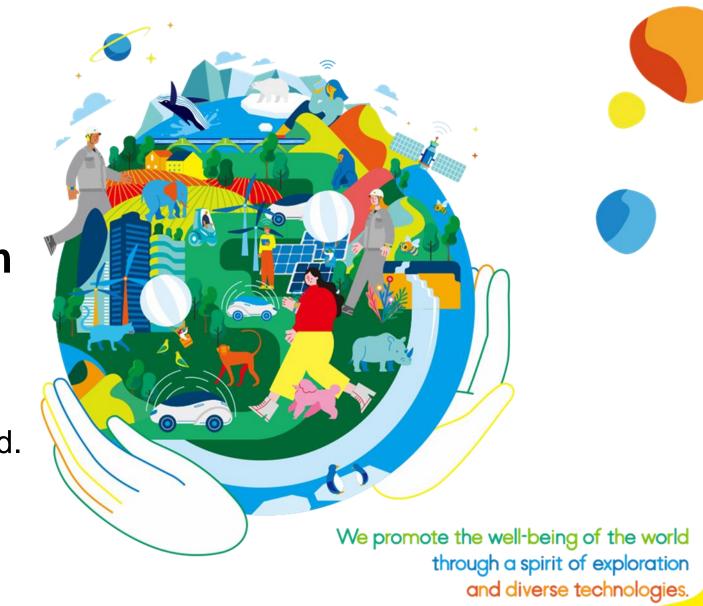
Progress Briefing on 2022-2024 New Medium Term Business Plan

May 21, 2024 Mitsui Mining & Smelting Co., Ltd.





Purpose and 2022-2024 Medium Term Business Plan (22-24 MTP)



We commenced 2022-2024 Medium Term Business Plan in conjunction with establishing **Purpose (Our social reason for existence)**, and FY2024 will be the final year of the medium-term plan. We aim for sustainable growth and enhancement of corporate value in the medium to long term based on "**ambidexterity**" and

"integrated thinking-based management"



Purpose

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

Ambidexterity

- Exploration (Experiment and act on new business)
- Exploitation

(Business efficiency improvement and ceaseless kaizen efforts)

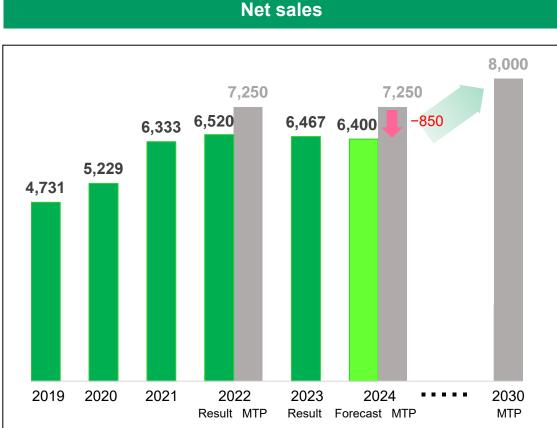
Integrated thinking-based management

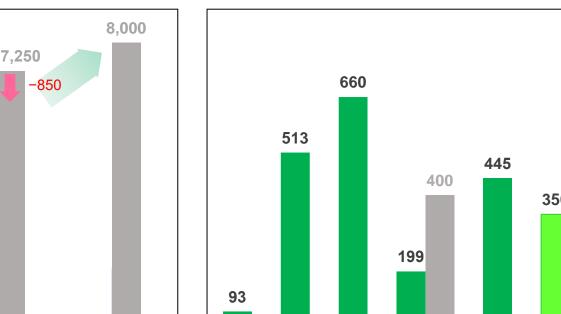
- Social value improvement
- Financial value improvement



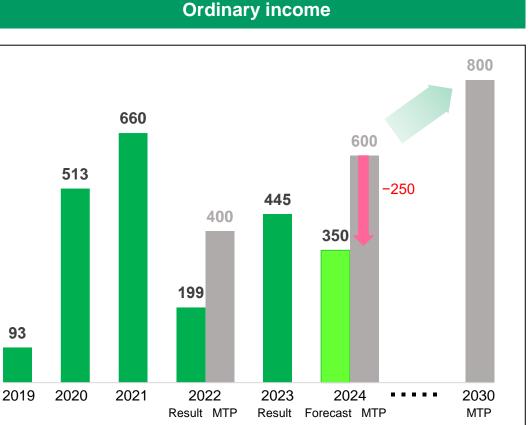
Financial Figures - Net Sales and Ordinary Income

Financial figures for the final fiscal year of 22-24 MTP (FY2024) are expected to fall far short of the target. However, the FY2030 target remains unchanged (Unit: 100 million yen) (Unit: 100 million yen)





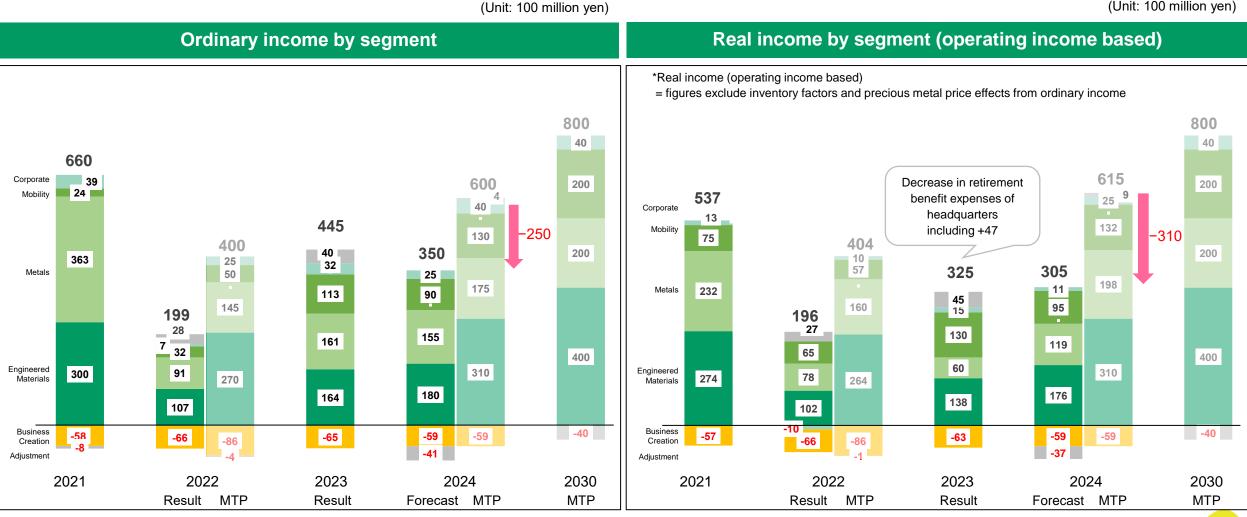
Although the financial figures were far short of the plan, our efforts toward 2030 (ambidexterity and integrated thinking-based management) are F progressing better than 22-24 MTP. We will continuously aim to achieve sustainable growth and increase our corporate value in the medium to long







All segments are expected to fall far short of 22-24 MTP due to lower sales of major products, higher costs, etc. compared to 22-24 MTP



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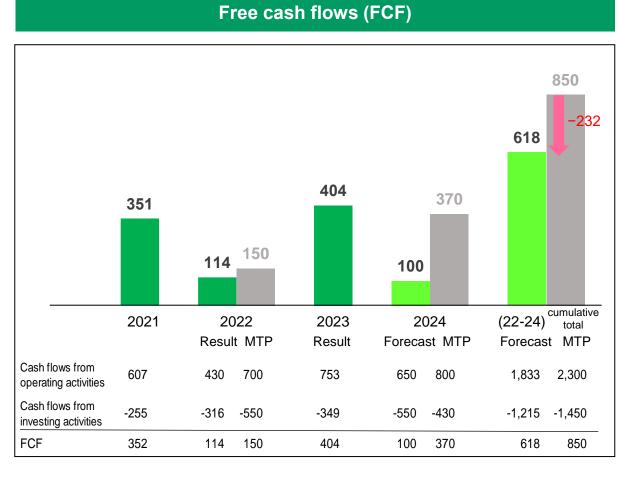
MITSUI KINZOKU



(Unit: 100 million yen)

targets, but the financial structure is expected to improve moderately

Financial Figures - Cash Flows, ROE, Equity Ratio





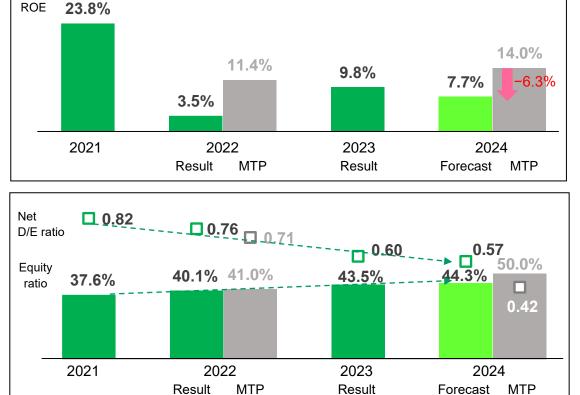
(Unit: 100 million yen)

ROE, Equity ratio, Net DE ratio

We promote the well-being of the world

through a spirit of exploration

and diverse technologies.



