

# VISION 2030 Business Strategy Presentation

Life & Healthcare Solutions	Business Sector President  TANAKA Hisayoshi
Mobility Solutions	Business Sector President  KOMORIYA Atsushi
ICT Solutions	Business Sector President HIRAHARA Akio
Basic & Green Materials	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

# **Life & Healthcare Solutions**

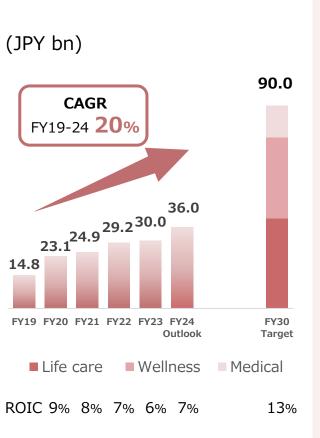
Mitsui Chemicals June 14, 2024

Explained in CEO presentation

**Underlined:** 

**Blue: Covered today** 

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



Rose Value<sup>TM</sup> FY24 **76**%→FY30 **85**%

## Current state of businesses toward achieving VISION 2030 goals

Vision care

Stable business growth; increased MR<sup>TM</sup> capacity; expanded portfolio via the acquisition of Coburn

Oral care

Delayed business growth

**Agrochemical products** 

Expanded pipeline via the acquisition of Meiji Seika Pharma's agrochemicals business Expanding overseas business for growth drivers

**Nonwovens** 

Established Mitsui Chemicals Asahi Life Materials

changes

**Environmental** Overall: Stable market growth due to population growth and aging, greater health consciousness and demand for a stable food supply

> Worsening competitive environment for hygiene materials and sluggish Nonwovens: ICT-related demand

> > **Key priorities/direction**

Speeding up growth by investing further resources in growth businesses and turning around lowprofitability businesses

**Vision care:** Accelerating business growth in key markets and pursuing next phase of capacity increase / Expanding the coating materials and equipment business

**Agrochemical products:** Expanding business by registering growth driver products in more countries and leveraging our active ingredients

**Oral care:** Drastically strengthening Kulzer's profitability

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

**Medical business:** Promoting collaboration and strengthening partnerships with our investee and partner companies in the orthopedic surgery, examination and diagnosis sectors



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



Continuing to introduce new products leveraging the Kulzer brand



Introducing new products through Group tie-ups



Gaining sales capabilities/ networks through new tie-ups/M&A

### Kulzer's internal environment:

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- Achieved continued growth until FY22, but growth was at a standstill in FY23
- Insolvency of a major OEM product customer based in the U.S.

#### **External environment:**

 Worsening macroeconomic environment and a decline in dental care spending due to inflation, in Europe and the U.S.

