June 14, 2024



# VISION 2030 Business Strategy Presentation

Life & Healthcare Solutions

**Mobility Solutions** 

**ICT Solutions** 

**Basic & Green Materials** 

Business Sector President
TANAKA Hisayoshi

Business Sector President KOMORIYA Atsushi

Business Sector President **HIRAHARA Akio** 

Business Sector President **IZAWA Kazumasa** 

## **0→1 MAKE IT HAPPEN**



## VISION 2030 Business Strategy Presentation Life & Healthcare Solutions

## **TANAKA** Hisayoshi

田中 久義 Managing Executive Officer, Business Sector President, Life & Healthcare Solutions Business Sector

June 14, 2024



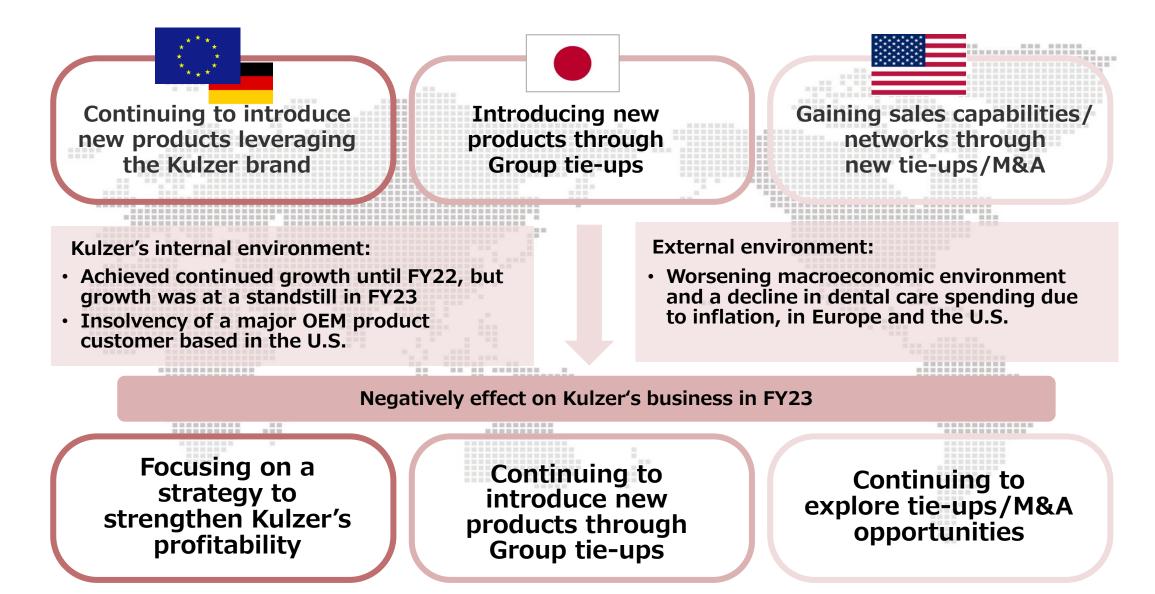
### Providing solutions that contribute to life, health and comfortable lifestyles as our first pillar of earnings

$(1D)(h_{2})$	Current state of businesses toward achieving VISION 2030 goals Explained in CEO presentation		
(JPY bn) 90.0 CAGR FY19-24 20%	Vision care Stable business growth; increased MR <sup>™</sup> capacity; expanded portfolio via the acquisition of Coburn	Agrochemical products Expanded pipeline via the acquisitic of Meiji Seika Pharma's agrochemic Expanding overseas business for gr	als business
	Oral care Delayed business growth	<b>Nonwovens</b> Established Mitsui Chemicals Asahi	Life Materials
36.0 23.1 <sup>24.9</sup> 29.2 <sup>30.0</sup> 14.8	Environmental changesOverall: Stable market growth due to population growth and aging, greater health consciousness and demand for a stable food supply Nonwovens:Nonwovens:Worsening competitive environment for hygiene materials and sluggish ICT-related demand		
	Key priorities/direction		
FY19 FY20 FY21 FY22 FY23 FY24 FY30 Outlook Target	Speeding up growth by investing further resources in growth businesses and turning around low- profitability businesses Vision care: Accelerating business growth in key markets and pursuing next phase of capacity increase / Expanding the coating materials and equipment business		
■ Life care ■ Wellness ■ Medical			
ROIC 9% 8% 7% 6% 7% 13%	Agrochemical products: Expanding business by registering growth driver products in more countries and leveraging our active ingredientsOral care: Drastically strengthening Kulzer's profitability		
Rose Value <sup>™</sup> FY24 <b>76</b> %→FY30 <b>85</b> %	Growing sales of new products in key markets (Europe, Japan, U.S.) through further collaboration among Group companies		
	Nonwovens: Pursuing synergies from integration by bolstering and expanding industrial materials, as well as by optimizing production setups Personal care: Bolstering the biochemicals business		
	<b>Medical business:</b> Promoting collaboration and strengthening partnerships with our investee and partner companies in the orthopedic surgery, examination and diagnosis sectors		



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Focusing on a strategy to strengthen Kulzer's profitability based on the current business environment

