



New Mechanism for Practicing Integrated Thinking-Based Management: DX

The Group has positioned DX as a new mechanism supporting integrated thinking in the practice of integrated thinking-based management, which was fully introduced in the 2022-2024 Medium Term Business Plan (22-24 MTP).



(3) New mechanisms supporting integrated thinking

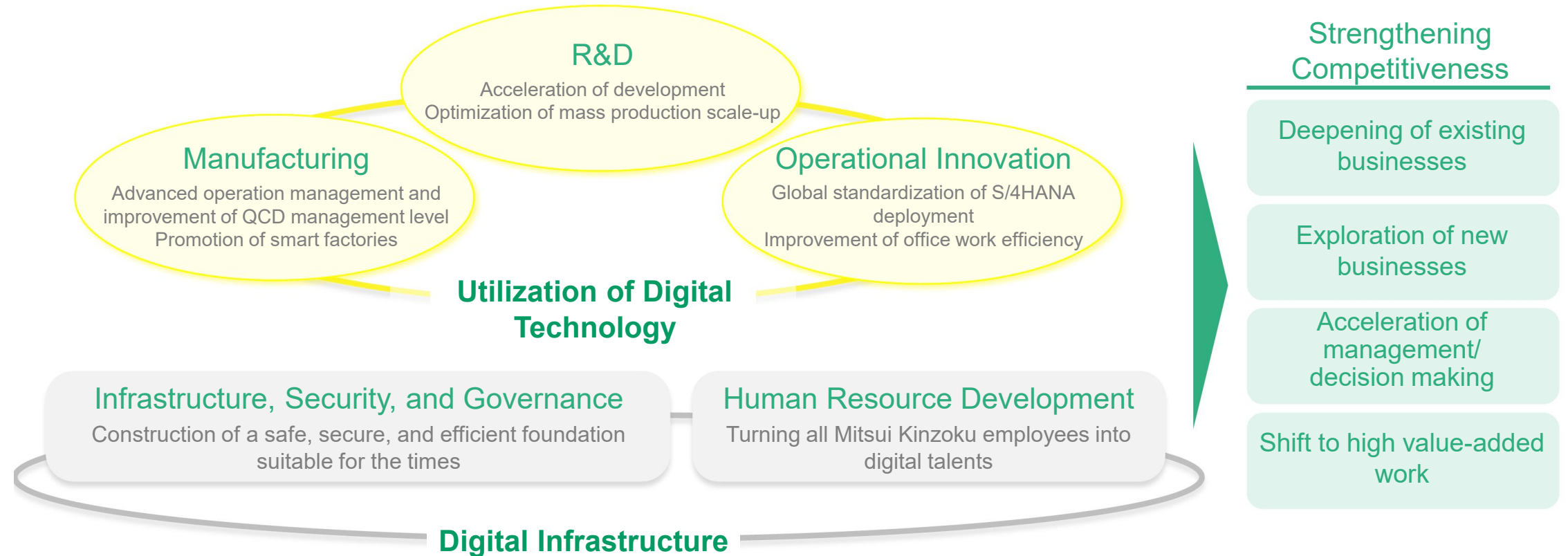
Organizational restructuring

Human resource strategy

DX

New Initiatives Supporting Integrated Thinking [DX Initiatives]

To accelerate R&D, establish smart factories, and improve operational efficiency thoroughly, we will promote DX and strengthen competitiveness.



In addition to enhancing system safety, we will accelerate the management of various indicators, the speed of decision-making, and the flow of information.

New Initiatives Supporting Integrated Thinking [DX Initiatives]

During the 22-24 MTP period, we made ICT investments of 15.3 billion yen and increased ICT personnel by 115.

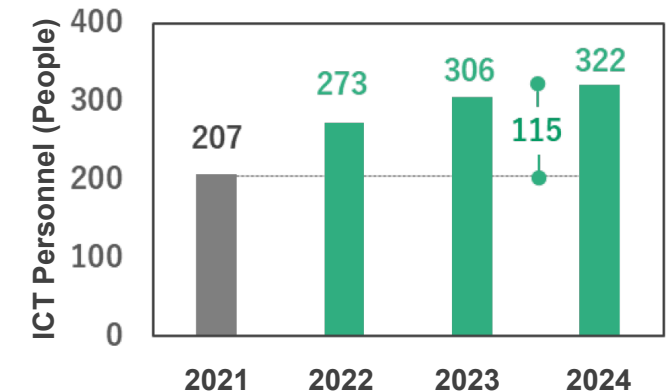
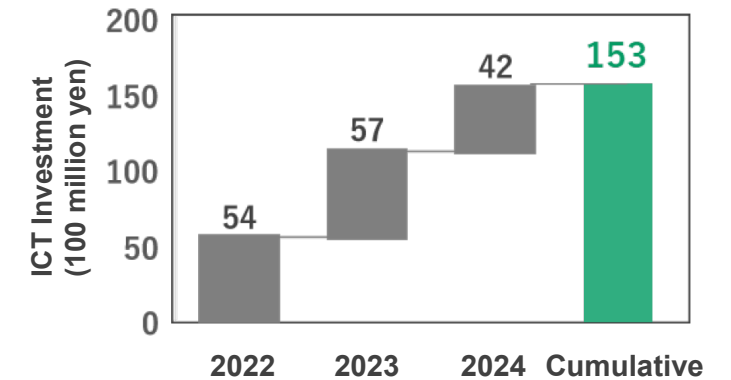
DX Measures in 22-24 MTP

		Vision for 2030	22-24 MTP Measures	Expected Effects
Utilization of digital technology	R&D	Acquire the industry's fastest development speed capabilities	<ul style="list-style-type: none"> Model completion in one-third of the R&D duration Construction of data/operational infrastructure 	<ul style="list-style-type: none"> Acceleration of new material launch
	Manufacturing	Industry top-level manufacturing	<ul style="list-style-type: none"> Digitalization of model smelters for stable operation 	<ul style="list-style-type: none"> Operational stabilization
	Operational Innovation	Mastery and full utilization	<ul style="list-style-type: none"> Visualization of operational innovation themes Expansion of S/4HANA usage 	<ul style="list-style-type: none"> Establishment and utilization of management information infrastructure Strengthening of individual business operations and promotion of digitalization Growth of employees and shift to high value-added work
Digital infrastructure	Infrastructure Security Governance	Safe and secure use of ICT/DX	<ul style="list-style-type: none"> Construction of network suitable for cloud utilization Strengthening global security Expansion of system governance 	<ul style="list-style-type: none"> Reduction of risks of cyber-attacks and information leakage
	Human Resource Development	Turning all Mitsui Kinzoku employees into digital talents	<ul style="list-style-type: none"> Education via digital content 	<ul style="list-style-type: none"> Acceleration of automation Reduction of security risks Internal promotion to ICT personnel



Specific measures for each business area

ICT Investment and Personnel in 22-24 MTP



Results of DX Initiatives

We strengthened the digital infrastructure and promoted three DX measures—R&D, Manufacturing, and Operational Innovation—thereby enhancing competitiveness.