## Negatively effect on Kulzer's business in FY23

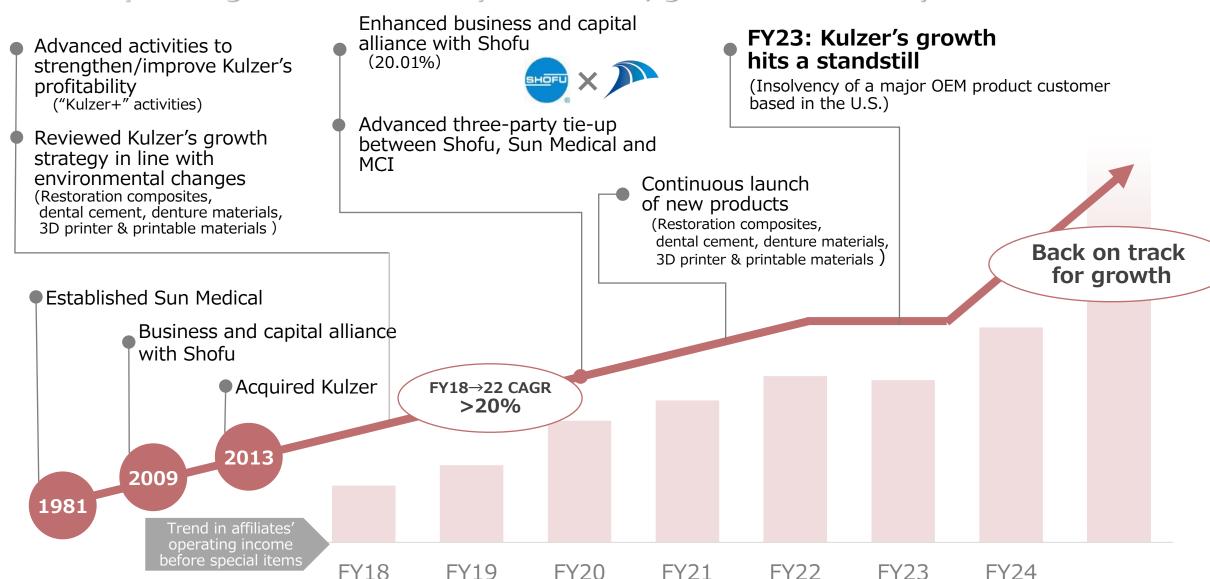
Focusing on a strategy to strengthen Kulzer's profitability

Continuing to introduce new products through Group tie-ups

Continuing to explore tie-ups/M&A opportunities



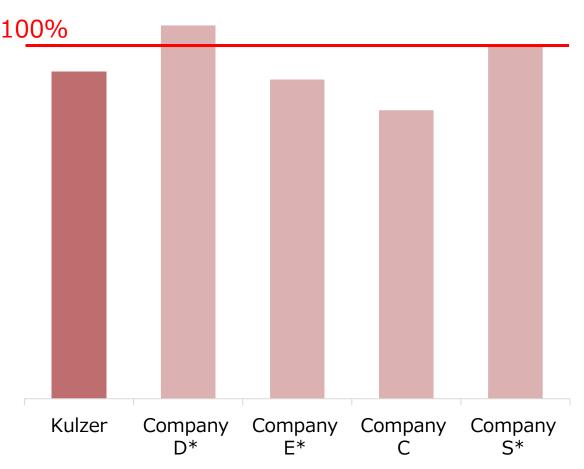
# While our affiliates have been steadily increasing operating income before special items, growth is currently at a standstill





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

# YoY revenue growth rate of major Western dental material manufacturers (2023)



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

<sup>\*</sup>Revenue growth rate of division handling dental preservation products

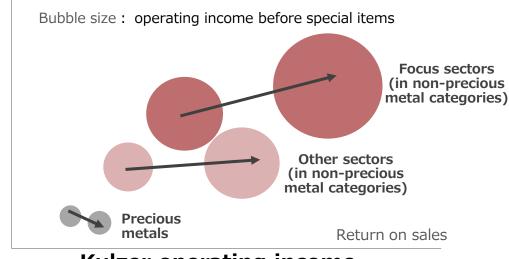
Sales

revenue

# **Medical: Oral Care**

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

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



# Kulzer operating income before special items



# Strategy to strengthen Kulzer's profitability

## Sales growth in focus sectors

- Launching new products with high return on sales
- → 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

# 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



leveraging the Kulzer brand

Japan

# ZEN Universal Cement & Bond (dental cement)





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

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





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

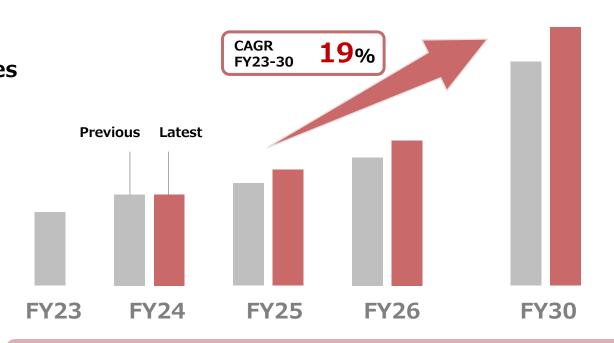


Increased sales of 3D printers & printable materials through business partnership with Japan's leading comprehensive dental care trading company