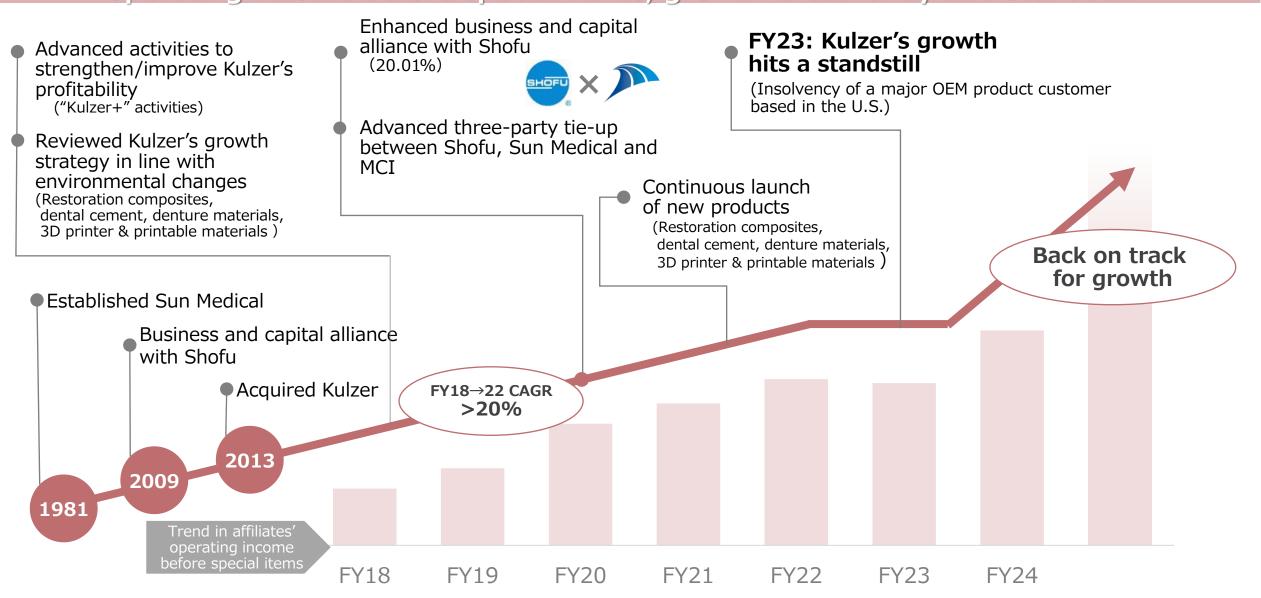


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Medical: Oral Care



While our affiliates have been steadily increasing operating income before special items, growth is currently at a standstill

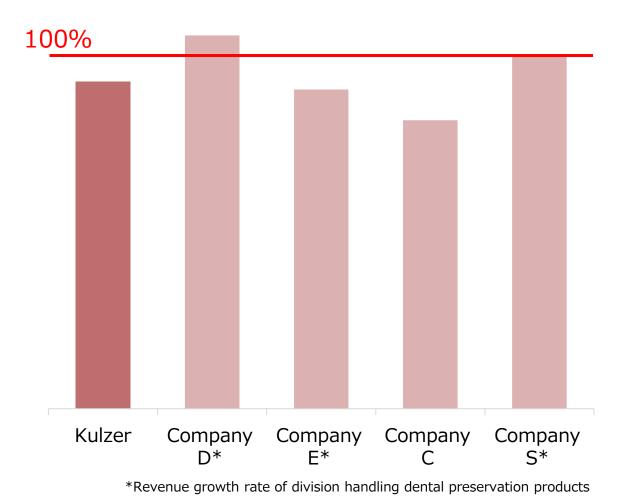




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Dental material manufacturers across the board faced a growth standstill as a result of the external business environment in FY23

<u>YoY revenue growth rate of major Western</u> <u>dental material manufacturers (2023)</u>



Dental care spending down in Europe and the U.S. due to the impact of inflation

Limited new investments in dental clinics in Europe and the U.S. due to worsened macroeconomic conditions

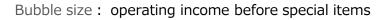
Companies' revenue impacted by cybersecurity issue at major global distributor of dental materials Sales

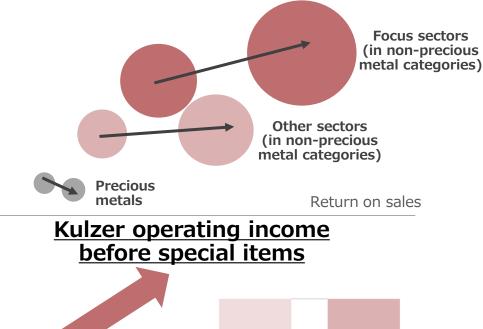
revenue

Medical: Oral Care

## Drastically strengthening profitability by growing sales in focus sectors and optimizing costs

#### Growth Image by Kulzer product category (FY23→FY26)







## **Strategy to strengthen Kulzer's profitability**

### Sales growth in focus sectors

- Launching new products with high return on sales
- $\rightarrow$  Concentrating investment of R&D resources & further collaboration among Group companies to speed up launch new products onto the market

#### Product launches in FY23

- Restoration composites launched in European & U.S. markets
- Dental cement & bonding launched in Japanese market
- Increased sales of 3D printers & printable materials through business partnership with Japan's leading comprehensive dental care trading company

### Cost optimization through structural improvement

- Reducing costs via e.g. manufacturing process rationalization
- Further rationalization by reducing number of products

\* Focus sectors :

Restoration composites, dental cement, denture materials, 3D printer & printable materials



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## Some of our new product launches in focus sectors (for 2023)

### Europe/U.S.

### Venus Pearl PURE (restoration composites)



Enables color matching with a patient's teeth using only a limited number of colors to make for more convenient treatment



ZEN Universal Cement & Bond (dental cement)



Japan



A user-friendly product that meets the needs of dentists by providing improved adhesive strength and a reduction in the number of tasks required during procedures



Joint development by Mitsui Chemicals Dental Group

Group-wide product development making use of MCI's monomer design and development technology, Sun Medical's product development capabilities and Kulzer's brand