	Main Items	Vision for 2030	Key Measures in 22-24 MTP	Specific Results
Utilization of digital technology	R&D	Acquire the industry's fastest development speed capabilities	<ul style="list-style-type: none"> • Model completion in one-third of the R&D duration • Construction of data/operational infrastructure 	<ul style="list-style-type: none"> • Data infrastructure construction completed • Model construction implemented
	Manufacturing	Industry top-level manufacturing	<ul style="list-style-type: none"> • Digitalization of model smelters for stable operation 	<ul style="list-style-type: none"> • Digitalization for sharing and utilizing equipment management and operation data implemented at Hachinohe Smelting
	Operational Innovation	Mastery and full utilization	<ul style="list-style-type: none"> • Visualization of operational innovation themes • Expansion of S/4HANA usage 	<ul style="list-style-type: none"> • Construction of visualization infrastructure and creation of reports completed • Expansion of S/4HANA usage implemented
Digital infrastructure	Infrastructure, Security, and Governance	Safe and secure use of ICT/DX	<ul style="list-style-type: none"> • Construction of network suitable for cloud utilization • Strengthening global security • Expansion of system governance 	<ul style="list-style-type: none"> • Introduction of new network in progress • Security risk assessment completed • Expansion of system governance implemented
	Human Resource Development	Turn all Mitsui Kinzoku employees into digital talents	<ul style="list-style-type: none"> • Education via digital content 	<ul style="list-style-type: none"> • Sequential increase in the number of participants
Engineered Materials Sector Specific Measures		Exert strengths through digital innovation, creating various solutions that meet potential needs (nice-to-haves)	<ul style="list-style-type: none"> • Centralized management of sales information via Salesforce • Visualization of cost margins • Tablet utilization in operational areas 	<ul style="list-style-type: none"> • Immediate grasp of process flow through centralized management of operational information. Partial realization of the optimization of mixing conditions by AI • Contribution to sales strategies and pricing decisions