Shareholder Returns

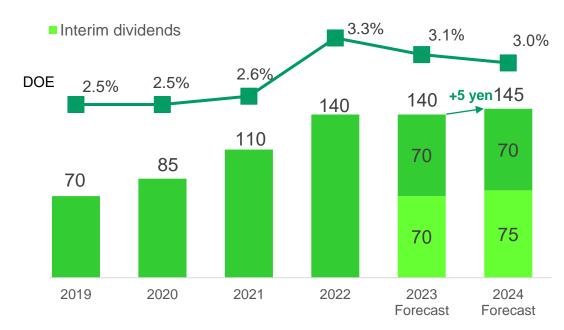
We promote the well-being of the world through a spirit of exploration and diverse technologies.



Based on the dividend policy, we plan to pay a **dividend of 145 yen** in 2024, **an increase of 5 yen** from the previous year. The dividend policy will continue for the foreseeable future.

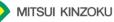
Dividend policy for 22-24 MTP onwards

To ensure stable and continuous dividend payments, we aim to pay dividends to shareholders with a dividend on equity ratio (DOE) of **3%**



Trends in dividend per share and DOE

- Since FY2022, when we established our dividend policy, we have paid continuous and stable dividends.
 Aiming for DOE of 3%, dividend is expected to increase in the medium term
- With progress in improving our financial structure, we will also revise our dividend policy in the medium to long term.

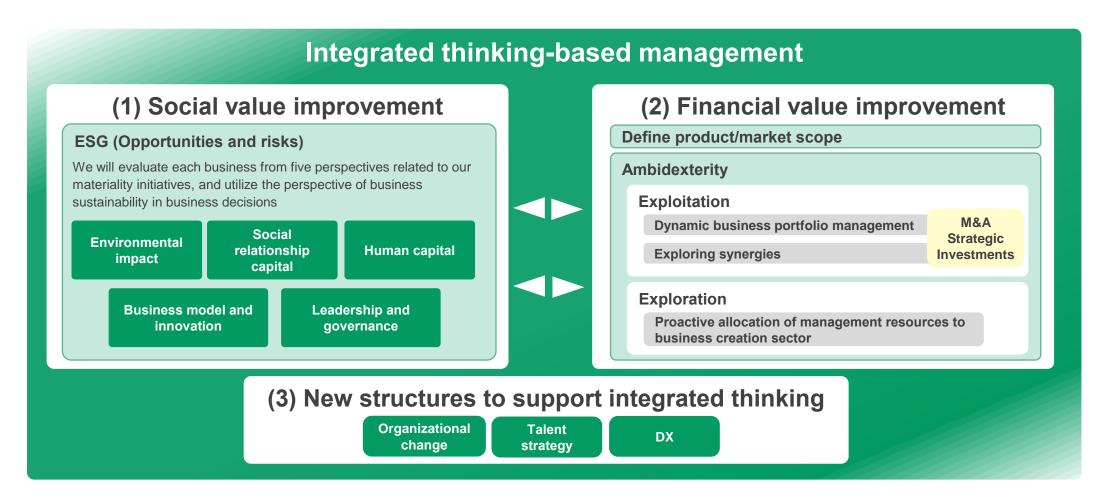


Integrated Thinking-based Management

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



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



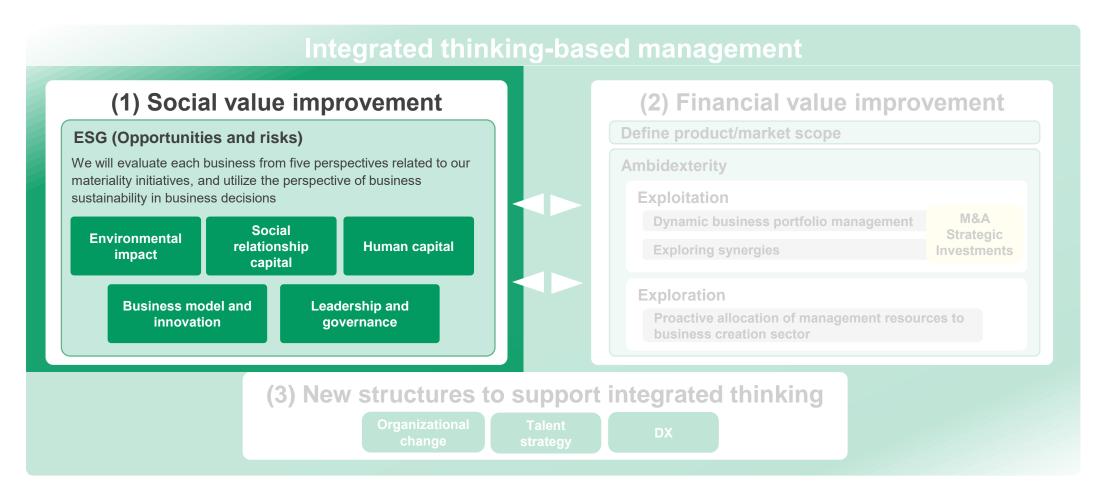


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Social Value Improvement

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



Initiatives are **progressing as planned** for Environment (Initiatives to achieve carbon neutrality), Human capital/Talent strategy, and Governance

Main items	Main progress							
Environment (Initiatives to achieve carbon neutrality)	 Formulation of Transition Strategies^{*1} for Carbon Neutrality (CN) (News release on January 9,2024) Company-wide TCFD scenario analysis in progress (Scheduled to finish by FY2024) 	P10						
Human capital/ Talent strategy	 Promote DE&I^{*2} Ratio of female managers: approximately 4%, male childcare leave ratio: 42%, newly launched Rewarding and Engaging Work Promoting Office 7.7% salary raise and salary revision for newly graduated employees (News release on February 14, 2024) Obtained "Eruboshi," certification mark of an excellent company promoting women's participation and advancement in the workplace (News release on November 8, 2023) Certified as 2024 Health & Productivity Management Outstanding Organization following 2023 (News release on March 11, 2024) 	P11 P12						
Governance	 Transition to a Company with an Audit and Supervisory Committee (TSE disclosure on January 22, 2024) Formulation of Stock Ownership Guidelines for Executive Officers and Higher Positions (News release on March 25, 2024) Evaluation of the Board's Effectiveness and Response to the Details of Interviews with Institutional Investors and Outside Directors 	P14 P13						

*1 Transition Strategy: Four approaches (energy-saving/resource saving, energy and fuel transition, low-carbon electricity and offset/innovation) contribute to CN social implementation

*2 DE&I: Diversity, Equity and Inclusion



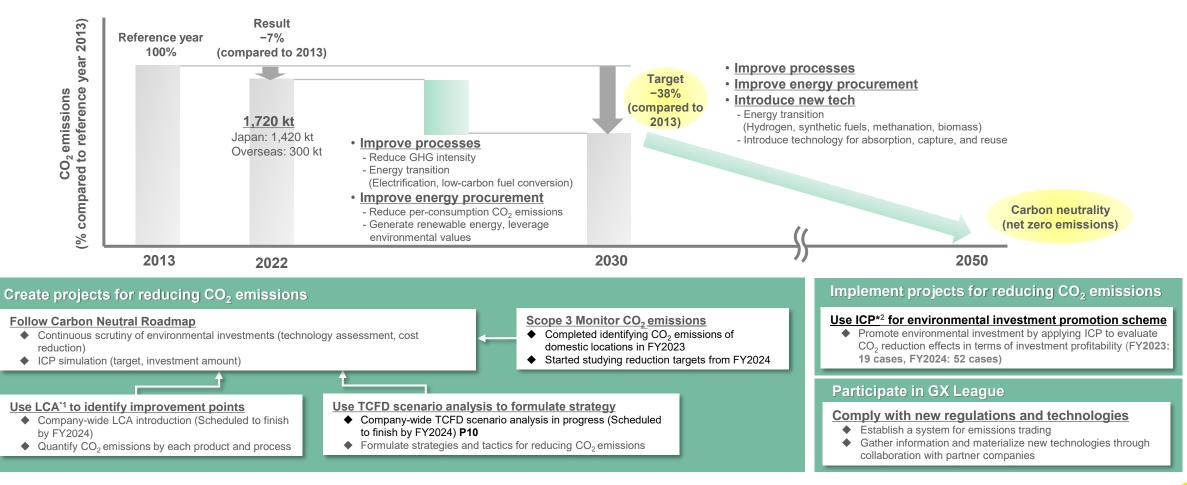
Medium- to Long-term CO₂ Emission Reduction Targets and Initiatives

November 20, 2023 Reprinted version of ESG briefing session material

> Social value improvement (Environment)



- Reduce CO₂ emissions by 38% globally by FY2030 (Scope 1, 2 compared to FY 2013)
- Aim to achieve carbon neutrality (zero net emissions) by FY2050