### <u>Accuprint 3D 4.0 Pro/</u> <u>3D materials</u> (3D printer & printable materials)





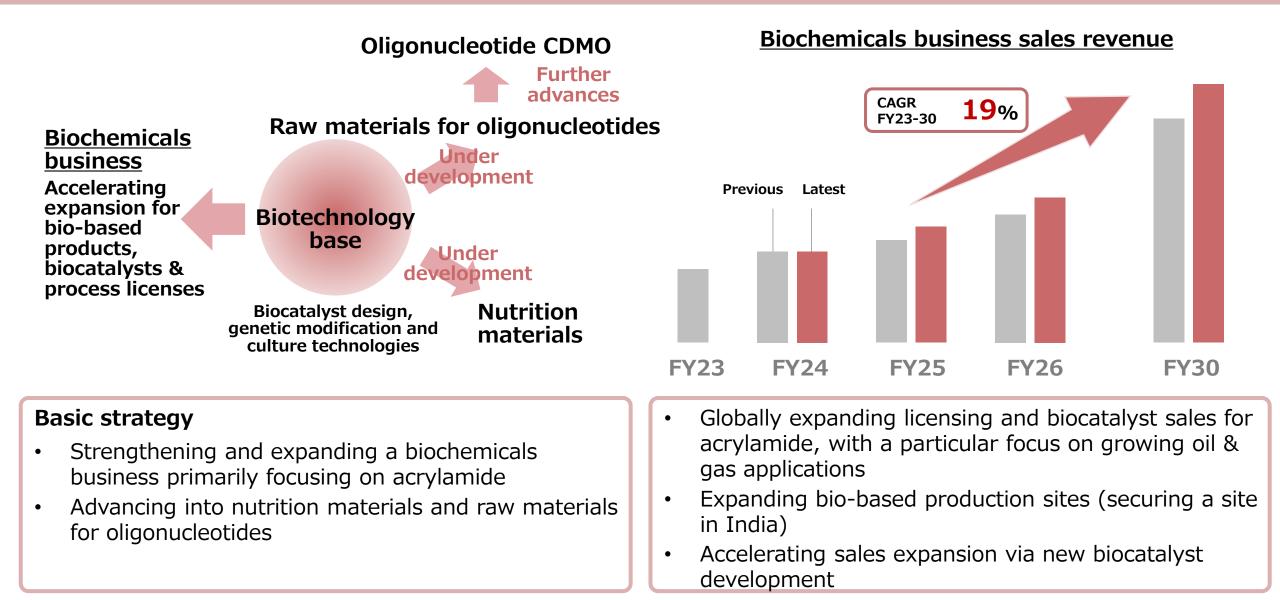
A specialized intelligent printer designed for the swift, easy creation of dental products



Increased sales of 3D printers & printable materials through business partnership with Japan's leading comprehensive dental care trading company



### Using our biotechnology base to accelerate the growth of our biochemicals business



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小守谷 敦

## VISION 2030 Business Strategy Presentation Mobility Solutions

## **KOMORIYA Atsushi**

Managing Executive Officer Business Sector President, Mobility Solutions Business Sector

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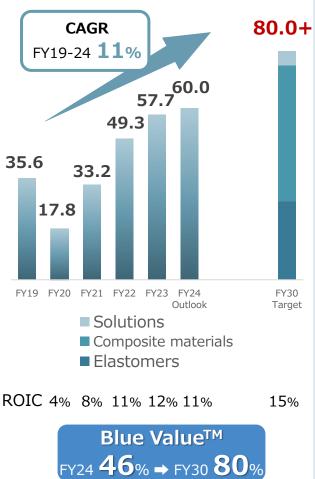


Pursuing Business Portfolio Transformation Mobility Solutions



### Providing unique materials, features and services to help solve social challenges and let us achieve sustainable business growth

(JPY bn)



#### **Underlined :** Explained in CEO presentation Current state of businesses toward achieving VISION 2030 goals **Blue: Covered today TAFMER<sup>™</sup> & compound products** Steady and timely Sales transition to a focus on growth investment in growth fields markets and differentiation TAFMER<sup>™</sup>, PP compounds, ADMER<sup>™</sup>, LUCANT<sup>™</sup>, MILASTOMER<sup>™</sup>, etc. **Environmental changes** Recovery in automotive production volumes Rise of Chinese OEM companies **Renewable energy market growth** Competitors opening new & additional facilities **Key priorities/direction** Aiming to exceed our targets by steadily implementing our basic strategy while deftly navigating environmental changes Pursuing expansion of our strong materials business Strengthening our solutions business Setting up new business models without delay Further speeding up our sales transition to a focus on growth markets and differentiation Stabilizing and further boosting earnings at Making full use of PP compound production sites and strengthening ARRK collaborative efforts leveraging them Cultivating new products and next-gen pillars of earnings