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

#### **Oligonucleotide CDMO Further** advances Raw materials for oligonucleotides **Biochemicals** Under business development **Accelerating** expansion for **Biotechnology** bio-based base products, Under biocatalysts & development process licenses **Nutrition** Biocatalyst design, genetic modification and materials culture technologies





## **Basic strategy**

- Strengthening and expanding a biochemicals business primarily focusing on acrylamide
- Advancing into nutrition materials and raw materials for oligonucleotides
- Globally expanding licensing and biocatalyst sales for acrylamide, with a particular focus on growing oil & gas applications
- Expanding bio-based production sites (securing a site in India)
- Accelerating sales expansion via new biocatalyst development

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# VISION 2030 Business Strategy Presentation Mobility Solutions

# **KOMORIYA Atsushi**

小守谷 敦

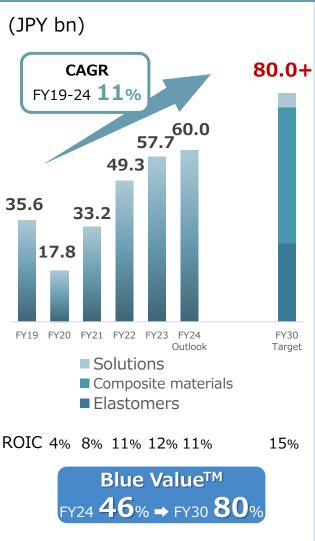
Managing Executive Officer Business Sector President, Mobility Solutions Business Sector



Explained in CEO presentation

June 14, 2024

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



## Current state of businesses toward achieving VISION 2030 goals

## **TAFMER™** & compound products

Sales transition to a focus on growth markets and differentiation

# **Steady and timely**

investment in growth fields

TAFMER™, PP compounds, ADMER<sup>TM</sup>, LUCANT<sup>TM</sup>, MILASTOMER<sup>TM</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

Further speeding up our sales transition to a focus on growth markets and differentiation

Making full use of PP compound production sites and strengthening collaborative efforts leveraging them

Cultivating new products and next-gen pillars of earnings

## Strengthening our solutions business

**Underlined:** 

**Blue: Covered today** 

Setting up new business models without delay Stabilizing and further boosting earnings at **ARRK** 

# Opportunities for Product Growth Capitalizing on the Trend Toward EVs



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

Exterior

Lightweighting, improved textural qualities, aerodynamic characteristics Interior

Lightweighting, improved textural qualities, low odor, quietness



- **Engine parts**
- Combustion parts

Electrical & drive systems

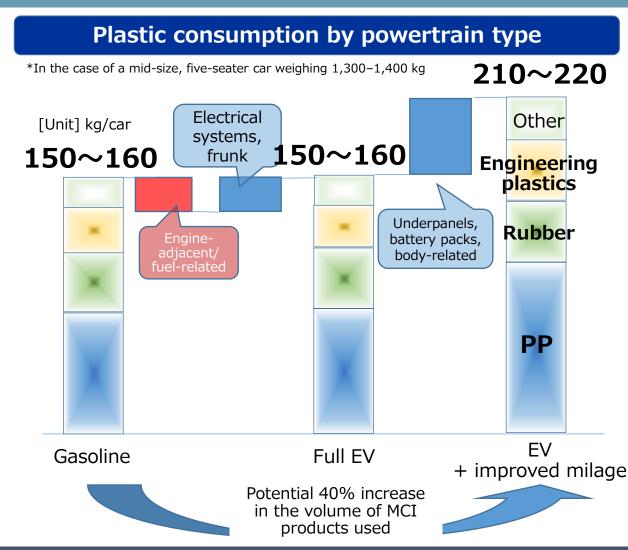
Fast charging & improved insulation

Cooling system
 Long-term reliability

Battery housing

Long-term reliability

• Frunk (front trunk)