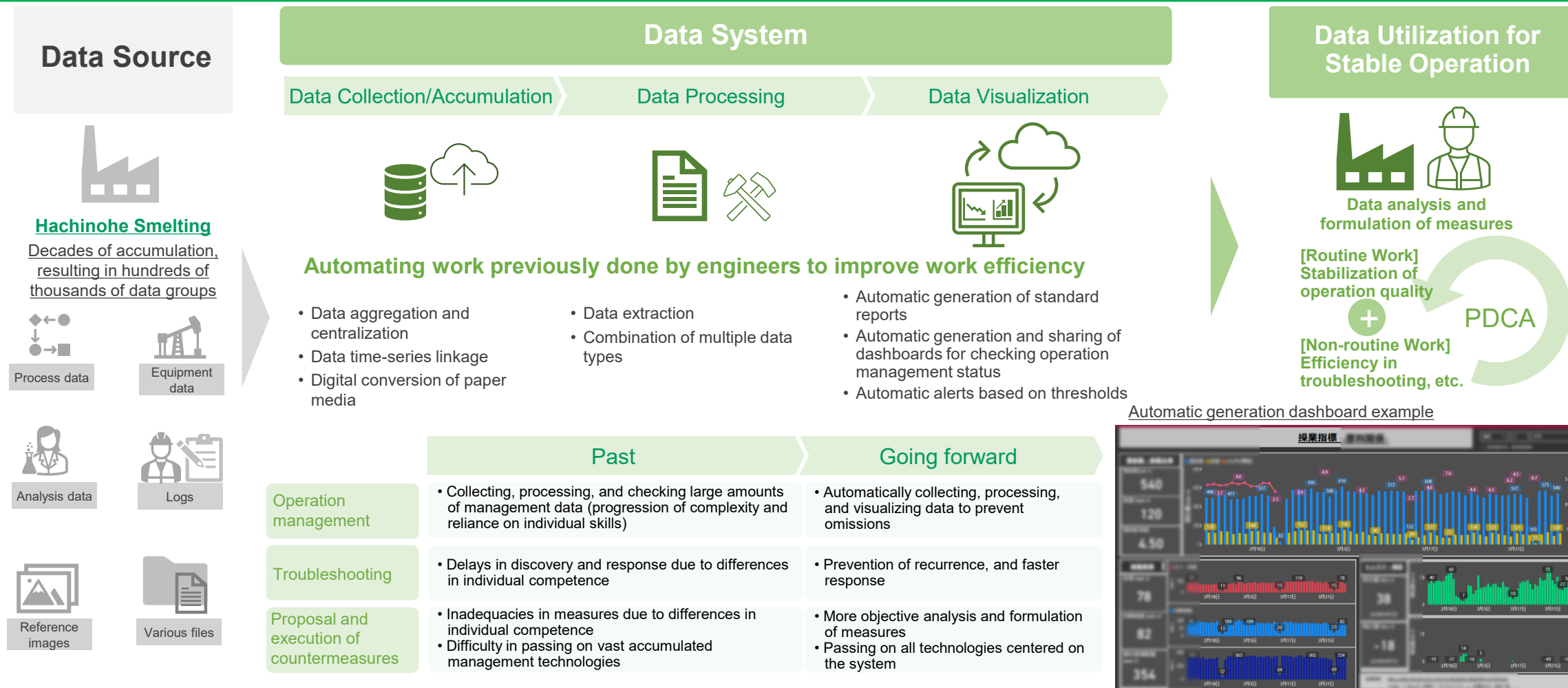
P8

P9,P10



Manufacturing DX: Model Construction for Stable Operation at Smelters

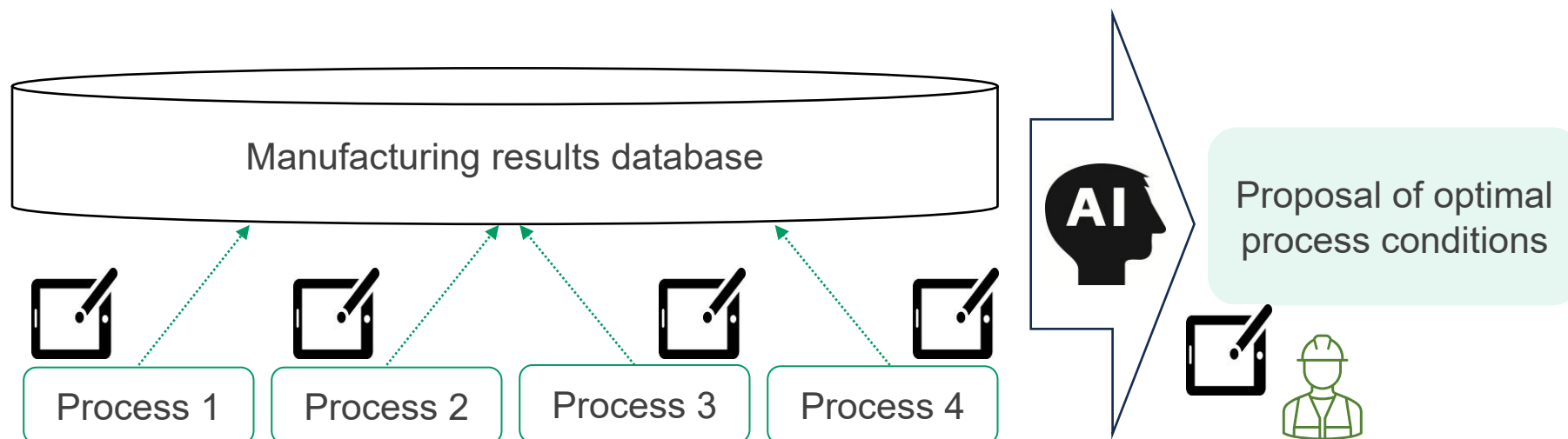
As part of company-wide DX initiatives, we implemented digitalization for sharing and utilizing equipment management and operation data using Hachinohe Smelting as a model, and improved operational efficiency. We plan to further utilize this for stable operation and deploy it to other locations and companies.





Engineered Materials Sector Initiative Case Study (1): Operation Management

Through centralized management in a database, the process flow can be ascertained immediately, and process conditions are optimized using AI technology.



	Past	Going forward
Input	• Handwritten paper forms	• Input via tablet
Troubleshooting	• Checking files saved on paper	• Confirmation via data search
Process conditions	• Setting conditions based on intuition, knack, and experience	• Proposal of optimal conditions by AI

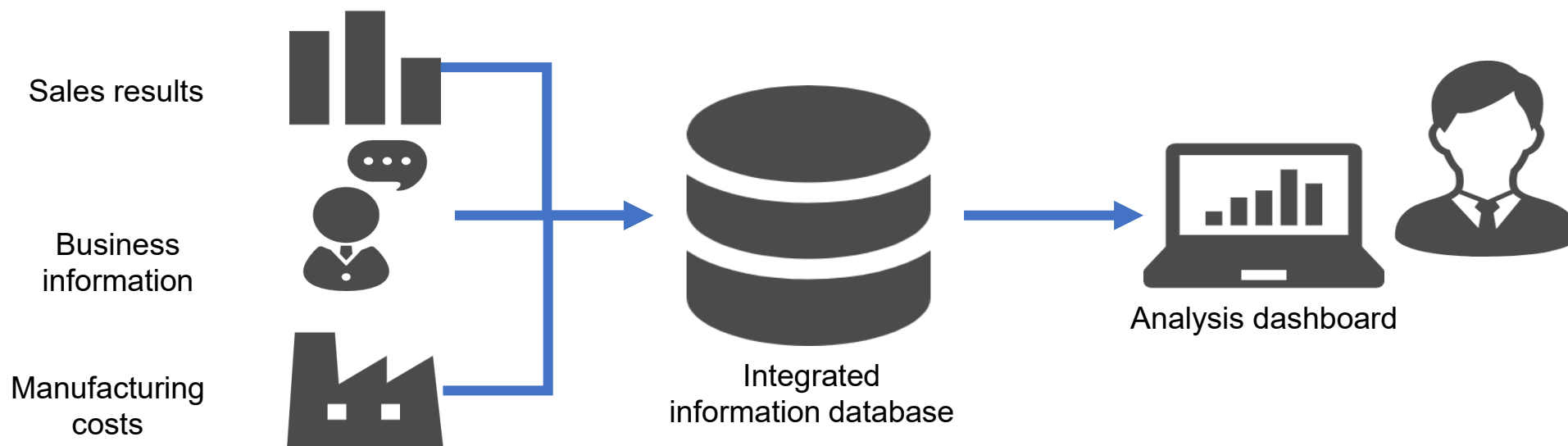
Tablet screen example





Engineered Materials Sector Initiative Case Study (2): Sales Management

By storing sales information, business information, and manufacturing cost information in an integrated information database, data is visualized in a state that can be analyzed. This facilitates analysis and improvement actions, such as checking pricing information and comparing actual sales to the budget.



Business
information

Budget vs. actual
management

Pricing

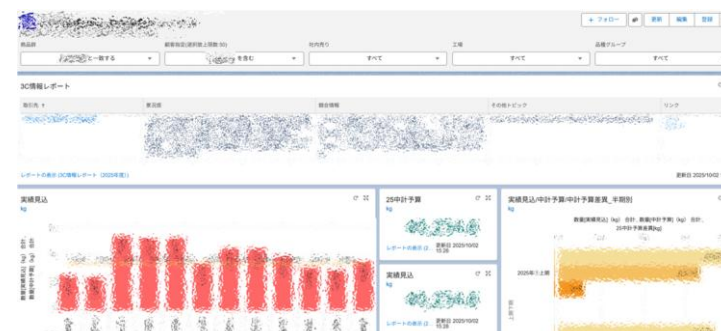
Past

- Business information was not centrally managed, making it difficult to find the desired business information
- Manually aggregating information from each system
- Information was dependent on specific individuals
- Struggled to collect past price information

Going forward

- Information can be searched by keywords due to centralized management
- Automatic linkage and aggregation of information from each system
- Pricing utilizing past history is possible

Dashboard example





DX Initiatives in the 25-27 MTP



Concept of the 25-27 MTP (Key Focus Areas): Promotion of DX

To ensure the realization of the Purpose and the Group's Vision, we are refining current measures from the 22-24 MTP and implementing additional measures. We have positioned the promotion of DX as one of the key focus areas.

