Progress Briefing on 2022-2024 New Medium Term Business Plan

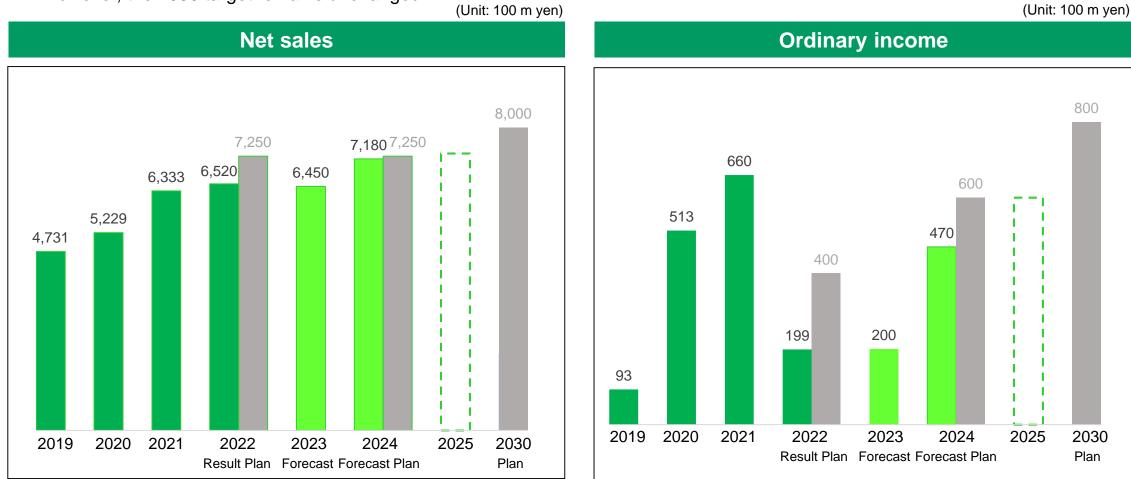
May 16, 2023 Mitsui Mining & Smelting Co., Ltd.





Financial Index - Net Sales and Ordinary Income

Both net sales and ordinary income are expected to fall short of the 2022-2024 Medium-Term Management Plan. Ordinary income is expected to reach the 2022-2024 Medium-Term Management Plan level one year behind. However, the 2030 target remains unchanged.



MITSUI KINZOKU

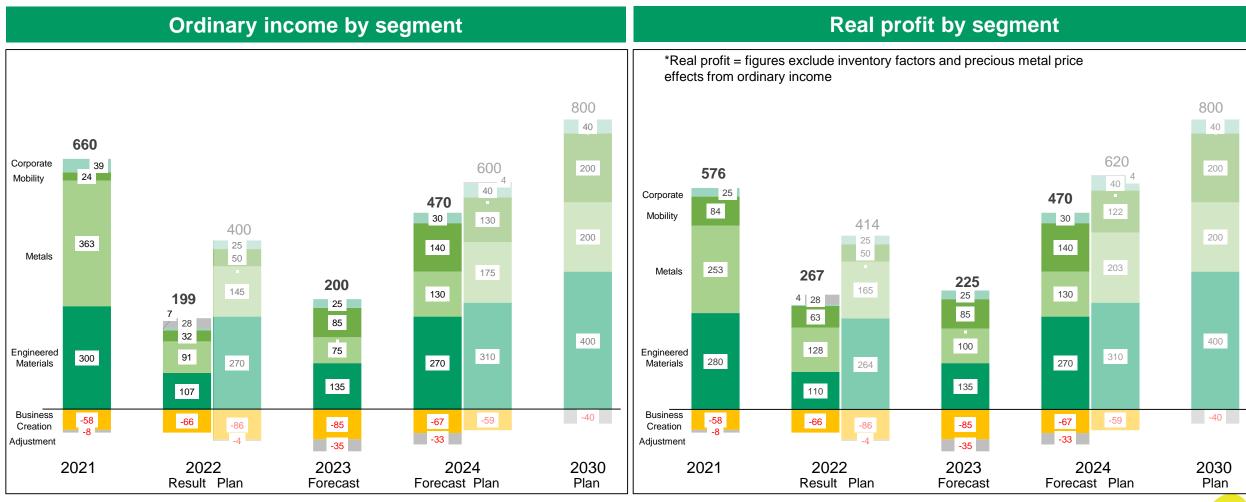
We promote the well-being of the world through a spirit of exploration and diverse technologies.



Financial Index - Ordinary Income and Real Profit by Segment

(Unit: 100 m yen)

Engineered Materials will continue to be the growth driver, and Metals and Mobility will also be factored into profit growth.



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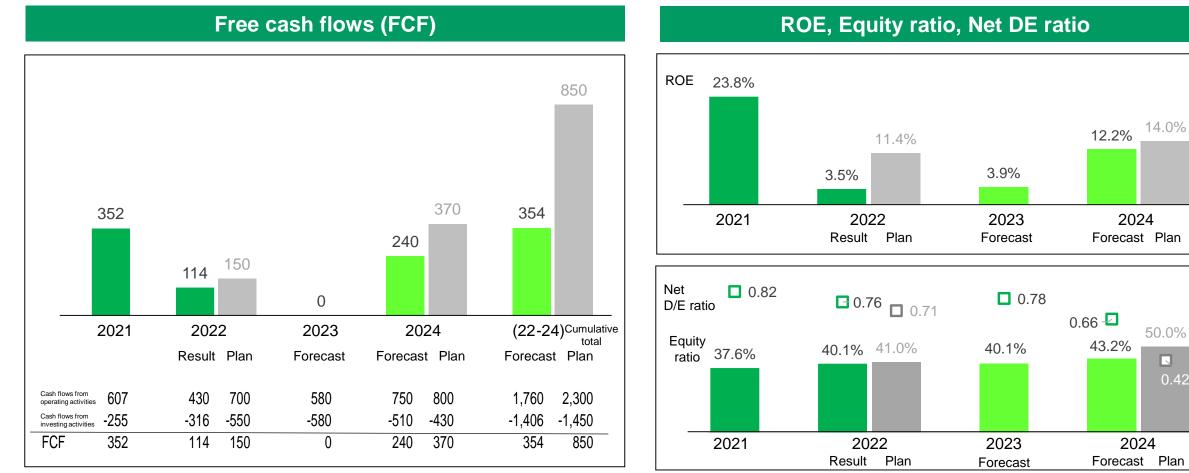
(Unit: 100 m yen)



Due to the deterioration of business results compared to the 2022-2024 Mid-Term Plan, the following indicators are expected to fall short of the target of FY2024.

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(Unit: 100 m yen)

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Shareholder Return

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The dividend policy will continue for the foreseeable future. Interim dividends will be paid from this fiscal year.

Dividend Policy for the 2022-2024

By placing importance on providing continuous and stable dividends, we will provide dividends at a rate of 3.0% DOE (consolidated dividend on equity)

Dividend per share forecast

	FY2022	FY2023	(Provisional a	amounts)
	F12022	Interim	Year-end	Annual
Dividend per share	140 yen	70 yen	70 yen	140 yen

We will revise shareholder return policy in line with progress in improving financial strength

Our Purpose and Vision

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



In order to adapt to the era of VUCA, we have established Purpose (Our social reason for existence), which forms the "axis of management decision-making" that is unaffected by any changes and is the "moral compass" for all employees in the 2022-2024 Medium Term Plan. We are implementing a range of initiatives to spread internally and externally, with a focus on Purpose.