Medium- to Long-term CO₂ Emission Reduction Targets and Initiatives



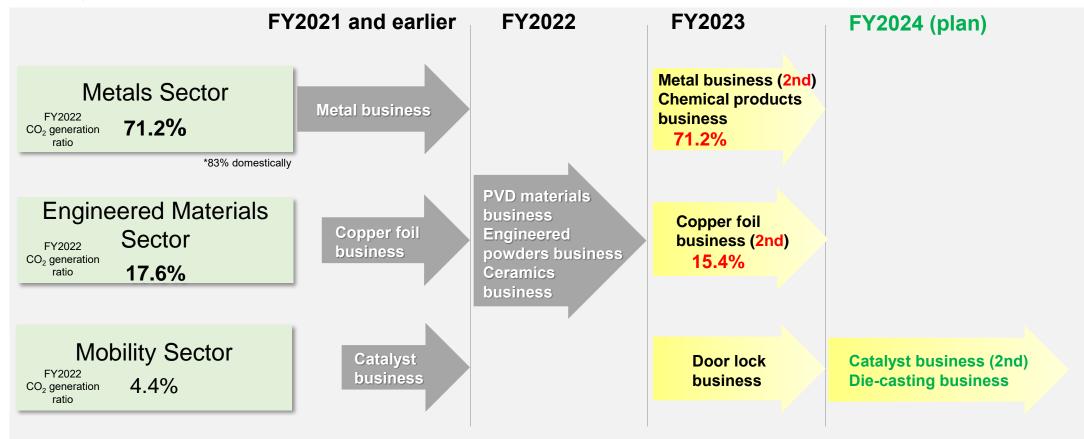
Social value improvement (Environment)

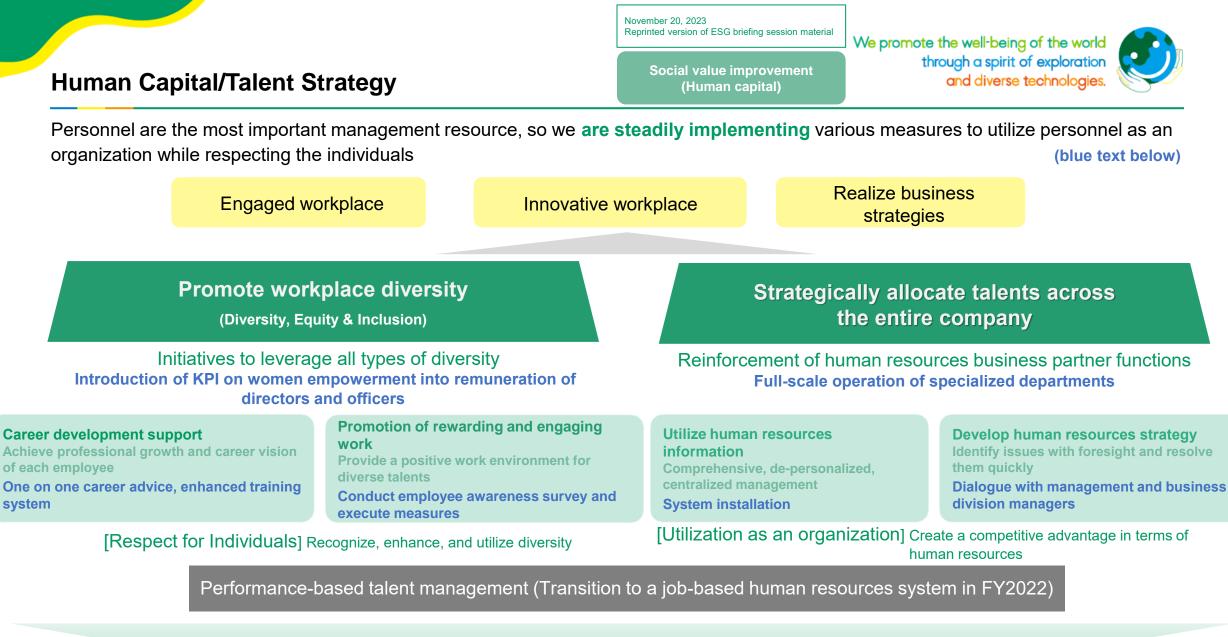


Company-wide TCFD scenario analysis introduction

Company-wide TCFD scenario analysis in progress by business from businesses highly likely to be affected by climate change.

Conducted review of metal and copper foil businesses with significant impact in FY2023. Plan to conduct further reviews and review of Catalysts Division in FY2024





Respect for human rights

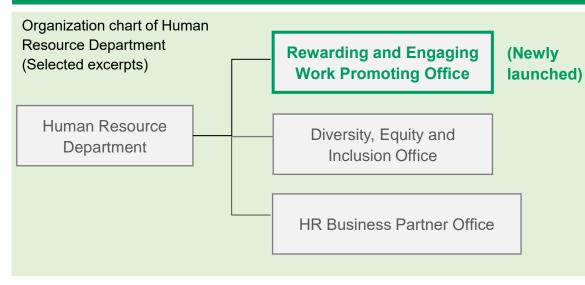


Initiatives to Enhance Human Capital

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



For bolstering the promotion of rewarding and engaging work



- Launched Rewarding and Engaging Work Promoting Office in April 2024
- We will implement company-wide strategies to accelerate the promotion of rewarding and engaging work and measures to continue the promotion
- We will increase employee engagement toward 2030 and build a workplace attracting diverse people to increase our corporate value

Salary raise and salary revision for newly graduated employees (News release on February 14, 2024)

[Outline]

- For regular employees (excluding managers)
- Salary raise of 20 thousand yen/month (Average rate of salary raise is 7.7%)
- Reached the highest level of salary for new graduates in the industry by increasing salaries according to each category from senior high school graduates to doctorate graduates
- This salary raise is the largest ever seen in the last 30 years and exceeds the union's request. The reaction to this salary raise was strong due to the quick response to the union's request
- We will continuously invest in human capital to improve employee engagement and attract a talented workforce



Initiatives to Strengthen Governance and Enhance Corporate Value

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



Response to the Board's effectiveness evaluation						
[Issues]	[Responses]					
 Discussion on allocation of management resources, including investment in human capital and intellectual property Discussion on strategy implementation regarding the business portfolio Numerous items for discussion at Board of Directors meetings (Delegation of authority from the Board of Directors to Executive Officers should be pursued) 	• Transition to a company with an Audit and Supervisory Committee Concentrate on discussions to enhance corporate value, such as company- wide strategies, by delegation of authority to executive officers with a monitoring model approach to reduce the number of agenda items at Board of Directors meetings					

Response to the details of interviews with institutional investors and Outside Directors

[Requests for disclosure]

- · Specific criteria for business portfolio management
- · Quantitative disclosure of capital cost and capital efficiency improvements
- Connection of measures related to human capital to corporate value improvement
- Discussions and responses by the Board of Directors regarding the dialogue details with investors
- Connection of intellectual property (IP strategies) to corporate value enhancement

[Responses]

• All items are currently under careful examination. We will **enrich disclosure details** at the start of 25-27 MTP

[Expected measures]

- · Acceleration of business portfolio transformation
- Increased accuracy regarding business performance forecasts
- Reduction in capital costs through volatility reduction
- Introduction of capital efficiency indicators in line with shareholder views on performance-linked compensation (ROE, ROIC, etc.)

[Responses]

• We accelerated some of the expected measures above from FY2024 by the transition to a company with an Audit and Supervisory Committee We will respond with more awareness than before from 25-27 MTP

Transition to a Company with an Audit and **Supervisory Committee**

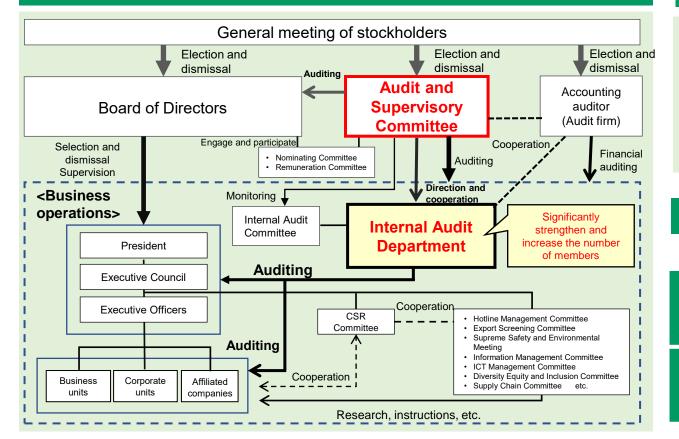
Social value improvement (Governance)

through a spirit of exploration and diverse technologies.