■ Key Focus Areas of the 25-27 MTP

Strengthening of the Management Foundation

- Strengthening portfolio management
 - Introduction of ROIC targets and WACC per business for business valuation, and reflection of social value
 - Execution of bold measures*
 - Expansion of mechanisms for creating new businesses and company-wide synergies
- Strengthening the foundation for information dissemination inside and outside the company and branding
- Strengthening governance and promoting company-wide strategies by becoming a Company with an Audit and Supervisory Committee



Enhancement of Human Capital

- Setting of action guidelines based on the Purpose and Vision
- Human resource development leading to improved business value and greater on-site capabilities, and acceleration of job satisfaction reforms
- Human resource development contributing to the enhancement of company-wide corporate value

Promotion of DX

- Operational efficiency improvement and shift to value-creating work
- Optimal allocation of ICT personnel and development of DX personnel

* Bold measures: Measures to shift towards non-linear growth rather than gradual growth

DX Basic Strategy Roadmap

Based on the digital infrastructure development that progressed uniformly across the company in the 22-24 MTP, we aim to achieve efficiency and acceleration by sharing the **utilization of digital technology**, which has been promoted in each division/sector/company, across the entire company and making it a continuous activity.

22-24 MTP (2022–2024) Digital Infrastructure Construction Phase

Building DX foundation

- Construction of utilization models
 - Promotion of DX in sectors/divisions capable of leading
- Solidifying the foundation of infrastructure, security, and governance
- Resolving ICT talent shortage

25-27 MTP (2025–2027) Digital Promotion Phase

Promoting DX across the company

- Company-wide use of digital technology
 - Establishment of a system for company-wide collaboration, leading to acceleration of value realization in each sector
 - Diffusion of new common tools (generative AI, etc.)
- Company-wide deployment of digital infrastructure
 - Expansion and management of common infrastructure
 - Optimal allocation of ICT personnel and development of DX personnel

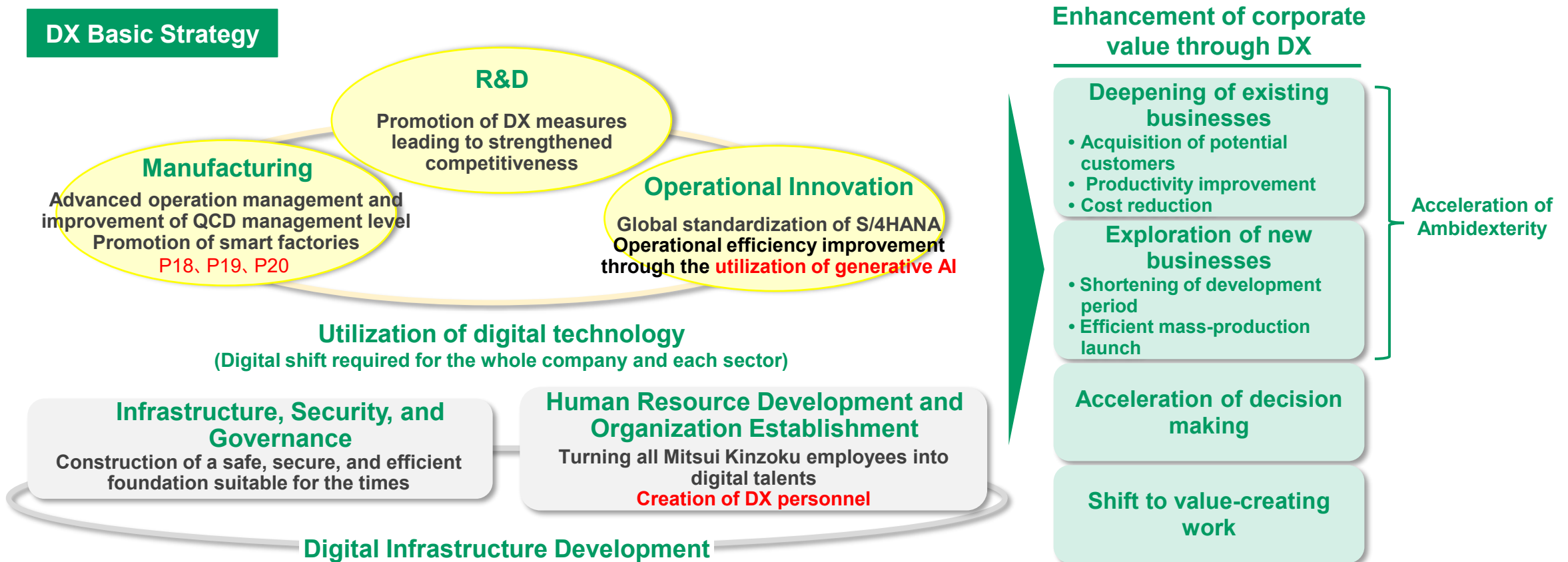
28-30 MTP (2028–2030) Digital Creation Phase

Creating new value with DX

- Continuously creating new products and business models
- Launching competitive mass-production factories
- Improving and streamlining work by having all employees utilize digital technology and data

Basic Policy of the 25-27 MTP

We have added the utilization of generative AI and the creation of DX Personnel, which support strategy execution, to the 25-27 MTP as additional strategies from the 22-24 MTP.



DX Company-wide Goals and KPIs

We have set the hiring of human resources (**DX personnel**) who drive operational innovation, including the **expansion of AI utilization** through environmental improvement and the development of education systems, as a company-wide initiative, and we will promote activities in each sector.