Purpose



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

Our Group Vision for 2030

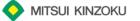
Building new businesses -and the futurewith our material intelligence.

- In-house newsletter, Purpose training, My Purpose
- Purpose special website launched (Purpose story movie posted) URL: https://www.mitsui-kinzoku.com/purpose/ (Japanese version)
- Transportation advertisements (JR Osaki Station, JR Ageo Station) (Saitama Prefecture), Fukuoka Airport)





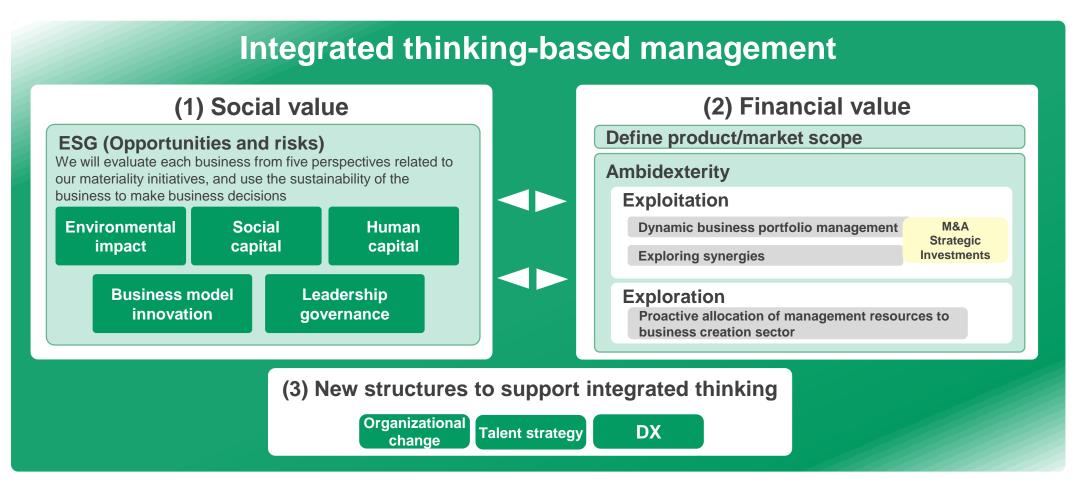
Published in front of the south exit ticket gates of JR Osaki Station



In-house newsletter espoir No. 75, special issue on Purpose Published in January 2023

Integrated Thinking-based Management

In order to achieve our vision based on Purpose, from April 2022, we conducted full-fledged introduction and promotion of Integrated Thinking Management, which aims to achieve both social and financial value.



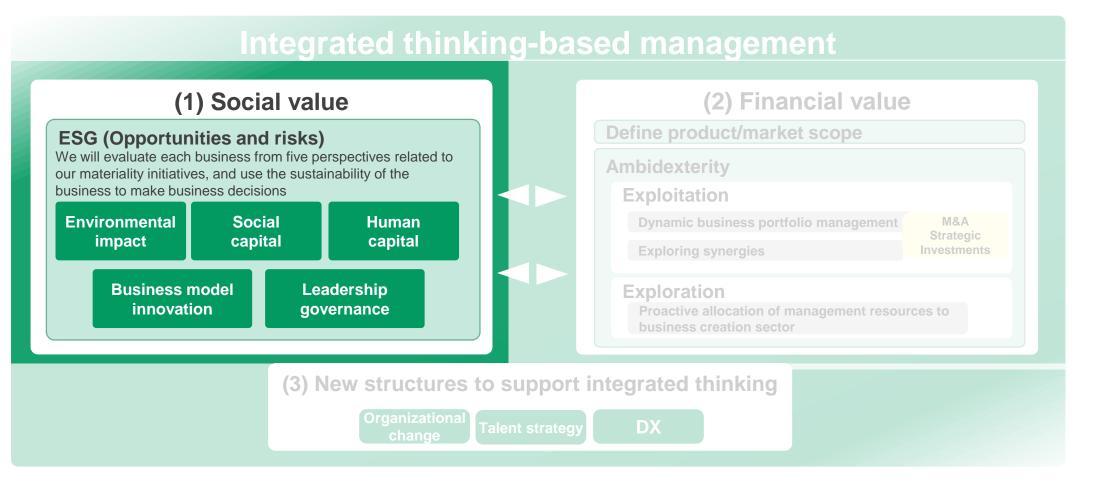


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through a spirit of exploration and diverse technologies.

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through a spirit of exploration

Social Value

Social value



Steady progress in initiatives centered on carbon neutrality as well as diversity and inclusion.

Main items	Main progress
Environment (Initiatives to achieve carbon neutrality)	 Participation in "GX League Basic Concept" by Ministry of Economy, Trade and Industry (News release on May 15, 2023) Decision to introduce an internal carbon pricing system (News release on March 23, 2023)
Human capital/Talent strategy	 Promotion of diversity and inclusion Full-fledged strategic company-wide allocation of human resources Transition to a job-based personnel system Certified as 2023 Health & Productivity Management Outstanding Organization (News release on March 10, 2023)
Governance	 Revitalization of the Board of Directors (Chairman of the Board of Directors to be an outside director) Plan to introduce ESG index-based restricted stock awards (Disclosed by TSE on April 14, 2023)

Trials underway to visualize future financial effects of non-financial activities

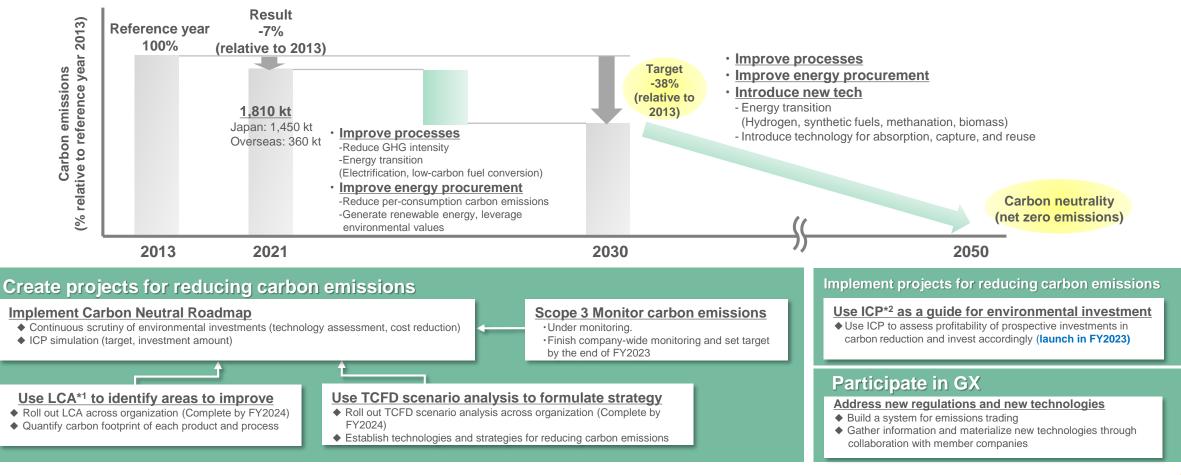


Medium- to Long-term Carbon Emission Reduction Targets and Initiatives

Social value (Environment) We promote the well-being of the world through a spirit of exploration and diverse technologies.