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

# **Concrete Measures for Capitalizing on Opportunities Provided by the Shift to EVs**



# **Development structure**

# **Differentiated products**



# **Offering concepts**



# **Production network**

Full utilization of our production sites



- Elastomers
- Composite materials
- New products (New composite materials, Carbon fiber-products)



## **Battery packs**

Flame-retardant PP-GF

**Cooling system** Performance compounds **Lightweighting** (ADMER™ etc)

·Reduced CO<sub>2</sub> emissions

Examples



## **Plastic underpanels**

PP resin, PP-GF

·Lightweighting



## **Drive system xEV** motor parts

**Engineering** plastics

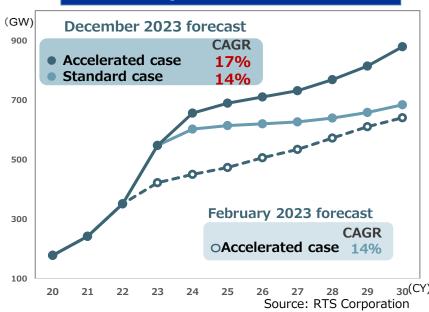
- · High heat resistance
- High voltage



# State of the Market for Solar Cell Encapsulant Materials



# Production volume of solar power modules

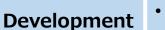


Significant growth in module production volume

## Measures going forward

## Sales



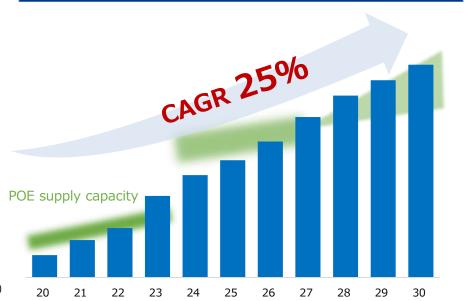




- Building relationships and growing sales via joint development with customers and end users (battery manufacturers, power generation companies, etc.)
- Securing MCI rights that make use of intellectual property rights

Development of differentiated grades (improved productivity, better sealant performance, etc.)

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



POE, which exhibits high generation efficiency, is exceeding the growth rate 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

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

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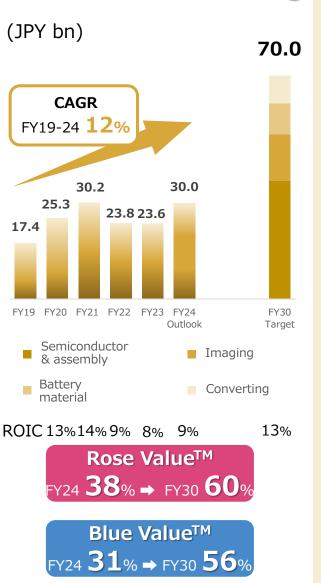


# VISION 2030 Business Strategy Presentation ICT Solutions

## **HIRAHARA Akio**

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

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



## **Current state of businesses toward achieving VISION 2030 goals**

**Pellicle business** Aiming to commercialize CNT pellicles to be used in next-gen EUV lithography

Established Mitsui Chemicals EMS **ICROS™** Tape business Operations started at new facility in Taiwan

Established Mitsui Chemicals ICT Materia; focus on the ICT business **Underlined:** 

Explained in CEO presentation

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**Coating & engineering materials** 

Business expansion that taps into environmental needs

Capacity expansion XDI, PUD

**Environmental** changes

Semiconductor market is recovering from its downturn

Smartphone and XR markets are seeing low growth following a downturn

**Growing demand for new technologies** due to widespread use of generative AI, etc.

#### **Key priorities/direction**

Steadily tapping into growing semiconductor demand, and proactively investing resources in rollout of products into multiple applications and next-gen development, to speed up growth