Elements Constituting KGI in the ICT (DX) Area

Mechanisms supporting corporate value improvement	Utilization of digital technology	Data utilization (Digital shift required for the whole company and each sector)
	Digital infrastructure development	Infrastructure, security, and governance
		Operational structure

Company-wide KPIs (FY2027 Targets)

Sector Goals	
• Engineered Materials	Optimization of Sales/Marketing/Performance Management: Retention Rate KPI P18
• Metals	Stable Operation/Efficiency: Number of Horizontally Deployed Sites KPI P19
• Business Creation	Acceleration of Business Creation Activities: Competitiveness* KPI P20
Generative AI utilization	Monthly utilization rate of total target users : 50% or more P16 Reduced working hours : 10% efficiency improvement (16 hours/person/month)
Operational structure	Creation of DX Personnel : 30 people or more P17

* Competitiveness: Performance against targets and development period



Generative AI Utilization

Utilize generative AI throughout the company to strengthen corporate competitiveness through operational efficiency and the maximization of human capital value.

Improvement of corporate value and creation of new business models

Sophisticated utilization

Operational efficiency ⇒ Conversion/Expansion of human capabilities
⇒ Conversion of human resources to value-creating work

KPI (25-27 MTP)

Monthly utilization rate of total target users: 50% or more
Reduced working hours: 10% efficiency improvement

Generative AI Solutions

Standard tools



- High security design protecting input information
- Generation of high-precision answers utilizing internal data
- Rapid introduction of latest technologies

Purpose-specific tools

- [Examples]
- Meeting minutes
 - Legal AI
 - Manual creation
 - CRM/Marketing
 - Code generation

Introduction of tools meeting our security standards

Internal Promotion Structure

AI Evangelists

- Role to promote generative AI in each organization

- ① Launch utilization community
- ② Horizontally deploy good examples internally
- ③ Hold information exchange meetings
- ④ Share the latest information

FY2025 Trial Operation
FY2026 Company-wide Deployment

Creation of cases in dedicated organization

- Establishment of an organization in the Head Office ICT Department to solve on-site issues with generative AI



Utilization guidelines

- Enactment of generative AI usage rules that consider the balance between offense and defense

Utilization Education

Online learning

- Introduction of generative AI learning tools
- Implementation of training by proficiency level



Mentor system

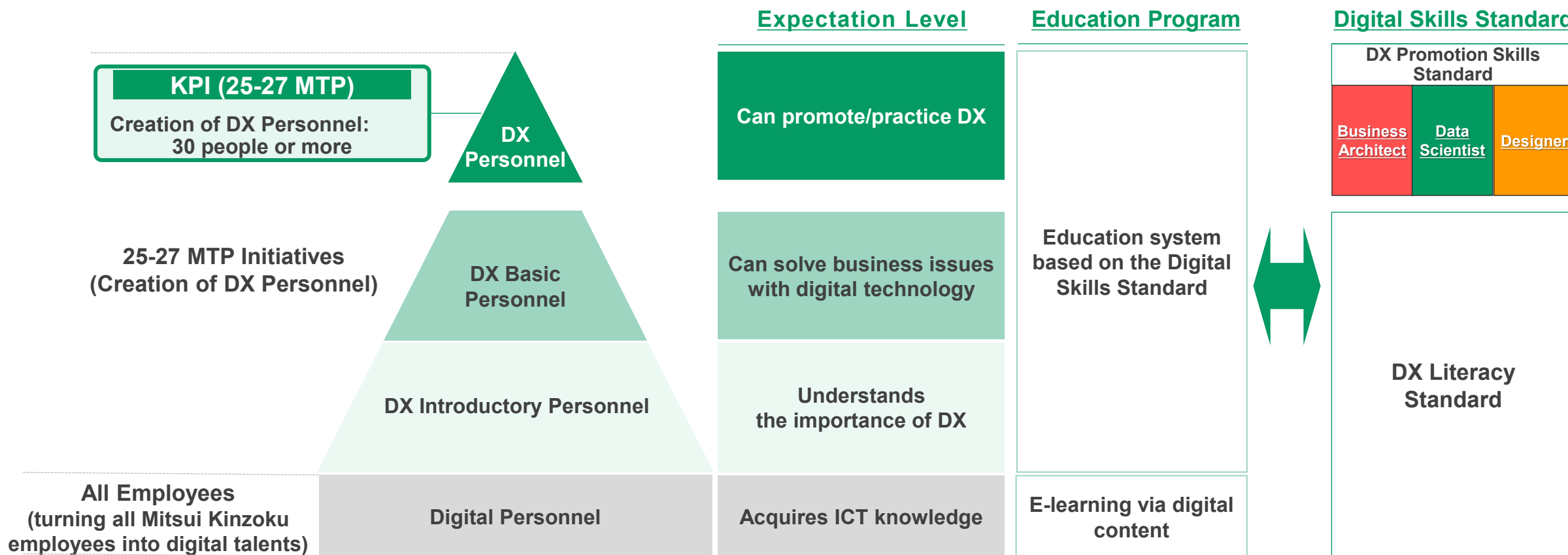
- Introduction of a mentor system for officers and executives





Creation of DX Personnel

Previously, we conducted ICT education under the slogan "Turning all Mitsui Kinzoku employees into digital talents" to equip all employees with digital capabilities. In the 25-27 MTP, we will focus on cultivating DX personnel (designed based on the Digital Skills Standard) who drive operational innovation through digitalization.

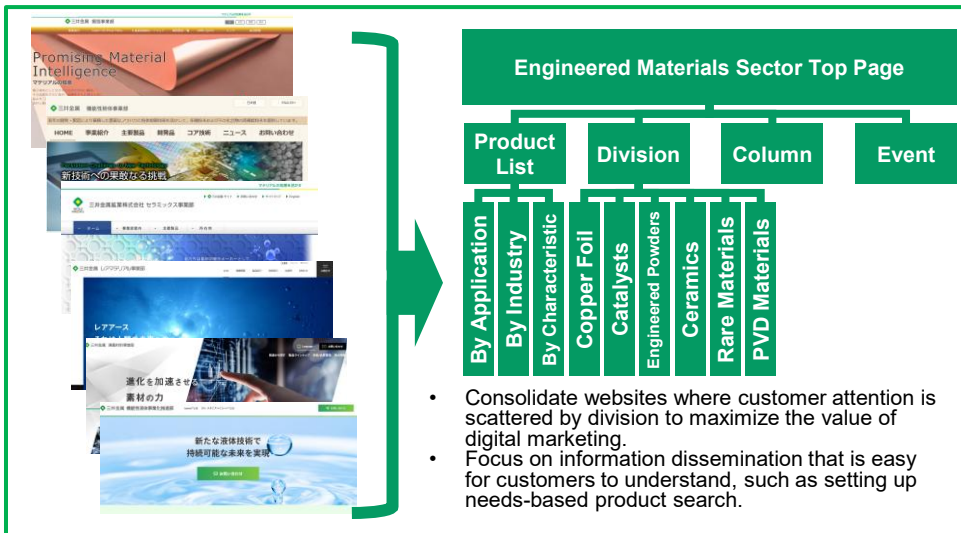


Engineered Materials Sector

Promoting the optimization of marketing/performance management and the improvement of the retention rate (KPI)

Marketing

We integrate each division's website into the sector website to expand inquiries and improve brand value.