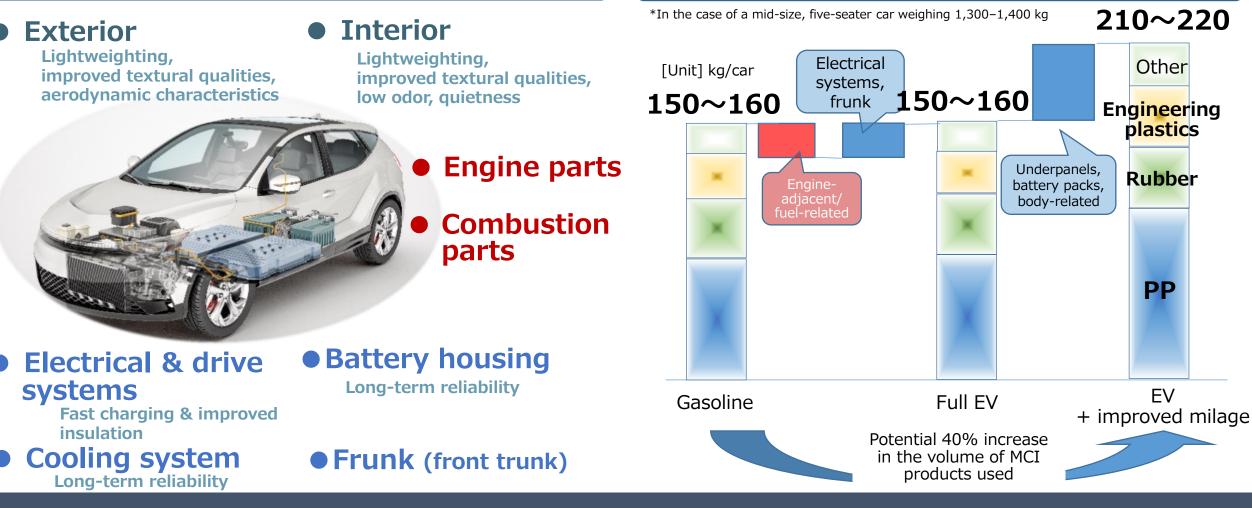


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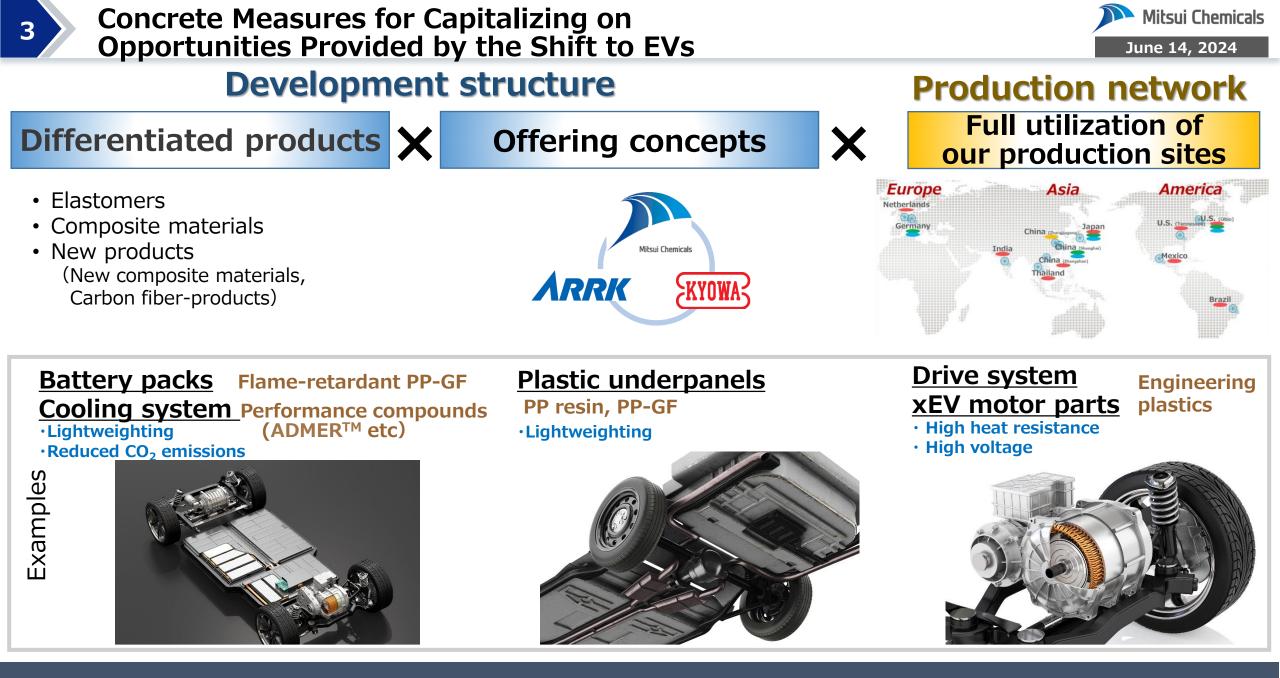
Plastic consumption by powertrain type

### The growing trend toward EVs is expected to drive an increase in the use of plastic products

### Changes in plastic products amid the trend toward EVs



Focus on developing materials and solutions that can capture EV-specific needs

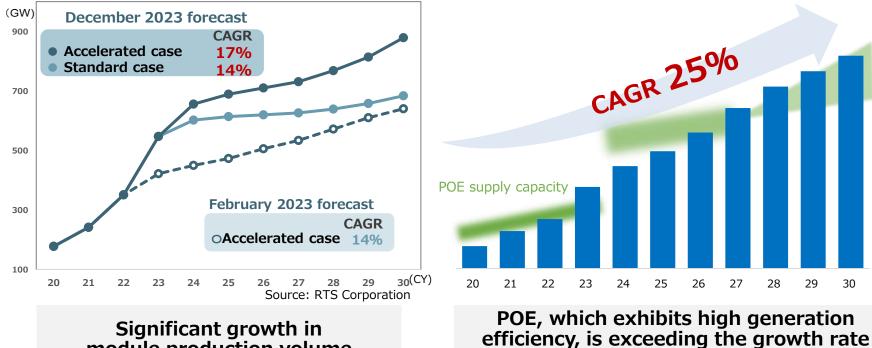


Making full use of MCI's assets in an effort to expand offerings for EVs

## State of the Market for Solar Cell Encapsulant Materials



## Production volume of solar power modules



module production volume

#### Supply & demand over time for POE used as an encapsulant material



POE, which exhibits high generation

for module production volume

#### Supply-side trends

Until approx. 2023:

Supply unable to keep up with surging demand, resulting in a shortage

Medium term (2024–2026):

New facilities from various companies leading to a surge in supply capacity MCI: 2025 operational launch Korean/Chinese manufacturers: Operational launches starting 2024

Long term:

Enough supply for growing demand

#### **Temporary oversupply** beginning 2024

Measures going forward	Sales	<ul> <li>Efforts to locally produce modules for local consumption (India, the West)</li> <li>Building relationships and growing sales via joint development with customers and end users (battery manufacturers, power generation companies, etc.)</li> <li>Securing MCI rights that make use of intellectual property rights</li> </ul>
	Development	<ul> <li>Development of differentiated grades (improved productivity, better sealant performance, etc.)</li> </ul>

As a leader in POE, we are getting in ahead of new market entrants to secure growing market opportunities

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## VISION 2030 Business Strategy Presentation ICT Solutions

## **HIRAHARA** Akio

平原 彰男 Senior Managing Executive Officer Business Sector President, ICT Solutions Business Sector

June 14, 2024



Pursuing Business Portfolio Transformation ICT Solutions



### Creating and growing a "unique" ICT Solutions business to grow operations here into our third pillar of earnings





## **Semiconductor & Assembly Solutions**

Circuit

transcription

chip

Interposer

substrate



**Front-end Exposure** 

#### **Investment in next-gen EUV pellicle** manufacturing facility

For completion in 2025 (at Iwakuni-Ohtake Works)