We promote the well-being of the world

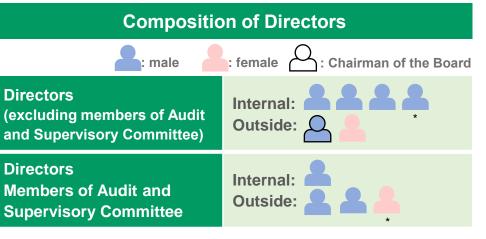
Strengthen governance through transition to a company with an Audit and Supervisory Committee, increased ratio of outside directors to half, increased ratio of female executives, appointment of external financial accounting skilled personnel, appointment of Outside Director as Chairman of the Board of Directors, thereby orienting to the Board of Directors as "Small-sized general meeting of stockholders"

Corporate governance system chart (Plan)



Transition objectives

- Significantly transfer power to Executive Officers and strengthen monitoring functions over management
 - \rightarrow Transition to a monitoring model approach
- Concentrate on discussions to enhance corporate value, such as company-wide strategies, at the Board of Directors meetings
 - \rightarrow Support for company-wide strategies from a governance perspective

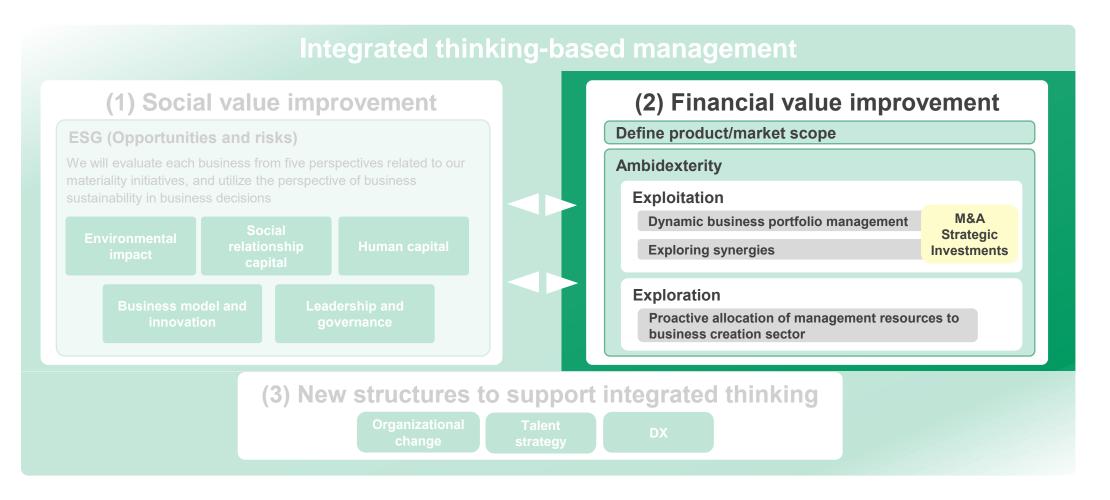


Integrated Thinking-based Management

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



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





FY2023 Review of Business Valuation Matrix

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



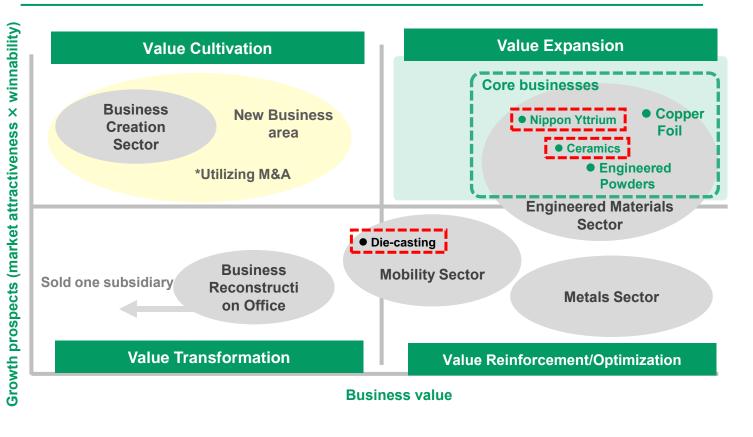
Added Nippon Yttrium and Ceramics to core businesses through review of the matrix in FY2023. Started selling of subsidiaries under the umbrella of Business Reconstruction Office.

Going forward, we will implement **business expansion measures** including M&A in Value Expansion and Value Cultivation businesses and **searching best outside owners** centered on Value Transformation business

Business Valuation Matrix

Change the

Change through FY2023 review of the matrix



Value Expansion

- Conversion of Nippon Yttrium to a Wholly-Owned Subsidiary
 - (New release on February 29, 2024)
 - → Aim to further increase business value through synergy creation (For details, see P28-29)

Value Transformation

 Transfer of Shares of Consolidated Subsidiary Nihon Kessho Kogaku Co., Ltd. (News release on May 13, 2024)

To further improve capital efficiency, we will actively invest management resources in Value Cultivation and Value Expansion



Capital Investment / Investment and Lending (M&A)

Powders

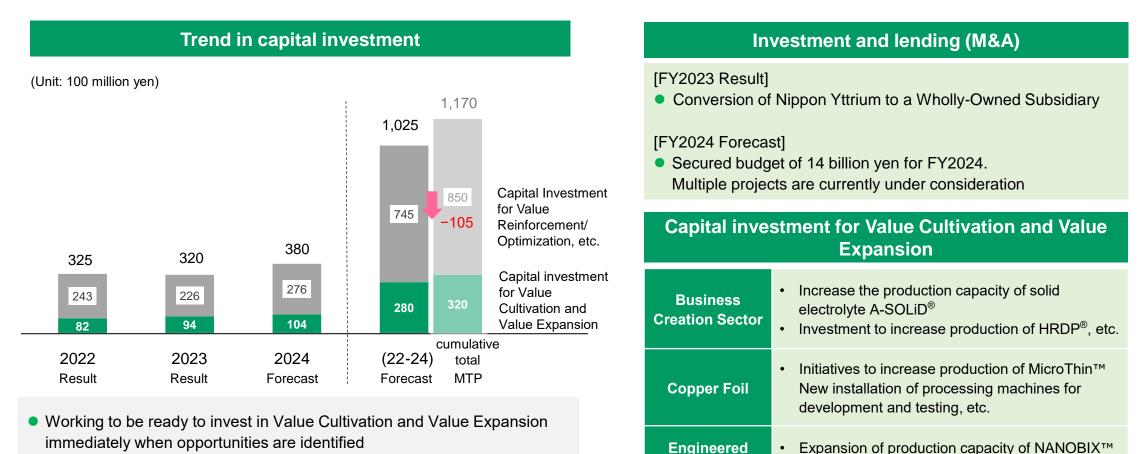
We promote the well-being of the world through a spirit of exploration and diverse technologies.

New product development including iconos™



Downwardly revised approximately 10 billion yen for capital investment in **Value Reinforcement**/Optimization, as a result of the deterioration of business performance compared to 22-24 MTP.

Secured M&A budget in 22-24 MTP (20 billion yen in three years from 2022 to 2024). Multiple projects are under consideration.



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Measures to Achieve Capital Cost and Stock Price Conscious Management

22-24 MTP

(2022-24)



We **are accelerating** our initiatives to enhance our corporate value thorough measures to improve financial value and advance ROIC management

(1) Measures to improve financial value

 Aim to increase earnings per share (EPS) and improve stock value multiple such as PER by steadily implementing the measures to improve financial value shown in 22-24 MTP

Financial value improvement



Exploration

Proactive allocation of management resources to business creation sector

(2) Advance ROIC management

- Established ROIC as one of the indicators of business value and structured it to evaluate businesses with high capital efficiency in dynamic business portfolio management
- Improve company-wide ROIC by setting and achieving ROIC targets by business
- We are considering the following measures to further implement management with an emphasis on capital efficiency
 - Calculate Weighted Average Cost of Capital (WACC) by business and set an appropriate ROIC target (ROIC spread: ROIC-WACC) by business
 - Raise awareness of corporate value improvement and introduce company-wide measures to spread ROIC
 - Set indicators necessary for ROIC improvement at each company organization and respond to them (ROIC tree, etc.)
 - Introduce efficiency indicators (ROIC, etc.) into the performance measures of Directors and Senior Executive Officers

Aim to start ROIC management from 2025, the first year of next MTP

Business Creation Sector (1) -2030 Target of Business Creation Sector

April 16, 2024 Revised version of briefing material prepared by **Business Creation Sector**

Financial value improvement

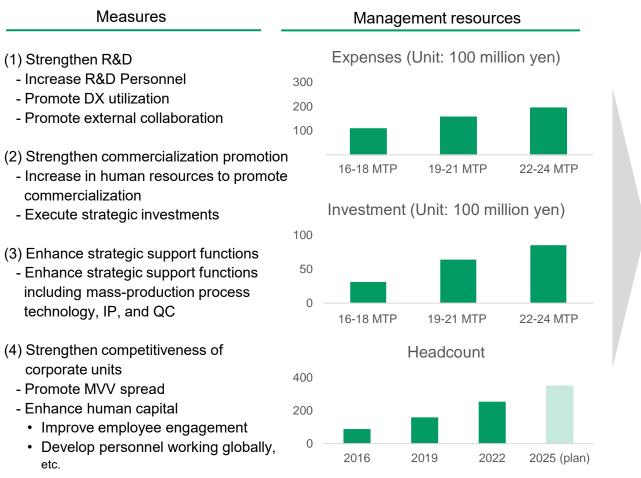
Value Cultivation

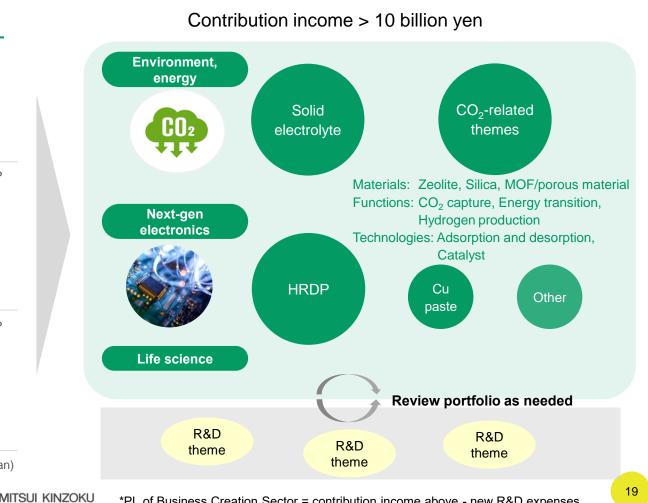
We promote the well-being of the world through a spirit of exploration and diverse technologies.