**Semiconductor & assembly:** Keeping a firm hold on No. 1 position in pellicle market

Augmenting the portfolio of ICROS™ Tape in new areas

Speeding up next-gen materials development by pursuing synergies with SHINKO

**ELECTRIC INDUSTRIES** / Pursuing synergies with Honshu Chemical Industry

**Expanding APEL™ into multiple applications Imaging:** 

**Launching Diffrar™**, a new material for XR applications

Promoting the development of new materials for LiBs **Battery material:** 

**Converting solutions:** Addressing demand for eco-friendly products

# **Semiconductor & Assembly Solutions**

**Exposure** 

Front-end

# Investment in next-gen EUV pellicle manufacturing facility

For completion in 2025 (at Iwakuni-Ohtake Works)

#### CNT\* pellicles Facilitating prompt commercialization by accelerating materials innovation \*Carbon nanotube **Materials** innovation (Transmittance) Materials **Process** Materials ptimization optimization optimization >88% >90% **FY21 FY22 FY26** Conventional **CNT** materials

Strengthening collaboration between the three companies

# **ASML**

World's only manufacturer of EUV lithography equipment 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

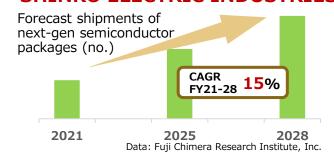
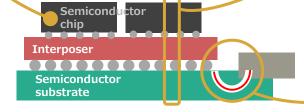


Illustration of semiconductor
Circuit package

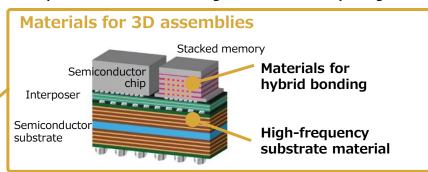


## **Assembly**

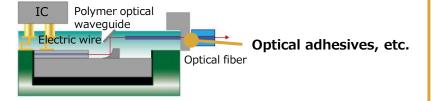
# Acquisition of process compatibility evaluation capabilities

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** 



## Assembly materials for co-packing optics



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

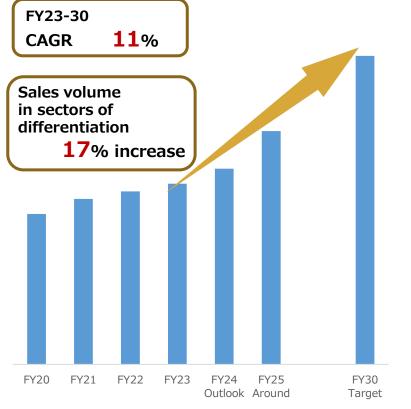
# **Converting Solutions**

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

**20%** boost to XDI\* production capacity
Starting September 2025 at Omuta Works

\*Meta-xylylene diisocyanate

Coating and functional material with outstanding resistance to yellowing and quick-curing properties