- Reduce carbon emissions by 38% globally by FY2030 (Scope 1, 2 compared to FY2013)
- Aim to achieve carbon neutrality (zero net emissions) by FY2050









ICP System Overview (News release on March 23, 2023)

In-house carbon price	 Scope 1: 30,000 yen/t-CO₂ Scope 2: 20,000 yen/t-CO₂ *Set a higher carbon price for Scope 1 than for Scope 2 in order to further promote measures for reducing Scope 1, which is more difficult to reduce 					
Target	Capital and development investments involving changes in carbon emissions					
Application method	In-house carbon price is applied to carbon emissions from eligible capital investment and development investment plans, and the cost conversion is used as a reference for investment decisions					
Date of introduction	April 1, 2023					

Going forward, we will further raise awareness within the company and promote low-carbon investment and climate change measures through the implementation of the "Company-Wide Roadmap to Carbon Neutrality by 2050," utilizing the ICP system.

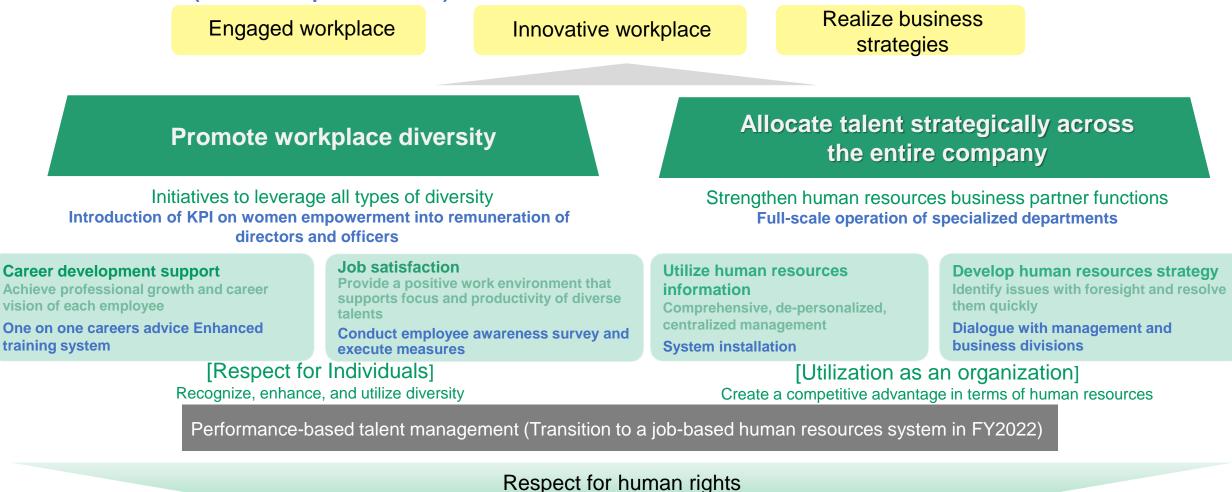


Human Capital/Talent Strategy

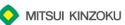
Social value (Human capital) We promote the well-being of the world through a spirit of exploration and diverse technologies.



We are implementing various measures for talent as an organization while at the same time respecting each individual (blue descriptions below).



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Health and Productivity Management Promotion System

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



- Disseminate the Health and productivity management declaration internally and externally
- Certified as a 2023 Health & Productivity Management Outstanding Organization (Large enterprise category) (News release on March 10, 2023)

Health and Productivity Management Declaration

Mitsui Kinzoku Group aims to continue to contribute to society with valuable products. In order to achieve this goal, it is necessary to create a work environment where all employees and their families can maintain both physical and mental health. We become even more vibrant company with higher productivity and performance through keeping our employees and their families healthy, which is a foundation for them to maximize their individuality and abilities. We declare that we will continuously contribute to society by promoting the creation of a more vibrant company through engaging in initiatives to maintain and promote the health of our employees and their families.



- Certified as a Health & Productivity Management Outstanding Organization continuously since 2019
- Based on our achievements in FY2022, we continuously received certification as a 2023 Health & Productivity Management Outstanding Organization (Large enterprise category)

ESG Index-based Restricted Stock Awards

Social value (Governance) We promote the well-being of the world through a spirit of exploration and diverse technologies.



The Compensation Committee decided to introduce ESG-related indicators for the compensation of Directors (excluding Outside Directors) to ensure that the Company continues to contribute to society and remain essential to it in the future.

- In addition to existing continuous service-type restricted stock awards, the Company has introduced a new ESG index-based restricted stock awards with the achievement of ESG indicators added as a requirement
- Specific ESG indicators are related to greenhouse gas reduction, promotion of job satisfaction and diversity, and compliance

Percentage of stock-based compensation based on consolidated ordinary income of 40 billion yen

Target	Mode of	Status of ESG indicator achievement and share of equity compensation (total of continuous service type and ESG index-based type) in total compensation				
	Compensation	Target achieved	Partially achieved	Missed all targets		
Directors	Stock-based compensation	15%	10% (Same level as FY2022) ~12.5%	7.5% (Continuous service only, total stock- based compensation will decrease compared to FY22)		

(Reference) Ratio of Directors' Compensation: If all ESG items are achieved

Consolidated Ordinary Income	0 yen or less	20 billion yen	40 billion yen	60 billion yen	80 billion yen or more
Base compensation	78%	65%	53%	48%	40%
Performance compensation	0%	17%	32%	38%	48%
Stock-based compensation	22%	18%	15%	14%	12%

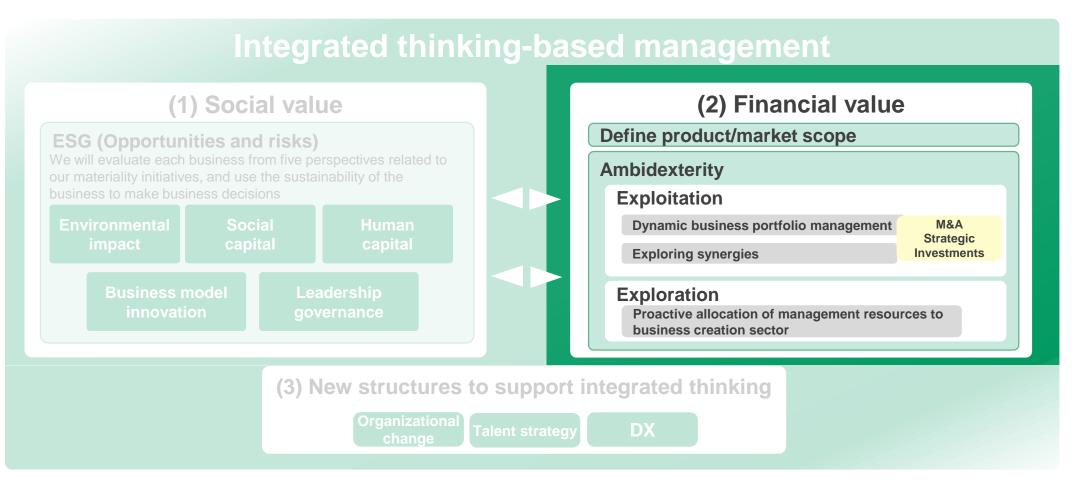
Since the Company's performance-based compensation fluctuates according to the Company's performance, the percentage fluctuates within the range shown on the left

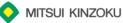
Integrated Thinking-based Management

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FY2022 Review of Matrix for Dynamic Portfolio Management