Proactively invest management resources with the goal of achieving contribution income of 10 billion yen^{*} or more in 2030 under the commercialization theme

Key measures of Business Creation Sector





2030 target

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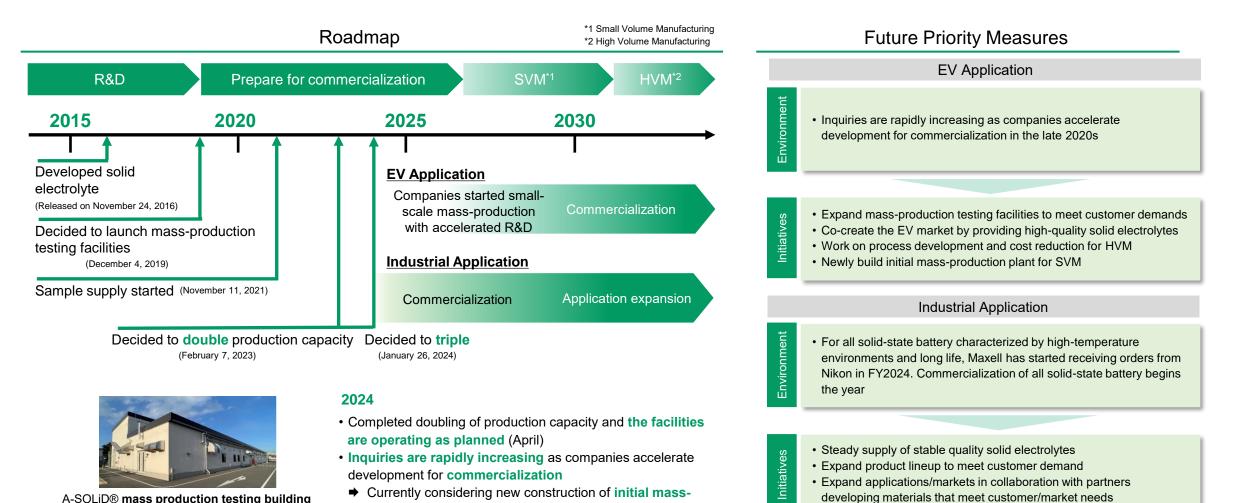
Business Creation Sector (2) - A-SOLiD[®], Solid Electrolyte for All-Solid State Battery (ASSB)

April 16, 2024 **Revised version** of briefing material prepared by Business Creation Sector

Financial value improvement Value Cultivation



Vision for 2030 Establish a position as a leading company in solid electrolyte by contributing to realizing a decarbonized society through All-Solid State Battery (ASSB)



A-SOLiD® mass production testing building (Ageo City, Saitama Prefecture)

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🔷 ΜΙΤSUI ΚΙΝΖΟΚU

production plant

Business Creation Sector (3) - HRDP[®] for Next-gen Chip PKG Device

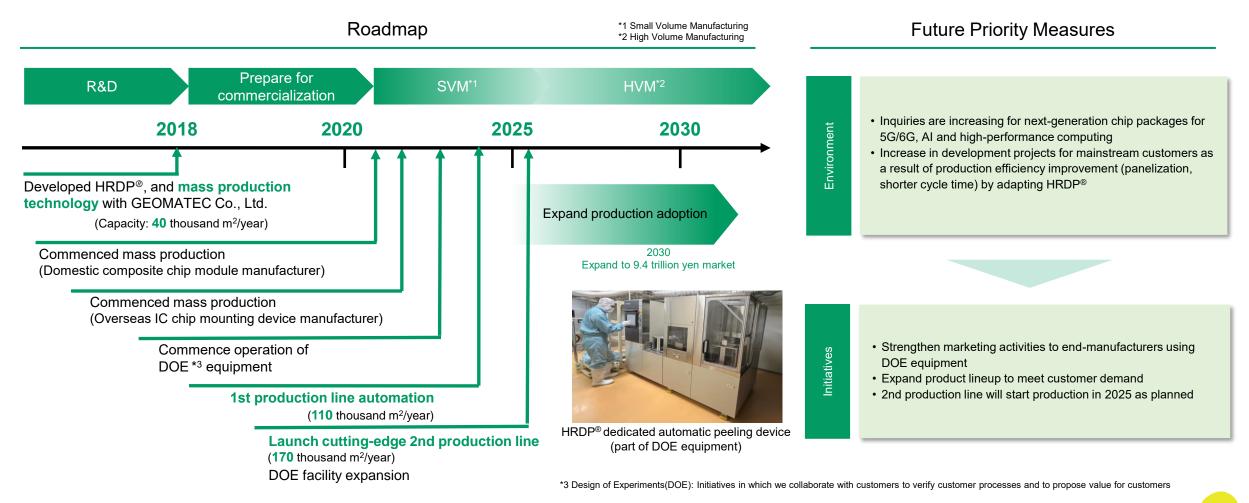
April 16, 2024 **Revised version** of briefing material prepared by Business Creation Sector

Financial value improvement Value Cultivation



Vision for 2030

Achieve a de-facto standard for packaging platforms for next-gen chip PKG devices





Business Creation Sector (4) - CO₂-related Theme Initiatives

April 16, 2024 Reprinted version of briefing material prepared by Business Creation Sector

Financial value improvement Value Cultivation



We aim to realize higher offered value with membrane reactor combining separation membrane and catalyst in collaboration with eSep^{*1} and us holding catalyst technology

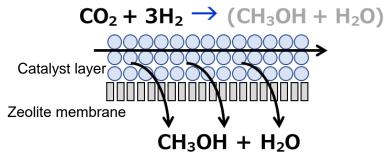
Methanol production from CO₂ through membrane reactor

CO₂-Methanol production reaction

 $CO_2 + 3H_2 \rightleftharpoons CH_3OH + H_2O$

 CH_3OH theoretical yield = **around** <u>**20%**</u> (250°C,5MPa)

Mechanism of membrane reactors



Selectively separates products to accelerate reactions and increase yields

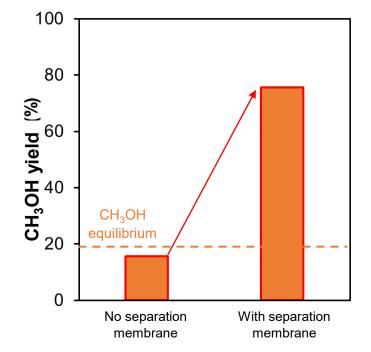
*1 News Release on July 28, 2022: Investment in Environmental Energy Venture Company "eSep" (Develop, manufacture and sell functional separation membranes made of ceramics)

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Lab-scale test results

Confirmed it **is possible to break** theoretical yield with separation membrane^{*2}



*2 Already announced at The 36th Fall Meeting of The Ceramic Society of Japan



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 Held a business briefing session regarding copper foil, engineered powders and Nippon Yttrium on January 12, 2024							
	Major strategies of 2022-2024 Mid-Term Plan	Evaluation	Progress and future initiatives				
Copper foil	 Fully prepared for the expansion of markets and applications for MicroThin™ (1) Entering new markets (2) Supply capacity maximization and further expansion 	FY22 → FY23 Positive → Positive	 (1) Increased adoption of HDI MSAP (Positive) (2)-1 Progress of transfer from PKG-MT to Malaysia (Positive) (2)-2 Expansion of production capacity at Ageo operation site (Positive) (Expanded monthly production capacity to 2.5 million m² in Ageo or 4.9 million m² including Malaysia) 	- 1			
Engineered powders	 Maximize profits from existing products (expand sales of copper powders for electrical materials and abrasives) New product launches (iconos^{™*}, copper powders for 3D printer, etc.) 	Neutral → Neutral	 Existing products did not reach target due to external factors (Negative) New products are performing well centered on iconos[™] (Positive) 				
PVD materials	 Develop new products for the future by implementing cost reductions through production innovation while securing appropriate margins 	Positive → Neutral	 Although price correction and cost reduction are proceeding as planned, price competition in general-purpose products market is further intensifying (Negative) Development of new product (high value-added product) is going well (Positive) 				
Ceramics	 Expand sales of new products including next-gen setters 	Positive → Positive	Steady progress in sales expansion for next-gen setters, 3D ceramic moldings, etc. (Positive) Change to Value Expansion business				

*iconos™: Rare metal liquid solution

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

January 12, 2024 **Revised version** of business briefing session material regarding copper foil, engineered powders

Financial value improvement Value Expansion



• Passing on various cost-increasing factors to selling prices

(Effectively utilize both business locations)