### **CNT**\* pellicles

ASML

World's only

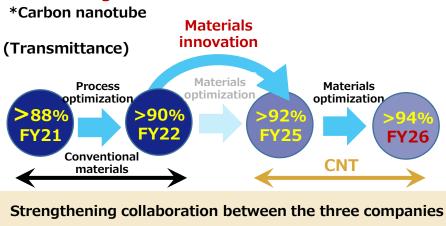
manufacturer

of EUV

lithography

equipment

#### Facilitating prompt commercialization by accelerating materials innovation



Mitsui Chemicals

World's

top pellicle

manufacturer

Ability to

develop CNT

pellicle

technology

unec

International

semiconductor

research

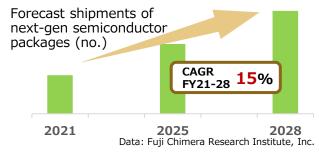
institution

Research leader in the

field of CNT pellicles

### **Back-end**

#### Investment in SHINKO ELECTRIC INDUSTRIES

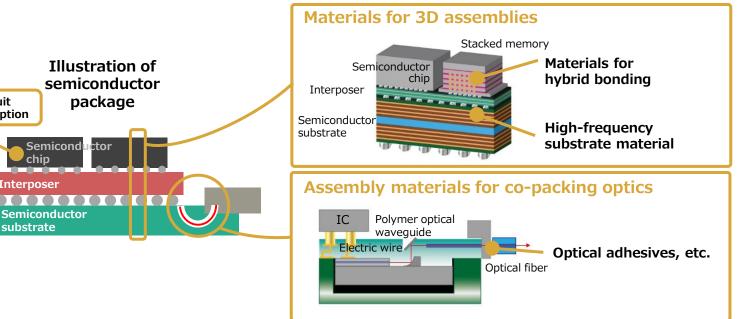


#### Acquisition of process compatibility evaluation capabilities

Assembly

Helping to achieve higher speeds and lower power consumption by accelerating development of materials for next-gen semiconductor packages

Examples of materials for next-gen semiconductor packages



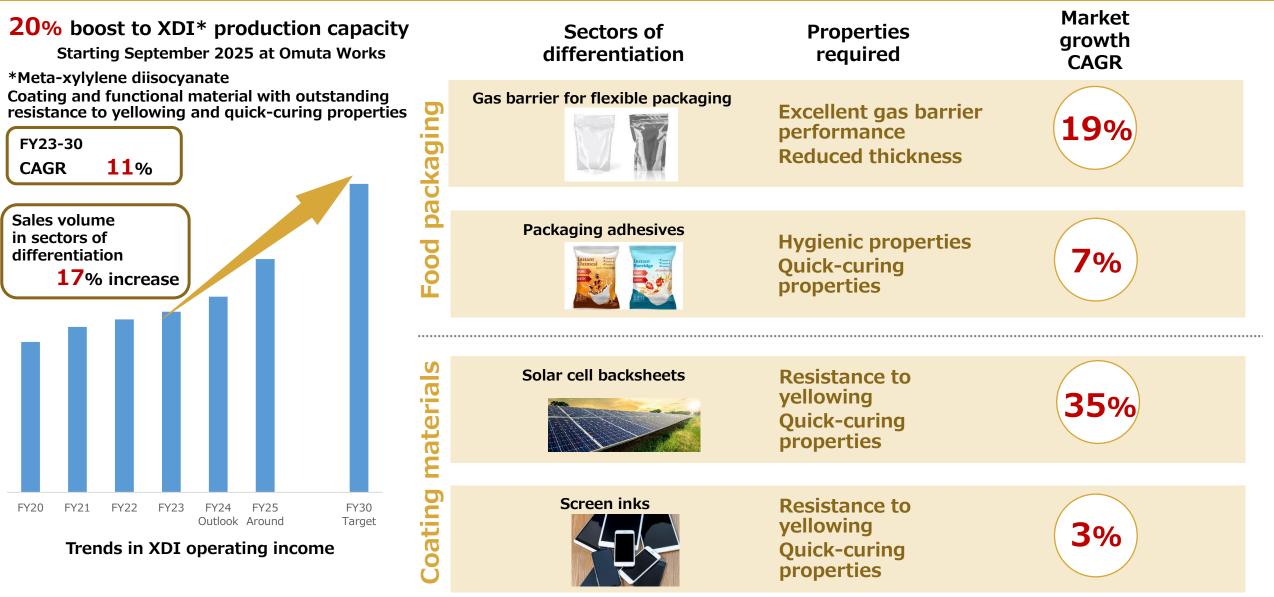
Helping to deliver more advanced semiconductors by being the first into cutting-edge markets

**Converting Solutions** 

3

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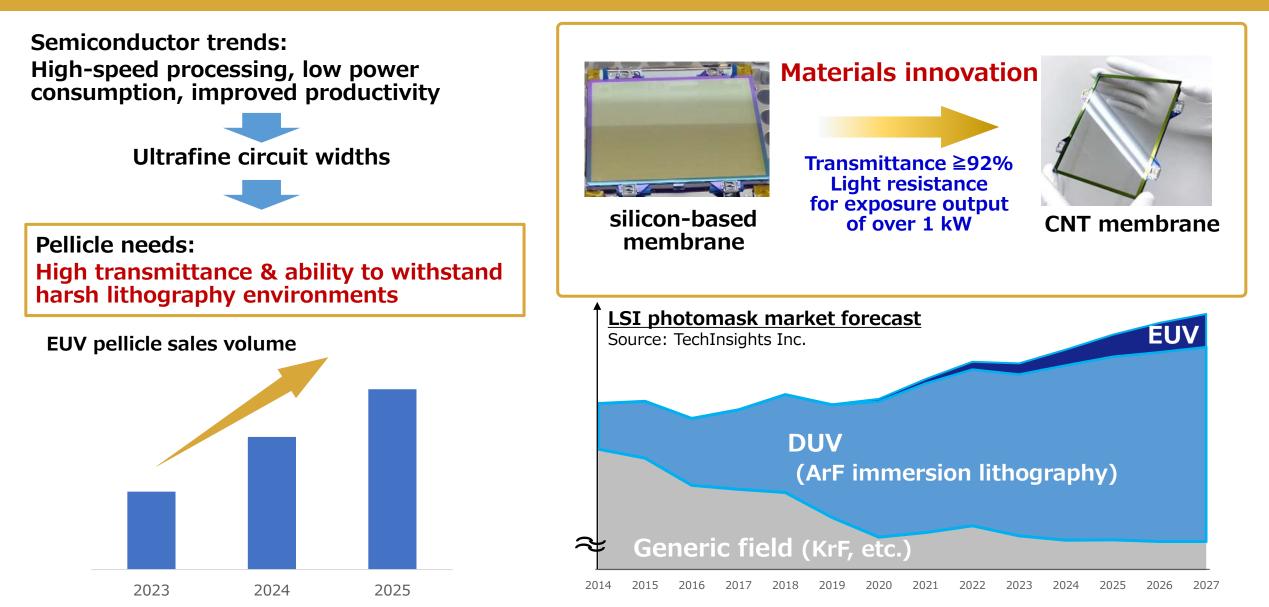
### Increasing profit by means of capacity expansion and sales transition to sectors where we can differentiate ourselves