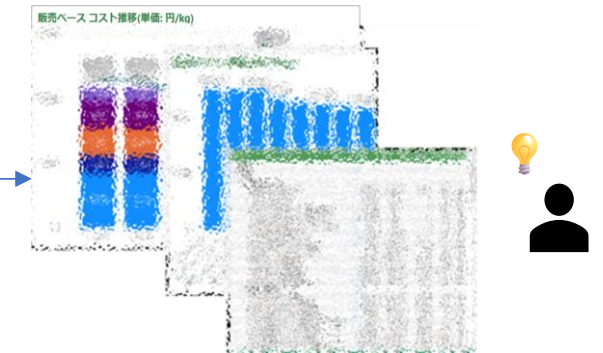


Optimization of Performance Management

We actively support actions that lead to profit maximization based on performance information.

Sales Results

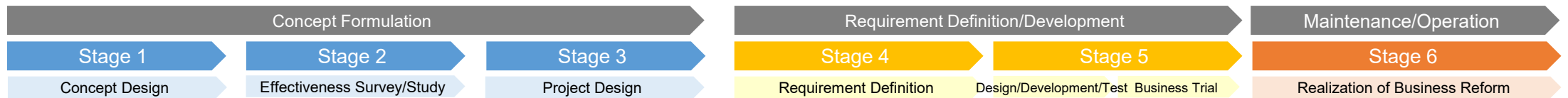
Manufacturing Results



- Calculate profit/loss, cost, and unit selling price per product.
- Analyze/visualize trends, etc., and provide information useful for cost reduction and sales improvement.

Retention Rate Improvement Measures

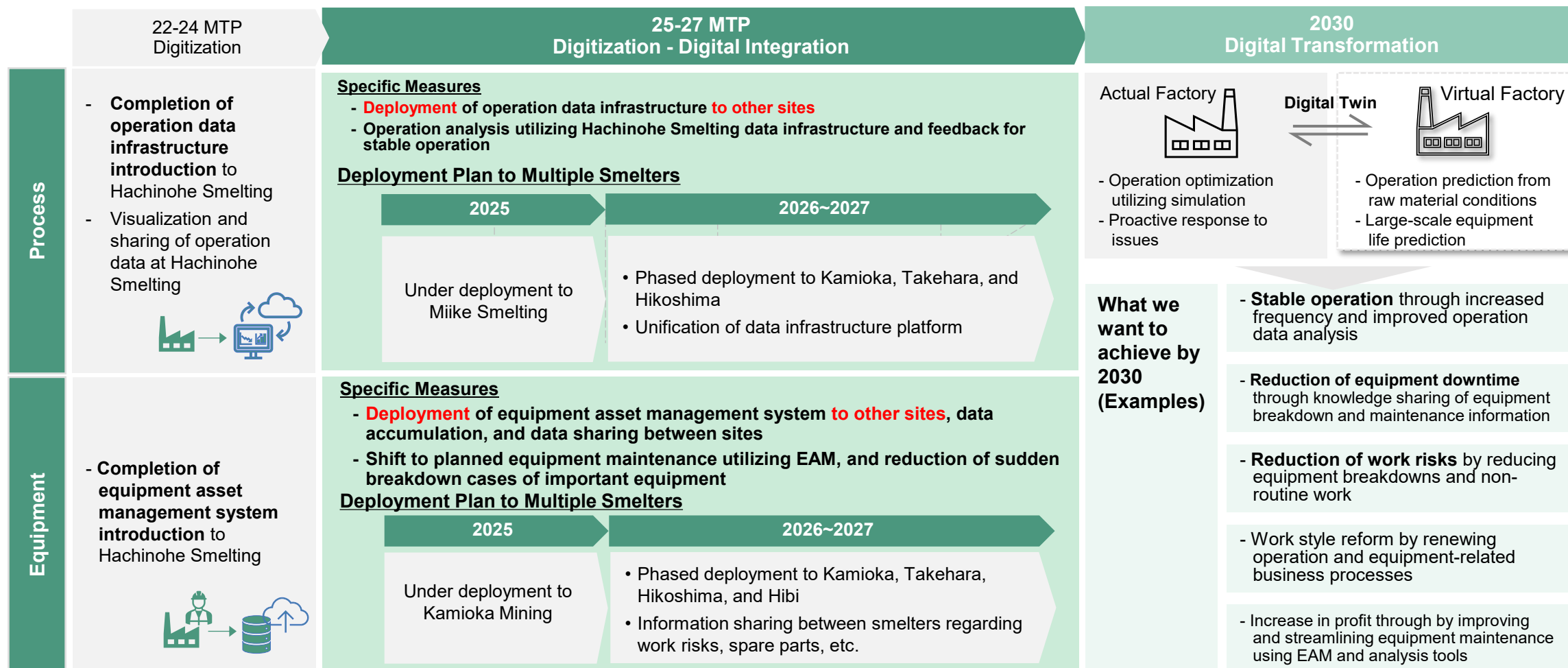
We dig deep into issues of activities up to the 22-24 MTP and reflect them in the stage gate. Improving project quality is expected to improve the retention rate.



Add measures corresponding to issues to the existing criteria of each stage to strengthen management.

Metals Sector

In the 25-27 MTP, we will proceed to deploy the data infrastructure and equipment asset management system introduced at Hachinohe to other sites. At the same time, we aim to realize effects early by developing and introducing more advanced trend monitoring functions and calculation processing functions that connect accumulated operation and equipment management data to stable operation.



Business Creation Sector

We have begun full-scale activities to integrate DX into the value creation process with the aim of strengthening R&D competitiveness.