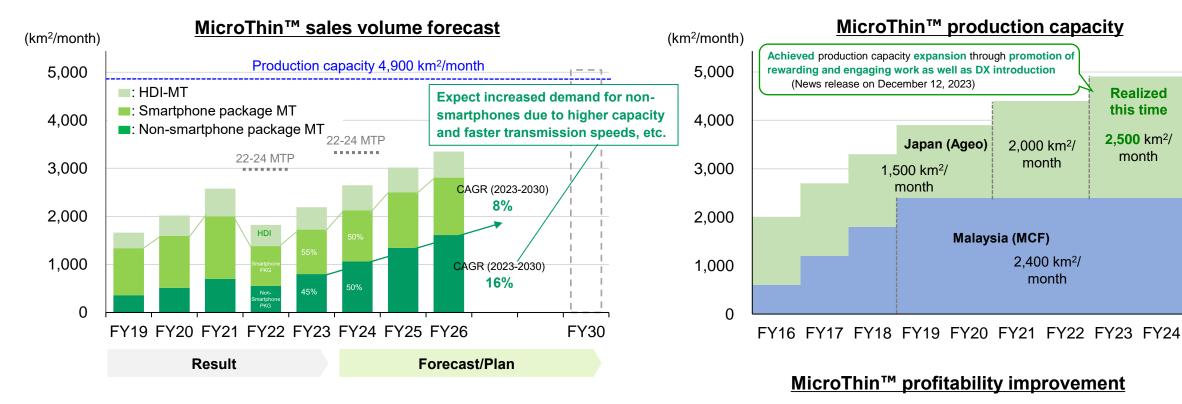
processing machine

• Expand sales of new value-added products (GN) and improve sales mix

Promote production transfer of products for packaging to Malaysia

Speed up product development by using a new development test

Although the FY2024 sales volume of MicroThin[™] fell short of the 22-24 MTP target, the growth story toward 2030 remains unchanged. The existing production capacity is sufficient to cater to present demand. Achieved further increase by improving productivity, etc. in FY2023



- Competitive situation remains unchanged: Share for PKG >95%, Share for HDI: 100%
- For packaging: Increased demand in non-smartphone segment due to higher capacity and faster transmission speeds, etc.
- For HDI: Expanded MSAP adopted models for Chinese smartphone manufacturers

Copper Foil (2) - Sales Performance and Forecast of High Grade VSP[™] (Very Smooth Profile Copper Foil)

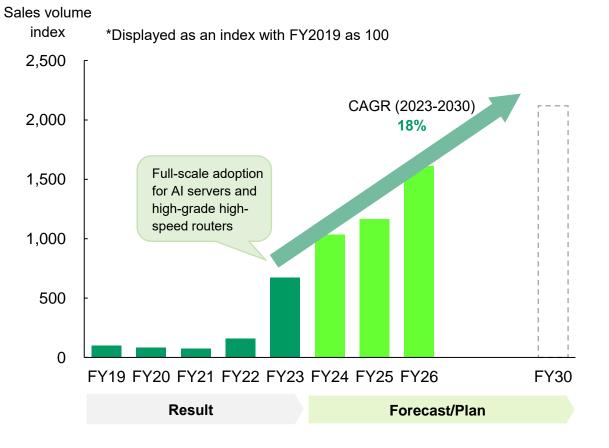
January 12, 2024 Reprinted version of business briefing session material regarding copper foil, engineered powders

Financial value improvement Value Expansion



Amidst the future growth of the market for AI servers and other information and telecommunications infrastructure, expanding demand of high grade VSP[™] foil for high speed transmission is expected

Sales performance and forecast of high grade VSP™



Market and our initiatives

- FY2022 and earlier
 - Promoted initiatives for stable supply of regular products
 - Promoted high-grade products to new customers
- FY2023
 - **Began full-scale mass production** and adoption of high-grade products for AI servers, high-speed routers, etc.
- FY2024 onwards
 - Expect to increase volume of high-grade products in the long term due to market share expansion

For future demand growth, our initial responses are to improve product mix of electro-deposited copper foil and to increase production capacity by improving productivity



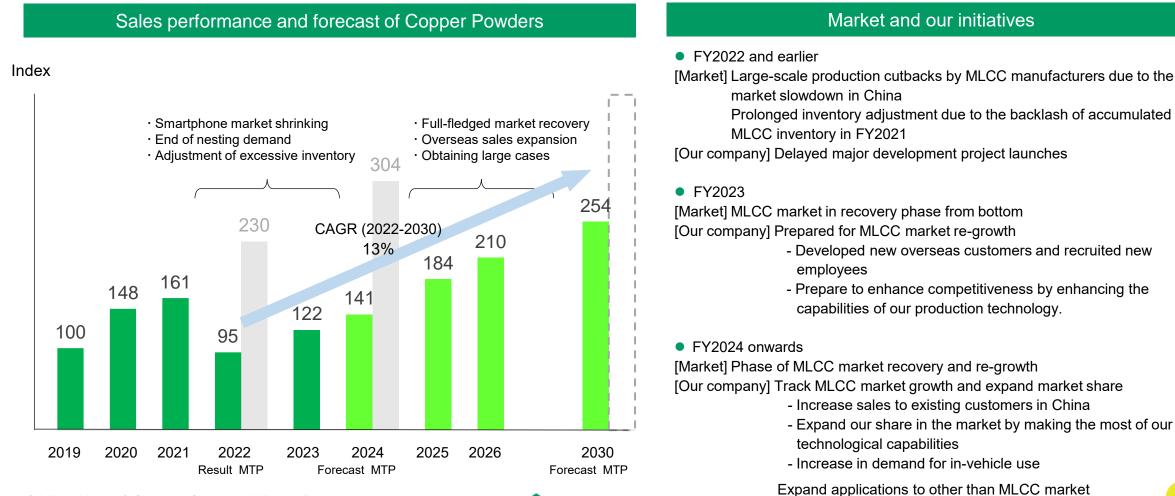
Engineered powders (1) - Sales Performance and Forecast of Copper Powders

January 12, 2024 Revised version of business briefing session material regarding copper foil, engineered powders

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



Sharply downgraded sales forecast of Copper Powders in line with MLCC market growth forecast revision. Current performance is expected to grow, reflecting overseas sales expansion. Growth rate is higher than MLCC market CAGR (6%)



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Engineered Powders (2) - Status of **New Product Development**

January 12, 2024 Revised version of business briefing session material regarding copper foil, engineered powders

Financial value improvement Value Expansion

and diverse technologies.

Expanded Production Capacity of Abrasive for SiC wafers (NANOBIX[™]). Steady progress in development of rare metal liquid solution (iconos[™]) that has a great impact on the market

Abrasive for SiC wafers – NANOBIX[™]

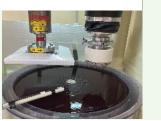
A two-pack abrasive for power devices ٠ consisting of manganic oxide base abrasive grain liquid and oxidant liquid for SiC wafers

Product outline

Features

Status

Abrasive for SiC wafers



After grinding

Observation image of SiC wafers (SICA)

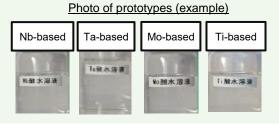
Before grinding

Compared to existing silica abrasive/alumina abrasives.

- Capable of grinding SiC wafers faster with less damage
- Easier to remove the abrasive grains after grinding SiC wafers
- Completed the plant design for 50 t/year production capacity. Production capacity expansion will be completed in September 2024
- Adopted by three customers in Japan, one customer in China. Under evaluation by several companies in US, EU and other areas
- Further demand growth is expected in the future as SiC semiconductors become more widespread (Market scale of abrasive for SiC wafers: 170 million USD/2029)

Rare metal liquid solution – iconos[™]

Liquid with insoluble metals such as rare metals dissolved in an aqueous solvent (Chemical element: Nb, Ta, Mo, Ti, etc.)



We promote the well-being of the world

through a spirit of exploration

Compared to existing rare metal-based liquid solutions,

- Free of strong acidic chemicals such as hydrofluoric acid. Excellent in safety and handling
- Highly reactive. Capable of forming uniform, ٠ thin coatings on a variety of materials



Coating thickness Nb coated glass (cross-section picture)

- Developed iconos[™], the unprecedented new materials will have a major impact on the inorganic material market (News release on March 28, 2024)
- Expected income in 2030 is over one billion yen/year. Currently several projects in progress
- Expected further application development by leveraging the features of iconos™

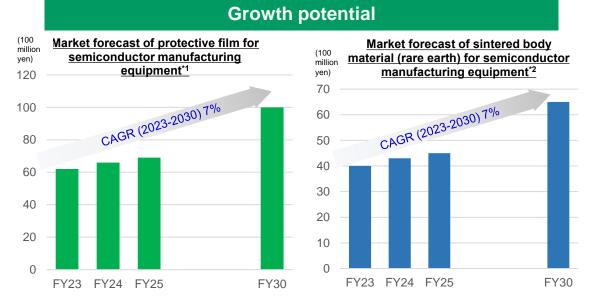


Nippon Yttrium (1) Conversion to a Wholly-Owned Subsidiary

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



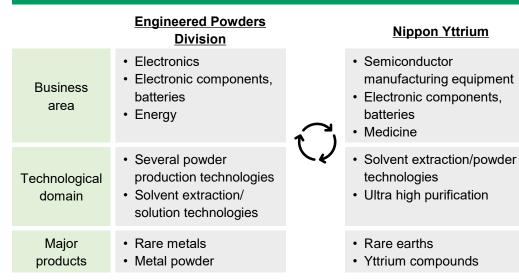
As of March 1, 2024, Nippon Yttrium, one of the few rare-earth integrated manufacturers in Japan, **became a wholly owned subsidiary**. By making Nippon Yttrium a wholly owned subsidiary, we **are steadily implementing** initiatives in the advanced materials field to create synergies with our business of engineered powders and rare metals, which are adjacent to Nippon Yttrium's business areas



Nippon Yttrium are engaged in manufacturing, sales, and development of protective film materials protecting inner walls of cutting-edge semiconductor manufacturing equipment (etching equipment) from plasma gas

Keep the world's No. 1 position in the market of protective film materials for semiconductor manufacturing equipment toward 2030, and achieve increased income through differentiated products accurately capturing user needs in electronic materials and medical field materials

*1, *2: Forecasts based on materials prepared by research firms



Initiatives for creating synergies

Accelerate new product development in the advanced materials field

- Improving efficiency of rare earth recycle*3
- Channel expansion and optimization of product sales/raw material procurement, etc.