## **Developing CNT pellicles to be used in next-gen lithography**



## Semiconductor & Assembly Solutions ICROS<sup>™</sup> TAPE



June 14, 2024

Expanding the scope of our business by strengthening our ability to offer solutions to customers in the semiconductor & assembly field

**Back grinding** 

## Expanding the scope of business for ICROS<sup>™</sup> TAPE

5

- Optimizing design & production for substrate film and adhesives
- Enabling low contamination for wafer surfaces
- Leveraging precise control over tape thickness to enhance our ability to offer solutions to customers

Dicing



### Expanding supply capacity for ICROS<sup>™</sup> TAPE

 Carrying out factory expansions in response to market growth and increased demand



Nagoya

Molding



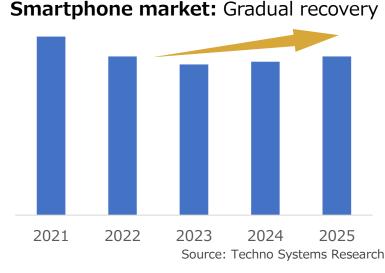
Taiwan (Operational launch: January 2020)



**Taiwan** (second term) (Operational launch: FY24) Imaging Solutions APEL<sup>™</sup>

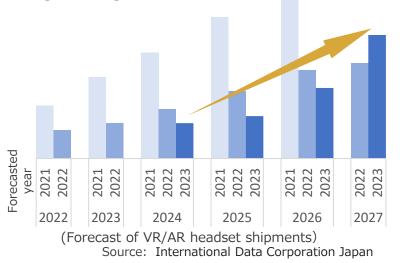


### Speeding up development for new applications to advance business restructuring



6

## VR/AR market: Delayed startup, but long-term growth



#### **Smartphone camera lenses**

Multi-lens designs trending downward after peaking in 2021

 $\rightarrow$  Dual- and triple-lens designs the norm since 2022

Further growth in the high-resolution camera market amid trends to wide-angle and long-distance photography  $\rightarrow$  APEL<sup>TM</sup>'s low birefringence helping out

### Smartphone



### **VR/AR devices**

Development speeding up amid device popularization

#### **Automotive devices**

New needs driven by the increasing number of sensors, cameras and displays

 $\rightarrow$  Speeding up the marketing of new products

### VR/AR devices



### Heads-up displays (HUD)



### Automotive camera lenses

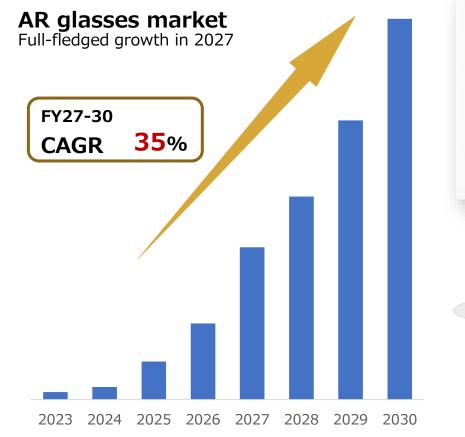


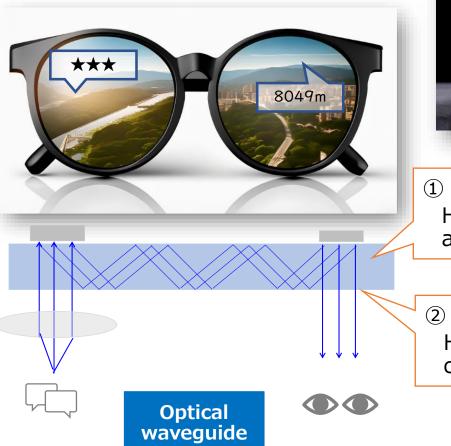
Imaging Solutions Diffrar

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## Novel optical polymer wafer Diffrar<sup>™</sup> developed for growing AR market

- Helping give users of AR glasses a wide field of view and clear images by offering a wafer with excellent optical properties such as ① a high refractive index (>1.63) and ② an exceptionally flat surface
- Contributing to the safety (impact resistance) and lightweighting of AR glasses





Lineup: 3–8 inches
 World's first 8-inch optical polymer wafer made for AR glasses
 3-inch 6-inch 8-inch

High refractive index
 Helps give images on AR glasses
 a wide field of view

2 Exceptional flatness
 Helps make images on AR glasses
 clear

## **0→1 MAKE IT HAPPEN**



## VISION 2030 Business Strategy Presentation Basic & Green Materials

## **IZAWA Kazumasa**

伊澤 一雅 Senior Managing Executive Officer Business Sector President, Basic & Green Materials Business Sector

June 14, 2024



## FY24 Basic Policies for Achieving VISION 2030

## Second Phase of Restructuring

Optimization of the Phenol Business Narrowing Down to Competitive Derivatives Collaborating With Other Companies on Crackers