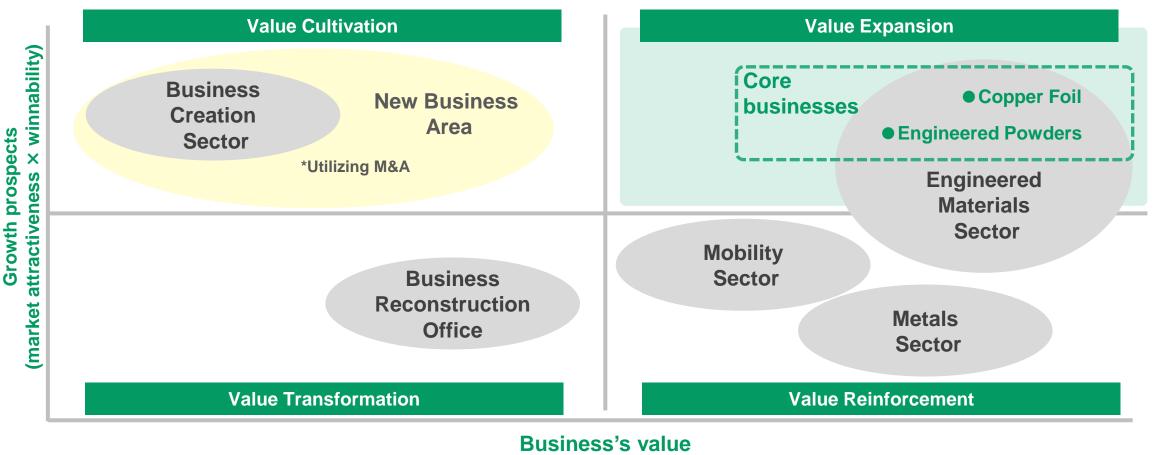
We promote the well-being of the world through a spirit of exploration and diverse technologies.



Financial value

No major changes to the business portfolio looking ahead to FY2030 based on the results of FY2022 review of matrix for dynamic portfolio management.

Value Expansion and Cultivation promote business expansion measures including M&A, while Value Transformation promotes searching for the best owners both internally and externally.



Capital Investment/Investment (M&A)

Capital investment progressed largely according to plan.

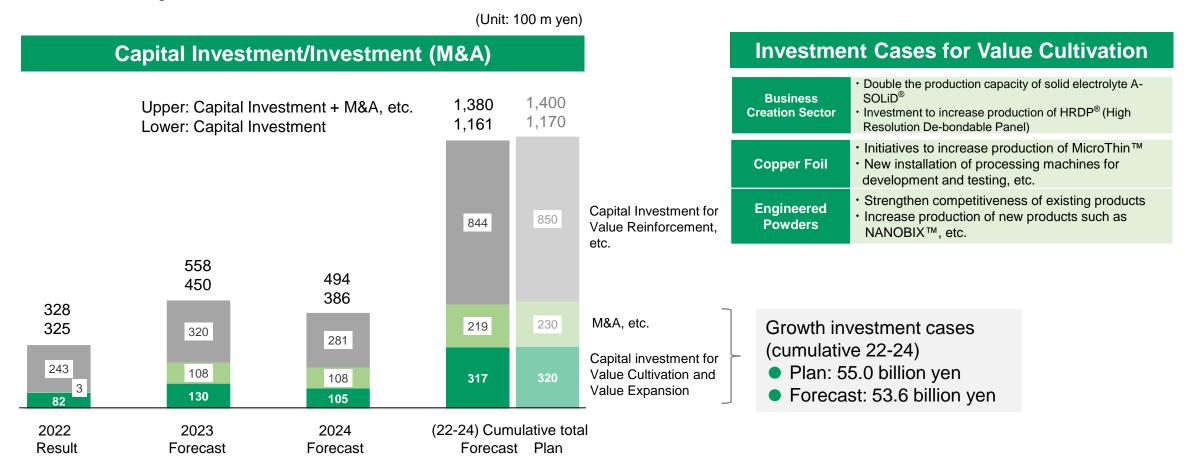
No change in M&A budget (20 billion yen over 3 years from 2022 to 2024) in 2022-2024 Mid-Term Plan as we are currently searching for the best owner.

Financial value

We promote the well-being of the world

through a spirit of exploration

and diverse technologies.





Business Creation Sector (1) - Summary

Financial value Value cultivation

Promoted R&D and commercialization preparations largely as planned such as improving provision of A-SOLiD® and HRDP® samples. In co-creation, made strategic investments in eSep and Helical Fusion (9th investment both in Japan and overseas).

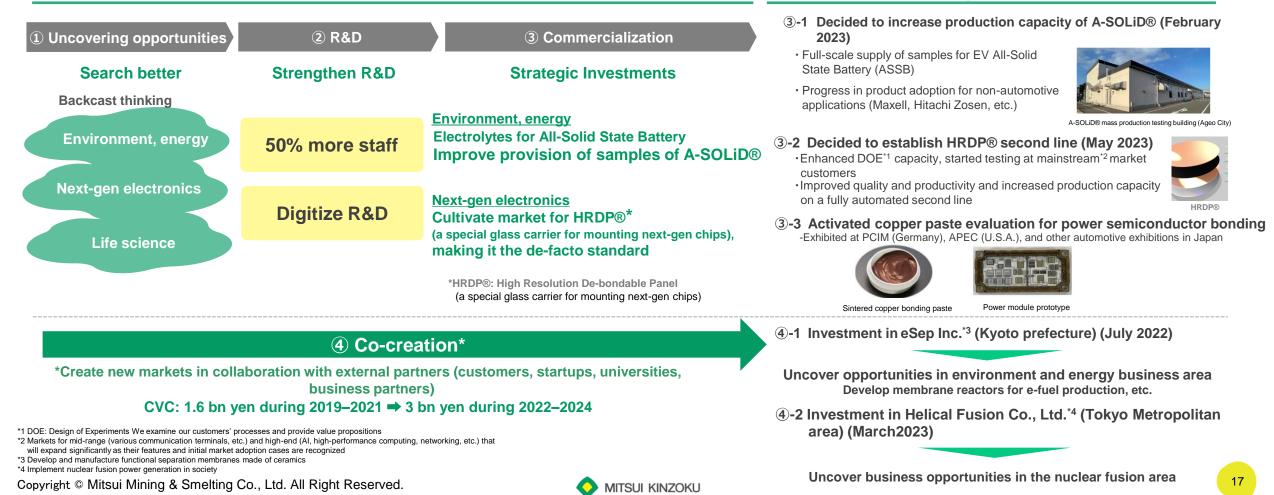
2022-2024 Mid-Term Plan Overview

Main Progress in FY2022

through a spirit of exploration

and diverse technologies.

We promote the well-being of the world



Business Creation Sector (2) – Progress of Next-generation Products ①

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



Solid electrolyte for All-Solid State Battery A-SOLiD[®].