DX Policy

KPI

Competitiveness*
(twice our company's ratio)

* Competitiveness: Performance against targets and development period

Interim Evaluation Indicators for Acquiring Competitiveness

By increasing data, improving accuracy, and repeating trials, the speed of achieving targets will accelerate.



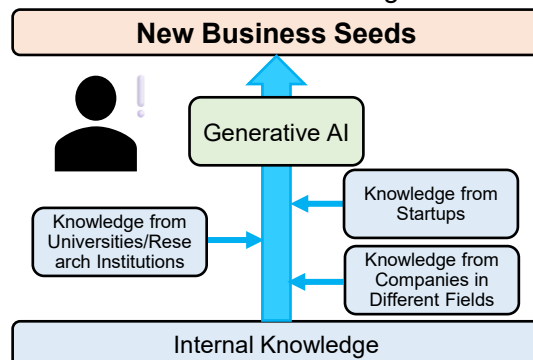
1. Amount of data obtained in the same period
(Automation, high throughput, sensing, etc.)
2. Number of analysis tools incorporated to increase success probability
(Generative AI, machine learning, MI models, etc.)

Specific Initiatives

Implementing DX Technology into the Value Creation Process

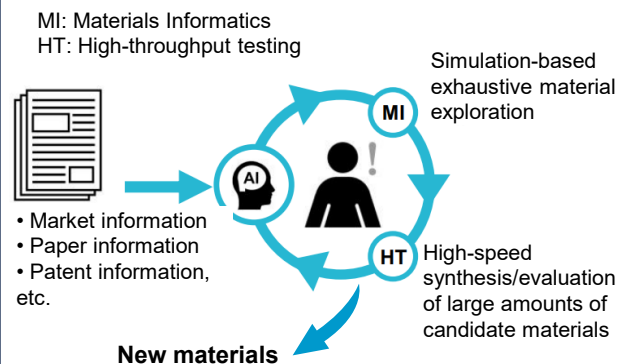
Exploration Phase

Exploration of business seeds by fusing internal and external knowledge



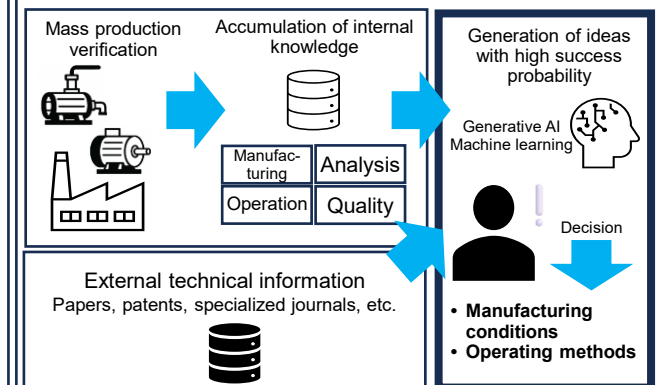
R&D Phase

Shortening of development period



Commercialization Promotion Phase

Efficient mass-production launch





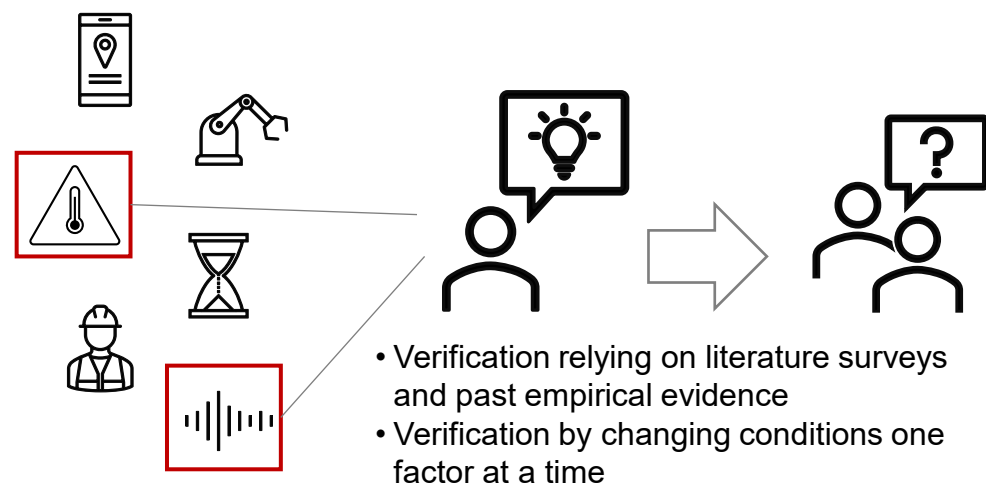
Smart Factory Initiative Case Study: SE* Quality Improvement

To achieve top quality and differentiate from competitors, we effectively narrow down control factors using statistics/machine learning.

* Solid Electrolyte: Solid electrolyte for all-solid-state batteries "A-SOLiD®"

[Before Improvement] Experience-driven with partial verification

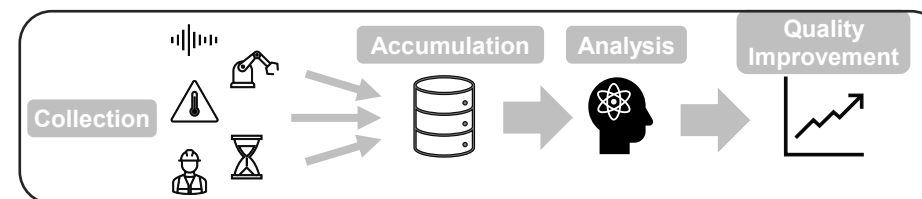
Verification of control factors required significant effort



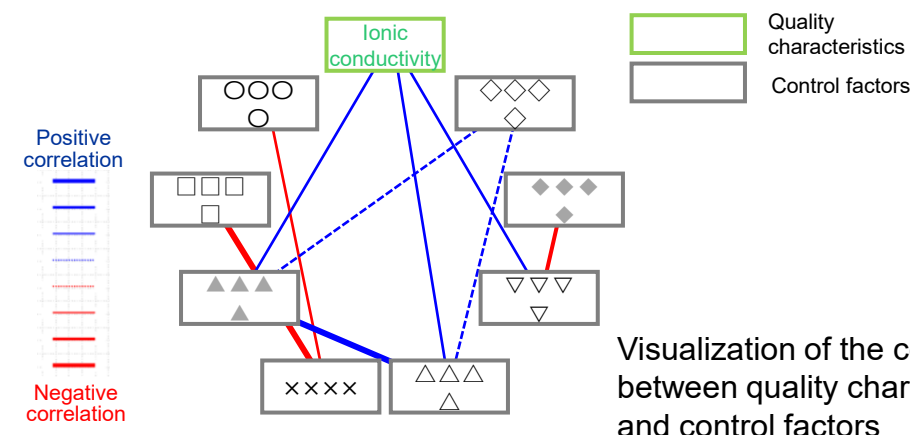
Target quality characteristics: Ionic conductivity, etc.
Number of data factors: Approx. 1,000 factors or more