Achieve further business value enhancement through synergy creation

*3: Started taking part in JOGMEC project (highly efficient solvent extraction project) in 2022

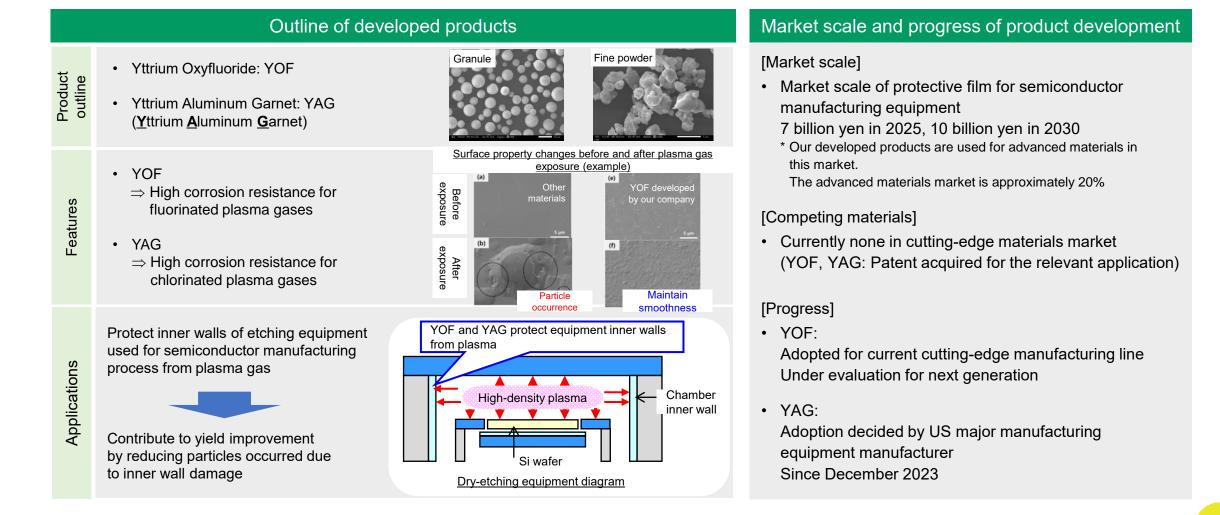
Nippon Yttrium (2) -Protective Film Materials for Semiconductor Manufacturing Equipment-

January 12, 2024 Reprinted version of business briefing session material regarding copper foil, engineered powders

Financial value improvement Value Expansion



Nippon Yttrium is **the industry leader** of protective film materials for etching equipment supporting cutting-edge semiconductor manufacturing processes. **Contributes to yield improvement of semiconductor devices** by reducing extraneous particle occurrence





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

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

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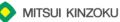
Financial value improvement Value Reinforcement/Optimization through a spirit of exploration and diverse technologies.



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

	Major strategies of 2022-2024 Mid-Term Plan	Evaluation	Progress
Metals Sector	 Build an advanced recycling network leveraging our unique and diverse smelting assets 	FY22 → FY23 Positive → Positive	 Plan and steer an overall optimal strategy using the recycling network of seven domestic smelting plants Developed and implemented facility management systems and operational data collection systems for digital infrastructure development in Hachinohe Smelting Conducted a demonstration test of 70% biomass fuel substitution in Miike Smelting Conducted a demonstration test to introduce small equipment for CO₂ capture test being developed by Business Creation Sector to Hachinohe Smelting
Zinc and lead	 Leverage existing assets to expand industrial waste disposal business 	Positive → Positive	 Achieved revenue from waste disposal business surpassing MTP target following the tailwind of expanding waste disposal needs associated with a shift back to domestic manufacturing
	 Margin increase in raw materials due to increase in complex ore disposal 	Positive → Neutral	 Complex ore disposal in Hachinohe Smelting achieved year-on year increase in collection volume, but failed to reach the MTP target
	 Newly contribute to income through increased collection and disposal of lead-based raw materials 	Positive → Positive	 Search for disposal needs of intermediate products containing valuable metals (recycled raw materials) at external overseas smelters to utilize our smelting network of zinc, lead and copper
Copper and	 Improve margins from increased smelting of profitable raw materials 	Positive → Positive	 Realized improvement in raw material margins throughout Metal Sector by utilizing Hibi Smelter (Tamano city, Okayama Prefecture)
precious metals	 Reduce costs by improving operations and investing more judiciously 	Positive → Positive	Control fixed repair costs through more judicious capital investment
Mineral resources	 Explore new mining opportunities in Huanzala and Pallca 	Positive → Neutral	Started feasibility study. In process of obtaining mining permit



Metals Segment (1) - DX Initiatives (Hachinohe Smelting)

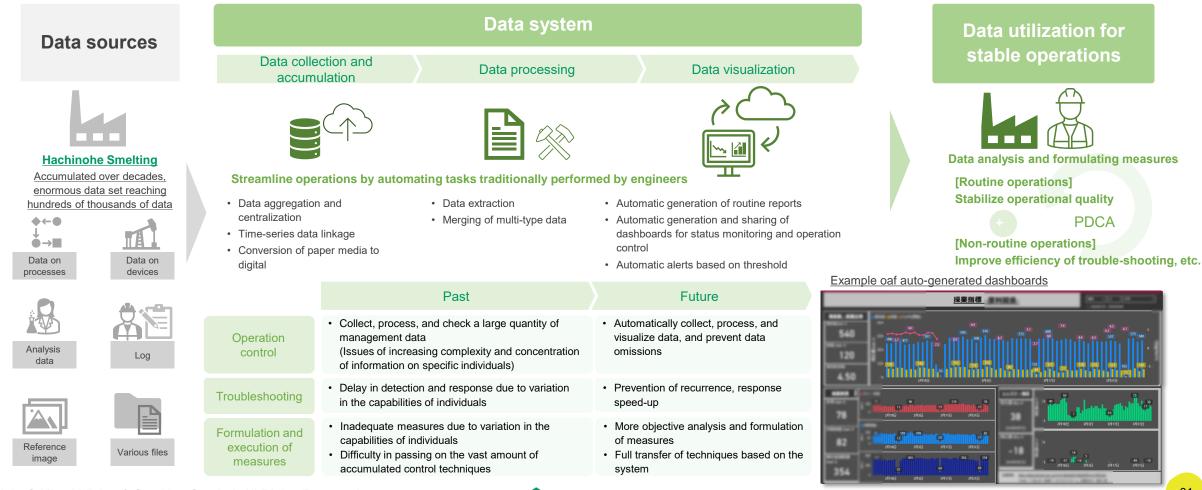
Financial value improvement Value Reinforcement/Optimization

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As part of our company-wide DX initiatives, set **Hachinohe Smelting** as the model of DX initiatives. **Improved operational efficiency** by implementing digitization for facility management and operational data sharing/utilization. Under planning of further Data utilization for stable operations as well as **application to other business locations**



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MITSUI KINZOKU

Metals Segment (2) - Smelting Network Deepening

Financial value improvement Value Reinforcement/Optimization

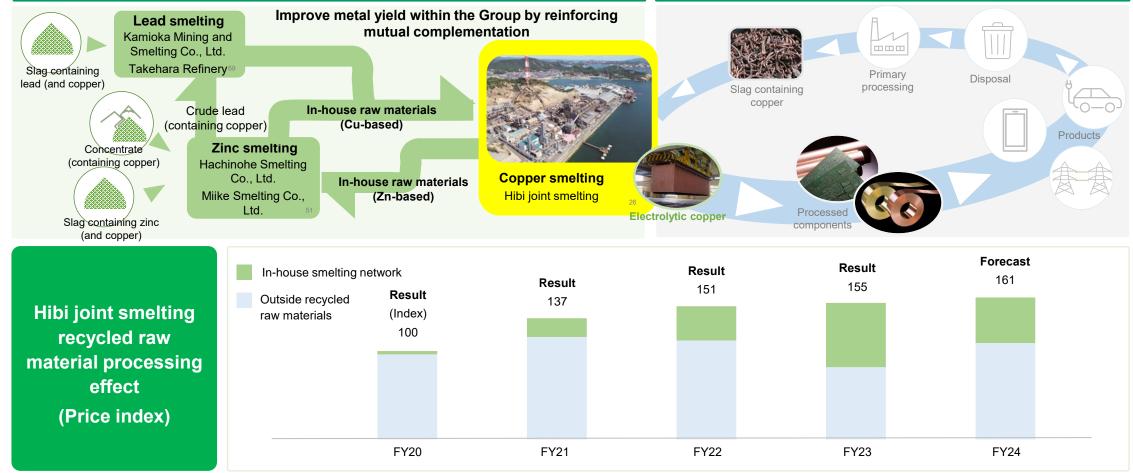
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We are working on **improving raw material margins** across the Group through disposal of raw materials and intermediate smelting products (recycled raw materials) utilizing our smelting network of zinc, lead and copper

Utilizing our smelting network of zinc, lead and copper (internal)

Contribution to building a recycling-based circular society (outside)



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Metals Segment (3) - CO₂ Capture and Separation Demonstration Test in Hachinohe Smelting

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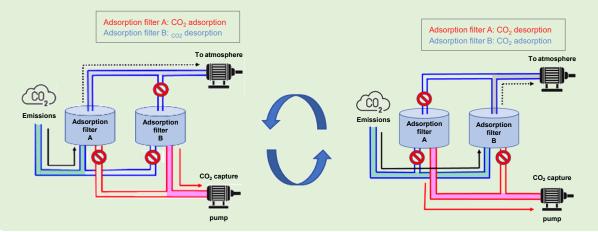
We aim to develop and demonstrate technologies for CO_2 capture and separation from factory exhaust gases with CO_2 adsorbent developed by Business Creation Sector.