Approach to Reforming Our Product Portfolio

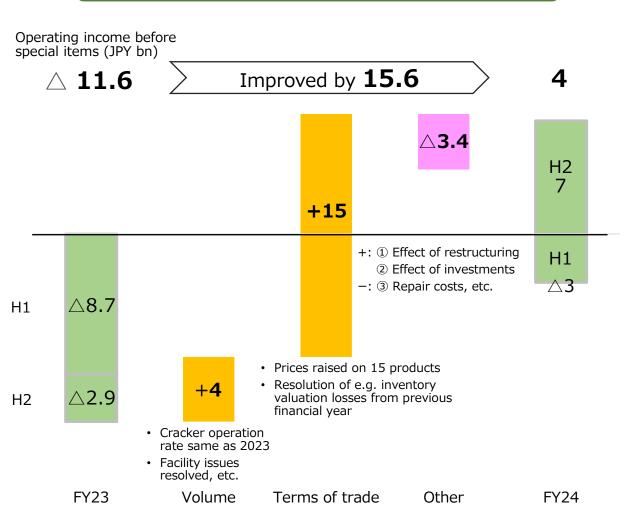
## FY24 Basic Policies for Achieving VISION 2030

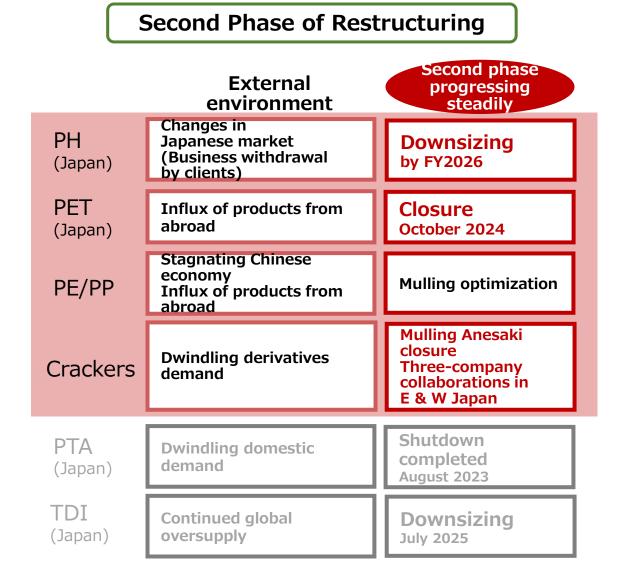


 As part of our push for portfolio reform, we are aiming to further reduce volatility by accelerating our second-phase restructuring efforts, including the creation of an optimal production setup for our crackers.

Reducing volatility: profitability in FY24

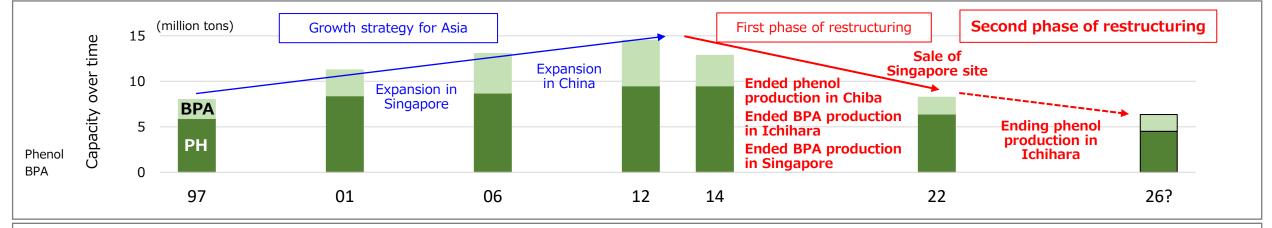
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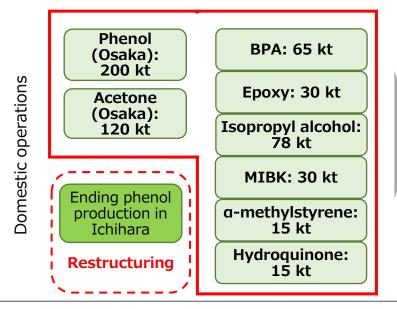
### Second Phase of Restructuring Optimization of the Phenol Business

- Mitsui Chemicals June 14, 2024
- Restructuring has been ongoing since 2014, but our second phase of restructuring will see us close a phenol plant in Ichihara by 2026, going down to one domestic phenol plant.
- Building a highly capital-efficient phenol chain that provides essential materials at optimal scale.



MCI's domestic phenol chain

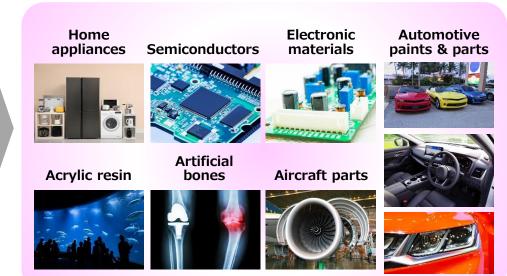
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#### **Customer products**

Phenolic resinsPolycarbonateMMAAutomotive paintsBPS → Polyethersulfone (PES)Electric/electronic materialsHeat-resistant ABSAgrochemicalsPEEK resinResorcinolFlame retardantsSurfactantsPlywood adhesivesToner resinsAntioxidants

#### End products/applications



Second Phase of Restructuring Narrowing Down to Competitive Derivatives



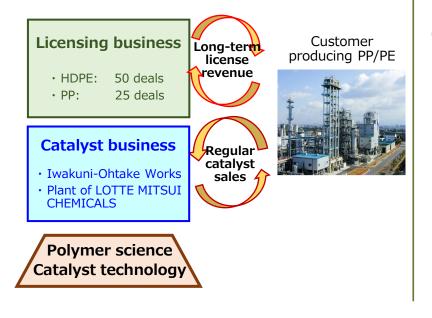
- High-performance products (already invested): high-performance PP (high rigidity, high fluidity), high-performance MDI (for limiting vibration, noise etc. in EVs)
- Also evaluating the future potential of other derivatives based on **ROIC**, economic security and synergy with other products

### **Capital efficiency**

3

#### Licensing & catalyst businesses

Securing rising demand from developing and other nations to make for businesses with long-term stability

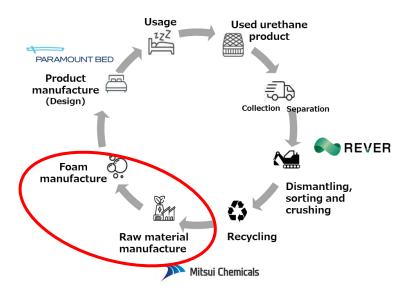


#### Environmental value

#### Polyurethane recycling business

Monetizing economic value via the implementation of chemical recycling technology in society

Chemical recycling of bed mattresses (a demonstration project under the Ministry of the Environment)



### **Economic security**

#### Urea → AdBlue<sup>™</sup>

An essential material for the maintenance of domestic logistics infrastructure

AdBlue<sup>m</sup>: An advanced urea solution for selective catalytic reduction. Breaks down NOx emitted by diesel engines into hydrogen and water.