[After Improvement] Data-driven with comprehensive verification

Conducted analysis of accumulated data using statistics/machine learning



Solid electrolyte
A-SOLiD®



Results

Successfully narrowed down factor candidates efficiently from approx. 1,000 factors or more to approx. 15 factors using statistics/machine learning



Activities to Obtain DX Stock Certification

Through activities to obtain DX Stock certification, we promote internal mindset transformation. Through top management leadership and company-wide collaboration, we will achieve business improvement, new value creation, and sustainable growth through digital means.

DX Stock Primary Evaluation Items		Our Current Status	Points of Focus in 25-27 MTP
Promotion of DX Strategy	1. Formulation of management vision and business model	Set in the Medium Term Management Plan "25-27 MTP"	Linkage between management vision and DX strategy
	2. Formulation of DX strategy		Dissemination of value creation stories
	3-1. Organizational establishment	Establishment of the DX Promotion Department within the ICT Supervisory Department	Activities in company-wide cross-functional DX promotion organization
	3-2. Development and securing of digital personnel	Increase of 130 ICT personnel (since 2022) Preparing DX personnel development system	Establishment and company-wide deployment of DX personnel development system
	3-3. IT system and cyber security	Completion of standard environment setup and operational stabilization	Improvement of company-wide data integration and utilization
	4. Setting of performance indicators and review of DX strategy	Setting DX-related KPIs in each sector	Monitoring of KPI achievement
	5. Dialogue with stakeholders	Shared in the Integrated Report and 25-27 MTP Briefing Session	Periodic disclosure of DX results
	Deepening of existing business models using digital technology	DX practice results materializing in pioneering departments	Company-wide DX practice (Connecting to the digital creation phase of the 28-30 MTP)
	Business transformation and creation of new business models using digital technology		

Aim to acquire DX Stock in 2028

APPENDIX



DX Initiatives Supporting Integrated Thinking [25-27 MTP]

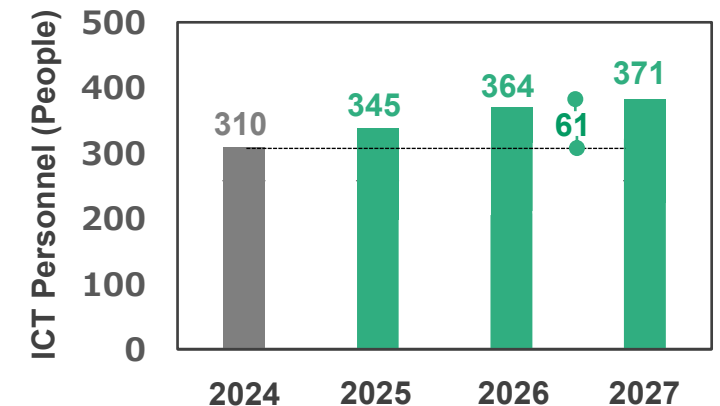
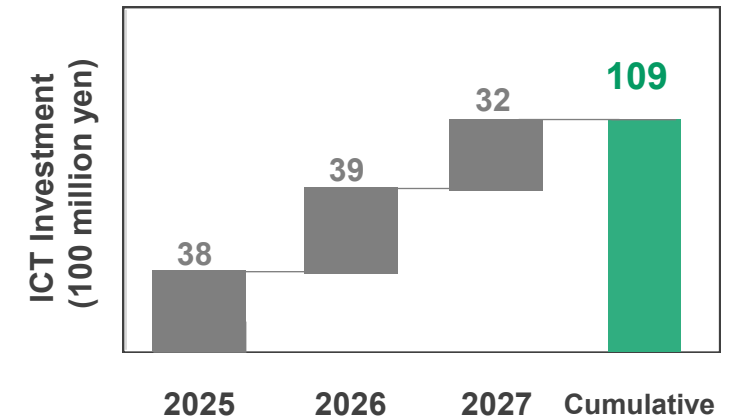
For the 25-27 MTP period, we plan to make ICT investments of 10.9 billion yen and increase 61 ICT personnel following the 22-24 MTP.

DX Measures in 25-27 MTP

		Vision for 2030	25-27 MTP Measures	Expected Effects
Utilization of digital technology	R&D	Acquire the industry's fastest development speed capabilities	<ul style="list-style-type: none"> • Exploration of business seeds • Shortening of development period • Efficient mass-production launch 	<ul style="list-style-type: none"> • Acceleration of new material launch
	Manufacturing	Industry top-level manufacturing	<ul style="list-style-type: none"> • Digital integration of model smelters for stable operation 	<ul style="list-style-type: none"> • Operational stabilization
	Operational Innovation	Mastery and full utilization	<ul style="list-style-type: none"> • Construction of a generative AI utilization environment • Expansion of S/4HANA usage • Introduction of stage gate 	<ul style="list-style-type: none"> • Establishment and utilization of management information infrastructure • Strengthening of individual business operations and promotion of digitalization • Growth of employees and shift to high value-added work
Digital infrastructure	Infrastructure, Security, and Governance	Safe and secure use of ICT/DX	<ul style="list-style-type: none"> • Construction of network suitable for cloud utilization • Strengthening global security • Expansion of system governance 	<ul style="list-style-type: none"> • Reduction of risks of cyber-attacks and information leakage
	Human Resource Development	Turning all Mitsui Kinzoku employees into digital talents Creation of DX personnel	<ul style="list-style-type: none"> • Education via digital content • Implementation of development plan based on the Digital Skills Standard 	<ul style="list-style-type: none"> • Acceleration of automation • Reduction of security risks • Internal promotion to ICT personnel

Specific measures for each business area

ICT Investment and Personnel in 25-27 MTP





mitsui kinzoku