Solid electrolyte A-SOLiD [®]	All-Solid State Battery (ASSB)	Features		Business stage	
		 Powdered sulfide solid electrolyte essential for All-Solid State Battery (ASSB) 		Electric Vehicle (EV) applications	R&D stage Each company accelerates development
		 Features high ionic conductivity due to argyrodite-type crystal structure and exhibits excellent battery properties 		Industrial applications	Early stage of market formation
	s the second				
Topics	Photo provided by LIBTEC				

- Maxell, Ltd. commercialized ceramic package type all solid-state battery using our product A-SOLiD[®]
- Increasing development of all solid-state batteries for EVs and increasing supply of samples to multiple companies in Japan and overseas
- Decided to double production capacity of the mass production testing facility (In the premises of Corporate R&D Center, Ageo city, Saitama prefecture)*

*News release on February 7, 2023 Decision to Enhance Production Capacity of the Mass Production Testing Facility for A-SOLiD®, a Solid Electrolyte for All-Solid-State Batteries



Business Creation Sector (3) – Progress of Next-generation Products 2

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



HRDP® - a special glass carrier for mounting next-gen chips -

Features

- Specialty carriers that enable high production efficiency with thinner and higher density, which are essential for next-generation semiconductor packages
 Contribute to customers' process yield
 - Contribute to customers' process yield maximization in next-generation semiconductor package manufacturing

Enhance functionality of DOE^{*1}

- Propose specific measures to address important customer issues
- Verify customer quality requirements





Topics

Product Structure

Molding equipment

Stripping equipment

- Responding to mass production for domestic composite chip module manufacturers and major overseas mounting manufacturers. Aim to gain further adoption from early market customers.
- Started selecting carrier materials that are essential for the introduction of organic interposers^{*3} that enable heterogeneous integrated packages.^{*2}
- DOE facility started operation in February 2023 to handle testing of customer base connected to the mainstream market.*4
- Decided to invest in the second production line in cooperation with GEOMATEC to prepare for quality and capacity for mass production to meet the customer's 2025 roadmap.
- *1 DOE: Design of Experiments We examine our customers' processes and provide value propositions
- *2 Next-generation packaging technology that provides design and manufacturing flexibility by densely mounting various chips of different technologies, functions, and sizes in a single package
- *3 One of the materials that electrically connects the package substrate to multiple chips, a material that plays an important role in packaging technology
- *4 Markets for mid-range (various communication terminals, etc.) and high-end (AI, high-performance computing, networking, etc.) that will expand significantly as their features and initial market adoption cases are recognized



Engineered Materials Segment – Progress of 2022-2024 Mid-Term Plan



Vision for 2030

In FY2030, net sales of 180 billion yen, real profit of 40 billion yen, at least 70% of newly launched products, and at least 50% sales ratio of environmentally friendly products

Progress of major strategies of 2022-2024 Mid-Term Plan

	Major strategies of 2022-2024 Mid-Term Plan	Evaluation	Progress
Copper Foil	 Fully prepared for the expansion of markets and applications for MicroThin[™] ① Enter new markets ② Maximize utilization of supply capacity 	~	 ① Increased adoption of HDI MSAP (Modified Semi Additive Process) ② Progress of transfer from PKG-MT to Malaysia
Engineered Powders	 Maximize profits from existing products (expand sales of copper powders for electrical materials and abrasives) Launch new products (copper powders for 3D printers, rare metal solutions, etc.) 		 Existing products did not reach target due to external factors New product launches are on track (✓)
PVD Materials	 Maintenance of good margins, overhaul of production to reduce costs and to cultivate future products 	~	 Price correction and cost reduction progressed as planned New product development is on track
Ceramics	 Expand sales of new products (e.g., next-gen cutters) 	✓	 Steady progress in sales expansion for next-gen cutters, 3D ceramic moldings, etc.

Copper Foil (1) - MicroThin[™] Sales Volume **Forecast and Production Capacity**

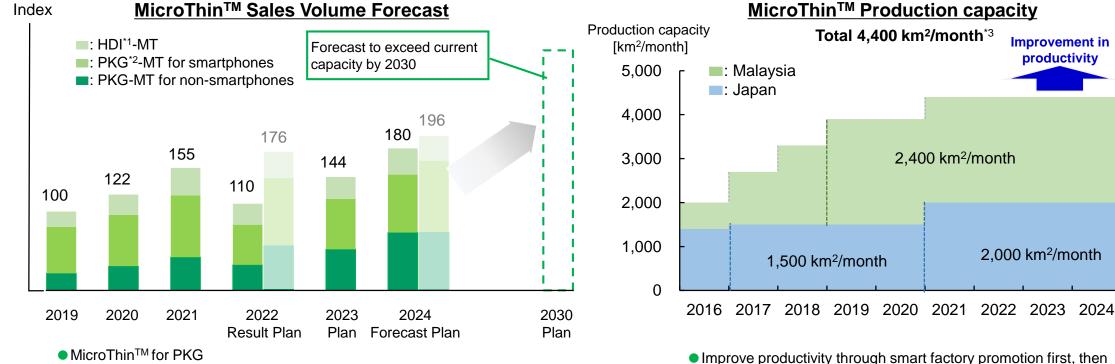
Financial value Value expansion

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Although the FY2024 sales volume of MicroThin[™] did not reach the 2022-2024 Mid-Term Plan, the growth story toward 2030 remains unchanged. The existing production capacity is sufficient to cater to present demand. Still, we will continuously work to reinforce production capacity in preparation for future growth in demand until 2030.

If growth is expected to exceed capacity, plan and execute an increase in production.



consider investment for increasing production

• Continue and promote transfer of production from PKG-MT to

*1: High Density Interconnected: High-density mounting wiring substrate

Malaysia (making maximal use of production facilities)

*2: Package: IC Package Substrate *3: Current production capacity

■ MicroThinTM for PKG

Forecast increase in PKG-MT's non-smartphone ratio due to business expansion in non-smartphone field by higher capacity/higher speed communication, etc.

MicroThin[™] for HDI

Promote adoption of MSAP by Chinese smartphone manufacturers (currently three companies)

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Copper Foil (2) – Reinforcement of the Product Development Structure

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



We are implementing measures such as speed up product development by installing a processing machine for development tests, reinforcement of marketing in Greater China, and opening a website to recruit co-creation partners to further leap forward and develop the copper foil business.

Speed up product development

New installation of a processing machine for development tests (press release on January 10, 2023)					
Installation location	Ageo Operation Center				
Expected completion	End of FY2023				
Features	 A machine designed to significantly increase the degree of freedom of tests to enable a wide variety of tests to be implemented ⇒ Enables development of high-end copper foil having additional functions Early delivery of copper foil in sizes that facilitate evaluation by customers themselves ⇒ Speeding up of evaluations by customers 				
Main products targeted for development	 Copper foil for semiconductor package PCBs Copper foil for high-frequency, high-speed PCBs Copper foil for module PCBs Copper foil for fields beyond circuit materials 				

Connect to development into new businesses that match society's needs with new environmentally friendly products and deepening of existing businesses

Reinforcement of marketing

Upgrading and expansion of marketing bases, and reinforcement of the marketing structure in Greater China						
China	a Installation of the South China (Shenzhen) base (completed) Reinforcement of personnel at the East China (Shanghai) base (in progress)					
Taiwan	Installation of a marketing base (decided)					
Conduct marketing campaigns centered on semiconductor-related manufacturers						
Launch of website to recruit co-creation partners to develop new applications for copper foil business (News release on April 3, 2023)						
 The keyword is "Beyond together, Copper Foil." We are looking for partners we can collaborate with to generate the market for new applications of copper foil. 						
[Copper Foil Division, "Beyond together, Copper Foil." Website] URL: https://em.mitsui-kinzoku.com/douhaku						