MCI's offering here has a low level of impurities, minimizing engine clogging.





\*AdBlue is a trademark of the VDA (Verband der Automobilindustrie).

Derivatives that create no added value and are exposed to price competition from imports are considered as targets for MCI's move to a more asset-light structure over time Second Phase of Restructuring

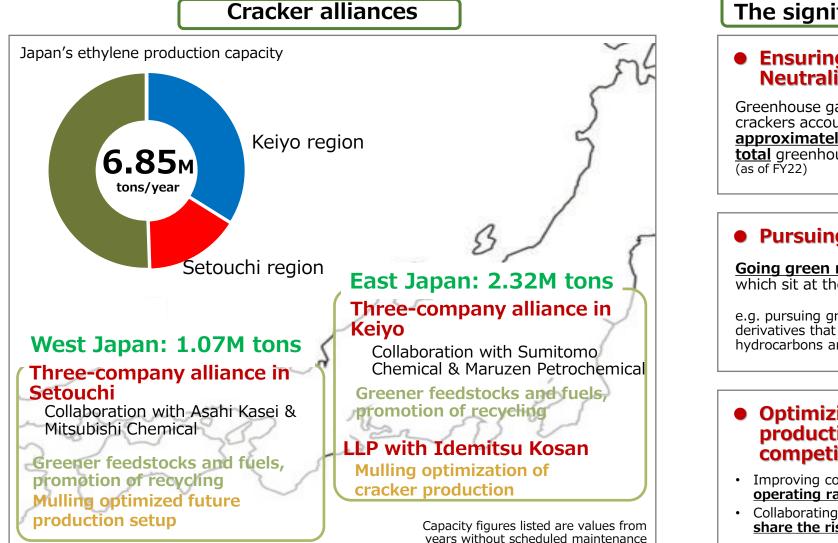
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Collaborating With Other Companies on Crackers

陷 Mitsui Chemicals

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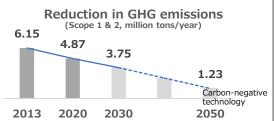
- Aiming to get ahead of the rest of the world by creating new carbon-neutral crackers through alliances with other companies
- Pursuing three projects as we look to settle on a grand design for the future of our crackers in 2024–2025



### The significance of carbon-neutral crackers



Greenhouse gas emissions from crackers account for <u>approximately 25% of MCI's</u> <u>total</u> greenhouse gas emissions (as of FY22)



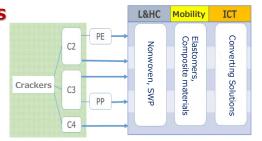
### • Pursuing green chemicals

**<u>Going green right from crackers</u>**, which sit at the top of the chain

e.g. pursuing growth for mass balance derivatives that utilize bio-based hydrocarbons and pyrolysis oil

#### Optimizing facilities and production to create competitive crackers

- Improving costs by <u>increasing</u> <u>operating rates</u>
- Collaborating with other companies to share the risks of major investments

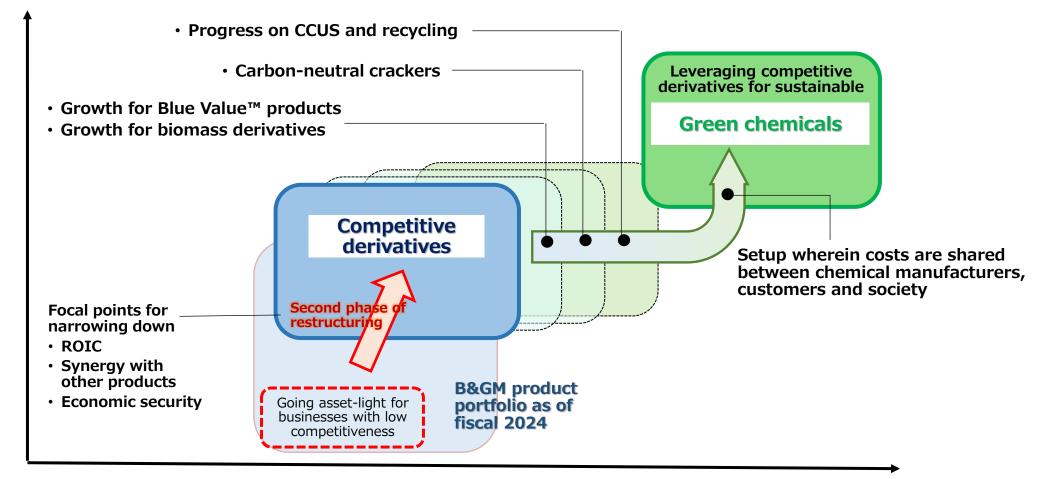


B Domestic ethylene production volume (million tons/year) Need to address decrease in operating rate 0 07 09 11 13 15 17 19 21-23

## Approach to Reforming Our B&GM Product Portfolio



- Pursuing stakeholder appreciation of our purpose and value, and transitioning to a highly capital-efficient business setup, as we strive for a sustainable green chemicals business centered around competitive derivatives
- Aiming to get core operating income before special items into the black for fiscal 2024 before targeting 20 billion yen as the next step



### **Carbon neutrality**

5

A global solutions company that leads change and contributes to a sustainable future



### Chemistry for Sustainable World



## Challenge Diversity One Team

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