Conducted demonstration test at Hachinohe Smelting in April 2024 and obtained good results for practical application in 2030 and beyond



CO₂ separation and capture system

Adopt VSA (vacuum swing adsorption) system with CO_2 adsorbent newly developed by our company. Alternately adsorb and desorb CO_2 through two parallelized adsorption filters



Small size CO₂ separation and capture equipment (exterior)

Completed production of small size CO_2 separation and capture equipment. Installed the equipment at **Hachinohe Smelting** and conducted demonstration test to separate and capture CO_2 from smelting furnace gas emitted at the smelter in April 2024

Adsorption filter A Adsorption filter B

Financial value improvement

Value Reinforcement/Optimization



[Features]

- High adsorption/desorption capacity (Shorter cycle time)
- Low energy consumption to capture CO₂ (Lower running costs)

[Result]

- Confirmed CO₂ capture rate of approximately 90%
- Similar result to the test with the model gas in our research institute





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

Financial value improvement Value Reinforcement/Optimization through a spirit of exploration and diverse technologies.



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

	Major strategies of 2022-2024 Mid-Term Plan	Evaluation	Progress
Mobility Sector	 Explore and realize business synergies (short/medium/long term) Develop and promote new business in response to changes in the business environment 	$FY22 \rightarrow FY23$ Positive \rightarrow Positive	 Working on synergy expansion through best practice development including production process improvement and cost reduction methods (Neutral) Promoting sales expansion by utilizing sales channels and market information (Positive)
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 	Positive → Positive	 Introduced MI *and started operation. Promoting DX for development/manufacturing/finance (Positive) Medium term: Prior development to comply with new regulations, focusing on catalysts for motorcycles (Positive) Long term: Reduced development of catalysts for four-wheeled vehicles and shift in development to environmentally friendly products (Positive)
Mitsui Kinzoku ACT	 Strengthen competitiveness of cost and quality by deepening global optimum production and smart factory Aim to transform into a system supplier by focusing on the development and sales expansion of electric system products 	Neutral → Neutral	 Implementing business restructuring in response to changes in the business environment in China and Japan (Positive) Plan and implement restructuring measures for business in North America (Neutral) Accelerate development of electric door system products in Japan, U.S., and China markets (Neutral) Electric Frunk Lock: Selected by a Japanese manufacturer as a leading developer
Die- casting	 Business restructuring and generation of appropriate profits 	Neutral → Negative	 Create sales/technology synergies as a consolidated company (Neutral) Currently working to expand product sales for EVs (Neutral) Unachieved cost improvement in Nirasaki area (Negative) Promoting use of external knowledge in addition to synergy initiatives by consolidating Kamioka and Nirasaki

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*Materials Informatics

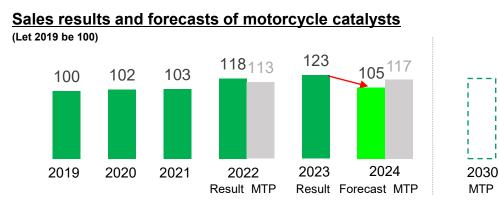
Catalyst - Trends in Sales Volume for Motorcycles and Automobiles

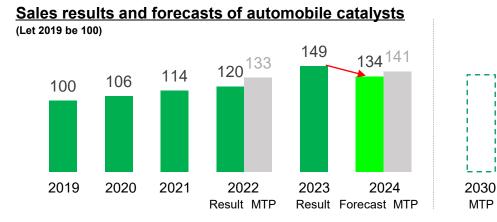
Financial value improvement Value Reinforcement/Optimization through a spirit of exploration and diverse technologies.



For motorcycles, **increased sales** in Southeast Asia and South America in FY2023. For automobiles, **did not achieve the original plan** in FY2024 despite **contribution** of GPF* sales.

Collaborating with Business Creation Sector for developing environmentally friendly products in order to **create new businesses that contribute to CN** based on exhaust gas catalyst technology in the long run





FY2022/23 sales volume

- Sales in Southeast Asia and South America increased over plan
- · Temporary increase in orders received in India in FY2023
- FY2024 sales volume
 - Competition expected to escalate in India
- Future Strategy
- Maintain market share by complying with new regulations in each country and by complying with precious metal regulations (50% global market share)
- FY2022/23 sales volume
 - Lower sales than planned due to shortage of semiconductors in FY2022
 - Sales strong in the U.S. and India, despite weak sales in China in FY2023
- FY2024 sales volume
 - Market shrink due to accelerated electrification. The China market in particular is quickly shifting
- Future Strategy
 - While continuing to develop technologies to meet the next regulations of each country and to save precious metals, we will focus on developing environmentally friendly products in collaboration with Business Creation Sector

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Mitsui Kinzoku ACT - Expand Sales of Electric Door Systems

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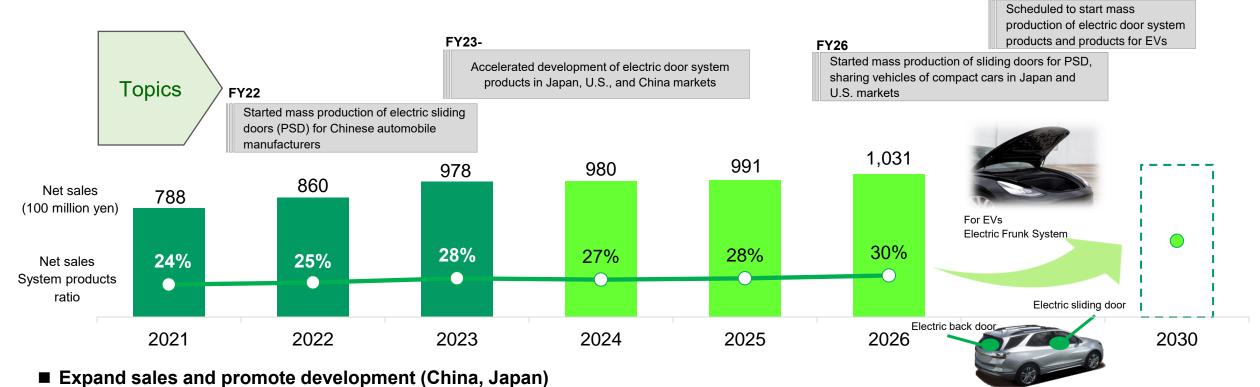
Financial value improvement Value Reinforcement/Optimization through a spirit of exploration and diverse technologies.

FY28-



Increase the sales composition of high-value-added electric door system products in response to the expansion of electrification and automation of doors

Electric door system products and products for EVs



China: Increased development staff to respond to product expansion* for Chinese automobile manufacturers *Scheduled to start mass production of new product (door lock) (FY2025)

• Japan: Continuously strengthen corporate units structure (development/sales) to expand sales and promote development of electric door system products



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Appendix







	2019-2021 Mid-Term Plan			2022-2024 Mid-Term Plan					
	FY2019 Results	FY2020 Results	FY2021 Results	FY2022 Results	FY2023 Results	FY2024 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	646.7 billion yen	640.0 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	44.5 billion yen	35.0 billion yen		40.0 billion yen	60.0 billion yen
Real income	20.8 billion yen	38.6 billion yen	57.6 billion yen	26.7 billion yen	45.1 billion yen	30.7 billion yen		41.4 billion yen	62.0 billion yen
Net income attributable to owners of parent	1.6 billion yen	44.8 billion yen	52.1 billion yen	8.5 billion yen	26.0 billion yen	22.0 billion yen		29.0 billion yen	44.0 billion yen
Free cash flow	1.3 billion yen	11.2 billion yen	35.1 billion yen	11.4 billion yen	40.4 billion yen	10.0 billion yen		15.0 billion yen	(85.0 billion yen)
Capital Investment	34.0 billion yen	28.2 billion yen	27.5 billion yen	32.5 billion yen	32.0 billion yen	38.0 billion yen		46.0 billion yen	(117 billion yen)
ROE	0.9%	24.6%	23.8%	3.5%	9.8%	7.7%		11.4%	14.0%
Equity ratio	30.7%	33.4%	37.6%	40.1%	43.5%	44.3%		41.0%	50.0%
Net D/E ratio	1.22	1.09	0.82	0.76	0.60	0.57		0.71	0.42
(Assumption)									
Zinc price (\$/t)	2,405	2,420	3,254	3,332	2,479	2,700		3,700	3,000
Exchange rate (Yen/\$US)	108.8	106.1	112.4	135.5	144.6	145.0		120.0	120.0

*Figures in parentheses are three-year totals



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