Engineered Powders (1) - Sales Performance and Forecast for Copper Powders

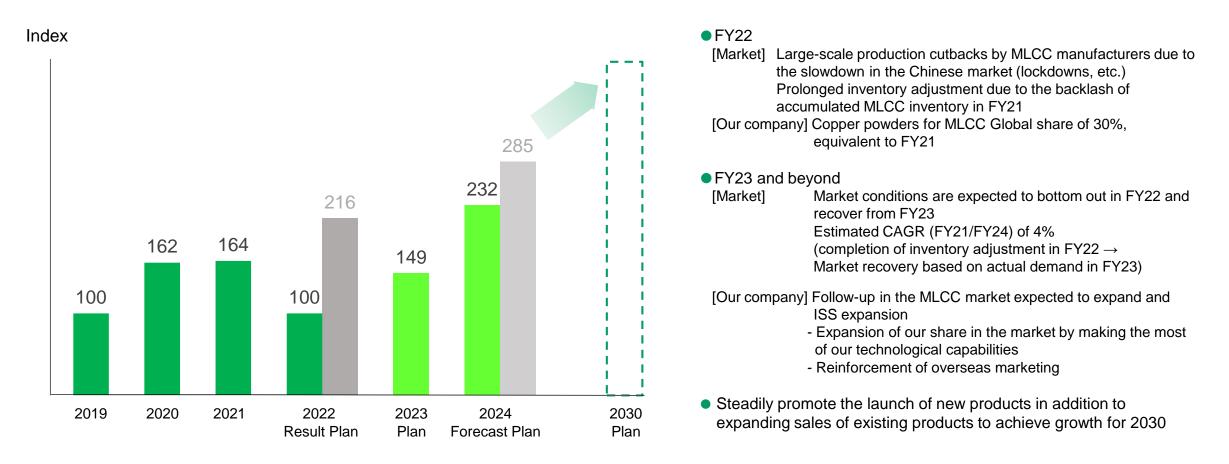
Financial value Value expansion

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Our copper powders business will expand on a long-term basis despite unachieved sales volume target set by 2022-2024 Mid-Term Plan due to the slowdown in the Chinese market (lockdowns, etc.).

We will steadily proceed to implement our major strategies, expand sales to major clients, and commercialize new products.



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



The development of Abrasive for SiC wafers (NANOBIX[™]) and Copper Chromium Alloy Powder for 3D Printer is progressing steadily with news releases for FY2022.





Metals Segment – Progress of 2022-2024 Mid-Term Plan



Vision for 2030

We are indispensable in efforts to build a sustainable society We have a recycling network underpinned by our distinctive characteristics, and we use it to provide new metals and minerals for renewable energy

Progress of major strategies of 2022-2024 Mid-Term Plan

	Major strategies of 2022-2024 Mid-Term Plan	Evaluation	Progress in FY2022	Initiatives in FY2023
Head Office	Build an advanced recycling network leveraging our unique and diverse smelting assets	✓	 Completed definition of digitalization requirements for smelter equipment management as well as operational data sharing and utilization 	 Development of facilities management system and start of operation data system
Onice	unique and uverse smelling assets		Fundamental study on the use of alternative fuels to reduce carbon emissions	Start demonstration tests for alternative fuel utilization
	Leverage existing assets to expand waste processing business	✓	 Increase in revenue from disposal of low- concentration PCBs and other wastes 	 Address waste disposal needs associated with the return of manufacturing to Japan
Zinc & lead	 Improve margins for increased smelting of metals produced from complex raw materials 	1	Conducted new trial at Hachinohe Mukai complex raw materials mine	Acquire new overseas contracts
	Increase inventory and smelting of new lead/zinc raw	✓	 Improve lead blast furnace utilization rate by shortening shutdown time, 	Standardize impurity management
	materials to make profit		Improve Sn extraction yield by handling impurities	Raw materials collection and marketing
Copper & precious	 Improve margins from increased smelting of profitable raw materials 	✓	In-house processing of some raw materials	 Improve yield through complementary functions among copper, lead, and zinc smelters
metals	 Reduce costs by improving operations and investing more judiciously 	✓	 Control fixed repair costs through more judicious capital investment 	 Reduce depreciation and repair costs through stable operations and investment optimization
Mineral resources	 Explore new mining opportunities in Huanzala and Pallca 	~	 Confirmed the prospect of securing profitability in the preliminary economic assessment 	 Begin feasibility study to verify reserves and mining costs in the actual mining sites



Metals Segment (1) - Industrial Waste and Recycled Raw Materials Processing

Financial value Value reinforcement

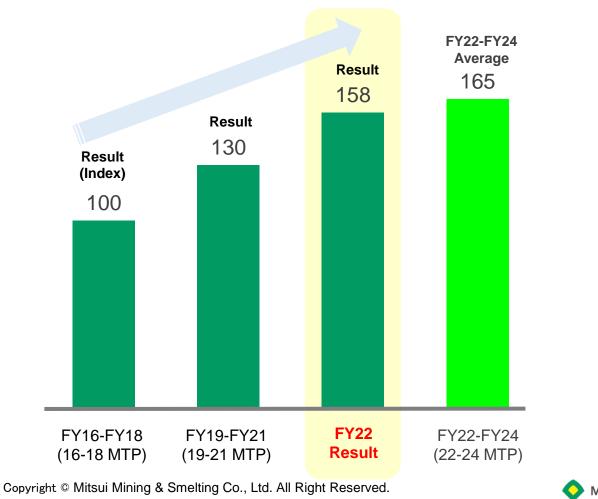
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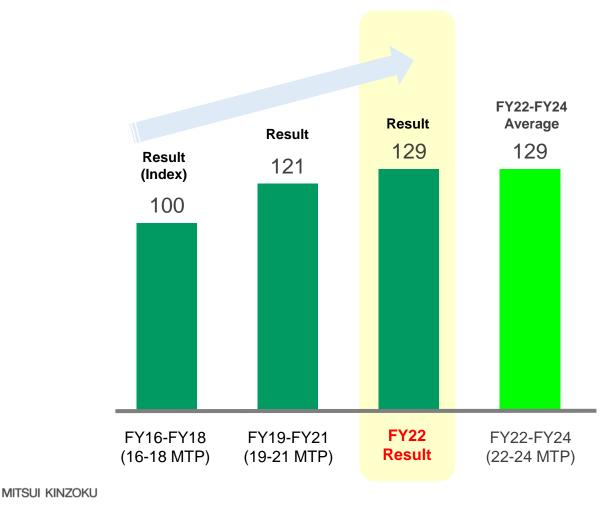


Achieved certain results in the processing business by utilizing existing assets. Steady in processing both zinc smelting industrial waste and lead-based recycled raw materials.

■ Increased smelting of zinc smelting industrial waste

Increased smelting of lead-based recycled raw materials





Metals Segment (2) - Initiatives to Achieve Carbon Neutrality

Financial value Value reinforcement

Metals business accounts for 83% of domestic emissions, 55% of which are from Scope 1. We will work on improving processes and introduction of new technology to realize CN by 2050.

			Measures for FY2030	Measures for FY2050
Improve processes			Improve heat exchange efficiency, including sulfuric acid heat exchangers	
Technology- established or	efficiency	Promote utilization of waste heat	Capture steam from waste heat and use in existing power generation facilities	
		Improve electricity intensity	 Demand response utilizing digital technology in electrolysis plants (Keidanren's Challenge Zero Innovation Case) Identify and realize energy conservation projects 	Continuous initiatives after FY2030
Introduce new tech	Shift energy sources	Utilize renewable energy	 Substitute coal with biomass fuels Conduct testing of actual equipment using biomass pulverized coal to replace 20% of coal New hydroelectric power plant 	
Measures under development through internal and external collaboration		Utilize low emission factor energy	Reduce coke consumption in ISP smelting by utilizing alternative fuels (Keidanren's Challenge Zero Innovation Case) Research on Zn re-oxidation effect by hydrogen at a development center	 Ferro coke utilization Introduce zinc reduction method with iron (Technical guidance and research by Tohoku University)
	Carbon absorption,	CCUS utilization, etc. Explore new		Develop carbon capture technology Planning Hachinohe field test with modules in the first half of next fiscal year
	capture, and reuse	technologies	Sowing Seeds for Future	 Participate in the Carbon Recycling Fund in Hiroshima Prefecture and the Hachinohe Area New Zero Emission Liaison Council

Energy conservation based on existing technologies and realization of energy transition

Search for breakthroughs by leveraging company-wide technological synergies

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and diverse technologies.



Mobility Segment – Progress of 2022-2024 Mid-Term Plan





Vision for 2030

Pioneer of a mobility society that continues to identify and create values to be chosen. New products sales ratio of more than 50%, ordinary income of 20 billion yen, and zero recall

Progress of major strategies of 2022-2024 Mid-Term Plan

	Major strategies of 2022-2024 Mid-Term Plan	Evaluation	Progress
Head Office	 Explore and realize business synergies (short/medium/long term) Develop and promote new business in response to changes in the business environment 	✓	 Developing best practices for improving processes, ICT, equipment, etc. Promoting sales expansion by utilizing sales channels and market information
Catalyst	 Maintain and strengthen technical development capabilities for differentiation Enhance manufacturing efficiency in production, development, asset compression, etc. Create a winning scenario from a medium- to long-term perspective by leveraging our strengths 	✓	 Introduced and started operation of Materials Informatics Development, manufacturing, and financial DX in progress Medium term: Prior development to comply with new regulations, focusing on catalysts for motorcycles Long term: Collaborate with Business Creation Sector to develop environmentally friendly products
Mitsui Kinzoku ACT	 Aim to transform into a system supplier by focusing on the development and sales expansion of electric system products Strengthen cost competitiveness and quality by deepening global optimum production and smart factory 		 Received orders for electric sliding door system products for derivatives of existing models as planned. Developing and expanding sales of electric door system products and products for EVs Accelerating business restructuring mainly in China and Japan in response to lower sales and profit in FY2022 due to changes in the market environment (vs. 22-24 MTP)
Die- Casting	 Business restructuring and generation of appropriate profits 		 Cost improvement and shift to high value-added products are steady, but it is necessary to accelerate response to increased energy and raw material costs Creating and strengthening technology and sales synergies through the integration of Mitsui Kinzoku Die-Casting and Kamioka Components

Catalyst - Trends in Sales Volume for Motorcycles and Automobiles

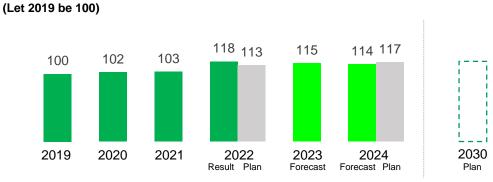
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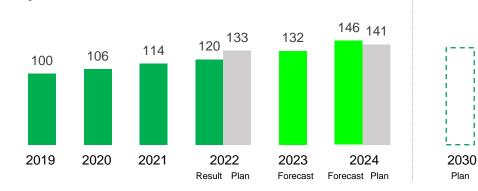
In FY2023, sales of catalysts for motorcycles are expected to increase in Southeast Asia and South America, and sales of catalysts for automobiles are also expected to increase due to new orders and GPF^{*} sales.

In the long run, aim to create new businesses that contribute to CN based on exhaust gas catalyst technology, and collaborate with the Business Creation Sector develop environmentally friendly products.

Sales results and forecasts of motorcycle catalysts



Sales results and forecasts of four-wheeled vehicles catalysts (Let 2019 be 100)



Sales volume in 2022

- · Sales in Southeast Asia and South America increased over plan
- Sales volume in 2023 onwards
 - Continued strong performance in Southeast Asia and South America. Market expected to remain strong until 2030
- Future Strategy
 - Maintain market share by complying with new regulations in each country and by complying with precious metal regulations (50% global market share)
- Sales volume in 2022
 - · Sales down from plan due to shortage of semiconductors
- Sales volume in 2023 onwards
 - Increased sales through new orders and GPF^{*} sales. In the mid- to long-term, the market will shrink due to accelerated electrification
- Future Strategy
 - While continuing to develop technologies to meet the next regulations of each country and to save precious metals, we will select and focus on development themes in order to create new environmentally friendly products

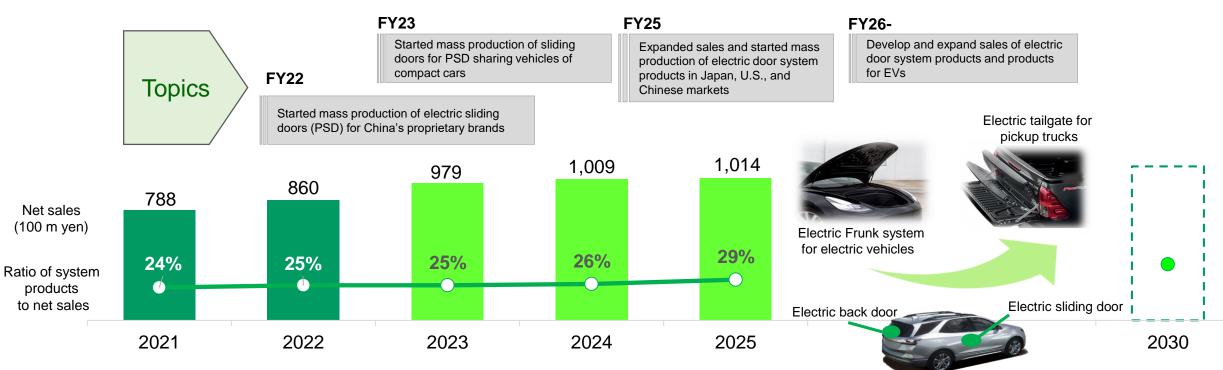
Mitsui Kinzoku ACT – Expand Sales of Electric Door Systems

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In addition to business structure reforms, increase the sales composition of high-value-added electric door system products in response to the expansion of electrification and automation of doors.

Expand sales of electric door system products and products for EVs



■ Promote business structure reform in response to lower sales/profit results (China, Japan)

• China: Expand local electrical/electronic product development resources in parallel with the EV shift as well as implement organizational changes in line with this expansion

· Japan: Thorough reform of head office functions and organization (development/production technology/quality control) for transformation into an electric door system supplier



Mitsui Kinzoku Die-Casting – Absorption-type Merger between Wholly Owned Subsidiaries

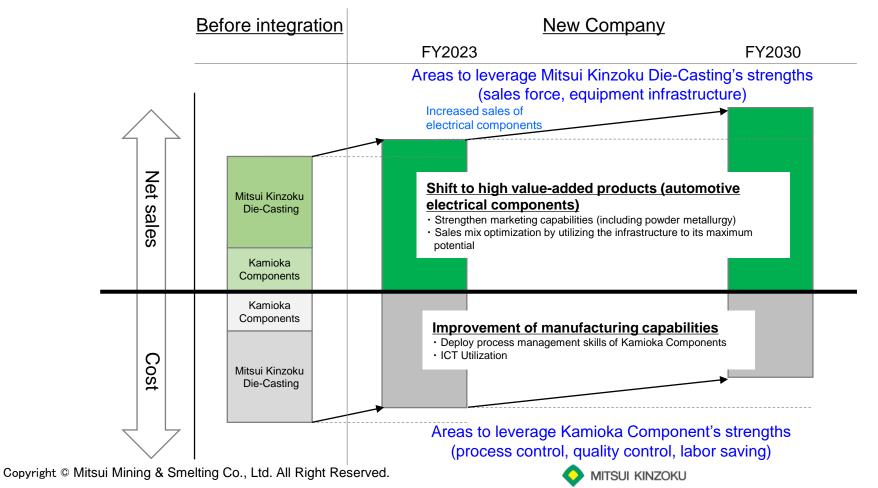
Financial value Value reinforcement

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



Decision to integrate Mitsui Kinzoku Die-Casting and Kamioka Components for the following purposes as head office synergies. (News release on February 7, 2023)

- To Build a foundation for sustainable growth of the metal parts business by combining and mutually complementing the management resources of Mitsui Kinzoku Die-Casting and Kamioka Components.
- To win in the attractive growth market for mobile electrical components through manufacturing.



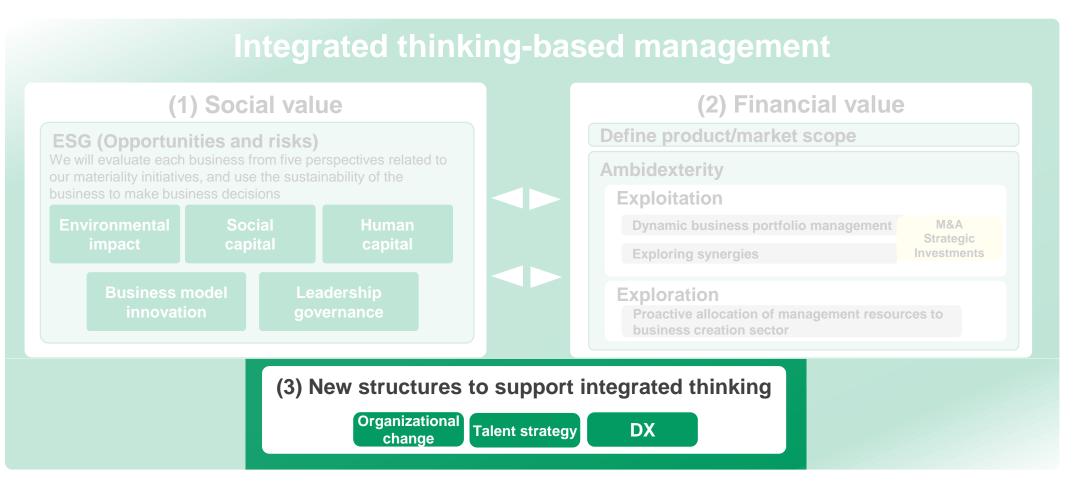
Head office synergies (sales channels, technology, etc.) from multiple perspectives

Integrated Thinking-based Management

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In order to achieve our vision based on Purpose, from April 2022, we conducted full-fledged introduction and promotion of Integrated Thinking Management, which aims to achieve both social and financial value.





Digital Transformation

New structures to support integrated thinking





Enhance competitiveness by promoting the three DX strategies of R&D, Manufacturing, and Business reform through reinforcement of the digital infrastructure.

	Main items	Vision for 2030	Major strategies for 22-24 MTP	Specific results		
Digital Technology Utilization	R&D	Industry's shortest R&D cycle time	 Finalize model for reducing R&D cycle time to 1/3 Build data infrastructure and operational infrastructure 	 Finished building data infrastructure Started building model 		
	Manufacturing	World-class manufacturing	 Digitize model refineries to stabilize their operations 	 Digitization in progress centered on equipment asset management system 		
	Backoffice reform	Resources used efficiently and effectively	 Visualize themes for streamlining backoffice operations Roll out SAP S/4HANA 	 Completed company-wide transition to S/4HANA Built visualization infrastructure and created reports 		
Digital Infrastructure	Infrastructure, security, governance	Digital tech used confidently and safely	 Build network for cloud computing Strengthen global security Expand system controls 	 Started introduction of new network Completed implementation of SOC* globally Implemented expanding system controls 		
	Talent management	Digital talent team across organization	Provide digital content training	 Started training, increased the number of students progressively 		

*SOC: Security Operation Center



Certified as a "DX Certified Business Operator" by the Ministry of Economy, Trade and Industry (News release on April 5, 2023)



Appendix



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Performance Trends (2019-2024)

	2019-2021 Mid-Term Plan			2022-2024 Mid-Term Plan					
	FY2019 Result	FY2020 Result	FY2021 Result	FY2022 Result	FY2023 Forecast	FY24 Forecast		22-24 MTP FY2022	22-24 MTP FY2024
Net sales	473.1 billion yen	522.9 billion yen	633.3 billion yen	652.0 billion yen	645.0 billion yen	718.0 billion yen		725.0 billion yen	725.0 billion yen
Ordinary income	9.3 billion yen	51.3 billion yen	66.0 billion yen	19.9 billion yen	20.0 billion yen	47.0 billion yen		40.0 billion yen	60.0 billion yen
Real profit	20.8 billion yen	38.6 billion yen	57.6 billion yen	26.7 billion yen	22.5 billion yen	47.0 billion yen		41.4 billion yen	62.0 billion yen
Profit attributable to owners of parent	1.6 billion yen	44.8 billion yen	52.1 billion yen	8.5 billion yen	10.0 billion yen	32.8 billion yen		29.0 billion yen	44.0 billion yen
Free cash flows	1.3 billion yen	11.2 billion yen	35.1 billion yen	11.4 billion yen	0	24.0 billion yen		15.0 billon yen	*85.0 billion yen
Capital investment	34.0 billion yen	28.2 billion yen	27.5 billion yen	32.5 billion yen	45.0 billion yen	38.6 billion yen		46.0 billion yen	[*] 117.0 billion yen
ROE	0.9%	24.6%	23.8%	3.5%	3.9%	12.2%		11.4%	14.0%
Equity ratio	30.7%	33.4%	37.6%	40.1%	40.1%	43.2%		41.0%	50.0%
Net D/E ratio	1.22	1.09	0.82	0.76	0.78	0.66		0.71	0.42
(Assumption)									
Zinc (\$/t)	2,405	2,420	3,254	3,332	3,000	2,900		3,700	3,000
Exchange (Yen/\$US)	108.8	106.1	112.4	135.5	130.0	135.0		120.0	120.0

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*Figures in parentheses are three-year totals

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Regarding latent risks which might impact forecast results and other uncertainties, some items are included in the "Business and Other Risks" section of our financial statements or our website. However, please recognize that these are just a summary rather than a comprehensive list of all possible items relating to latent risks and uncertainties.

This material was compiled with the aim of furthering the understanding of our shareholders and other investors with regard to the Company's management policy and other details. This material is not for the purpose of soliciting investment through the purchase or sale of stocks. Accordingly, you are advised not to make your investment decision solely on the basis of the material presented herein.



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