Trends in XDI operating income

Sectors of differentiation

Gas barrier for flexible packaging



Properties required

Excellent gas barrier performance Reduced thickness

Market growth CAGR

19%

**Packaging adhesives** 



Hygienic properties Quick-curing properties **7**%

Solar cell backsheets

material



Resistance to yellowing Quick-curing properties

35%

Screen inks



Resistance to yellowing Quick-curing properties

3%

# **Semiconductor & Assembly Solutions EUV pellicle**



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

## **Semiconductor trends:**

High-speed processing, low power consumption, improved productivity

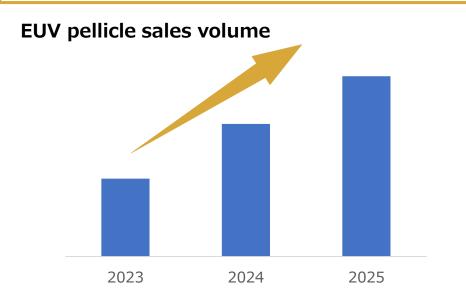


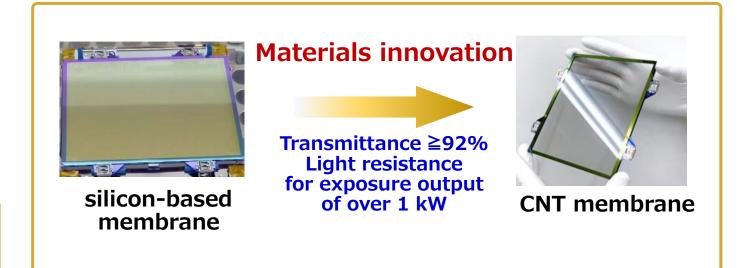
**Ultrafine circuit widths** 

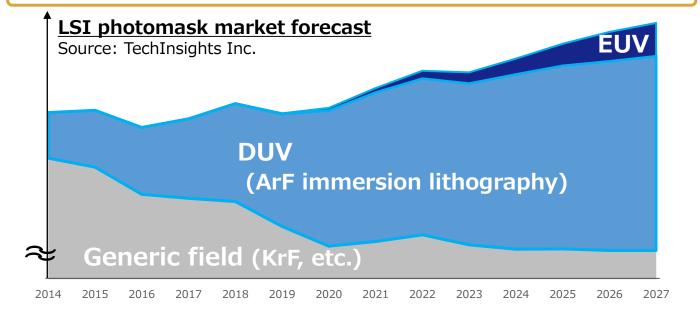


#### Pellicle needs:

High transmittance & ability to withstand harsh lithography environments





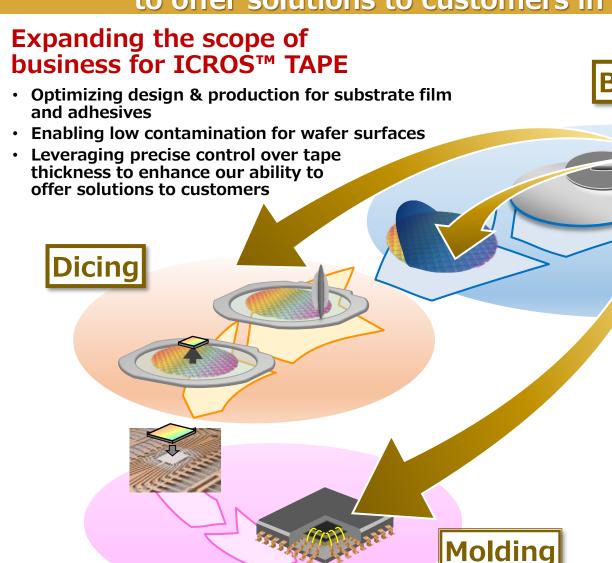


# **Semiconductor & Assembly Solutions** ICROS™ TAPE



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 supply capacity for ICROS™ TAPE**

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



Nagoya



**Taiwan** (Operational launch: January 2020)

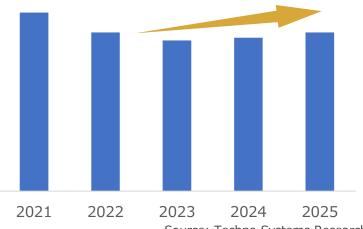


**Taiwan** (second term) (Operational launch: FY24)

# **Imaging Solutions APEL™**

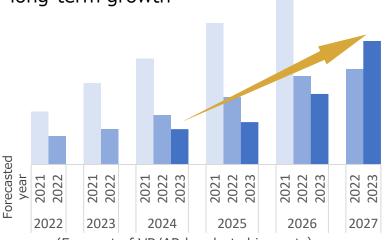
# Speeding up development for new applications to advance business restructuring

### **Smartphone market:** Gradual recovery



Source: Techno Systems Research

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



(Forecast of VR/AR headset shipments)

Source: International Data Corporation Japan

## **Smartphone camera lenses**

Multi-lens designs trending downward after peaking in 2021

→ 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

→ APEL<sup>™</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

→ Speeding up the marketing of new products

## VR/AR devices



Heads-up displays (HUD)



Automotive camera lenses



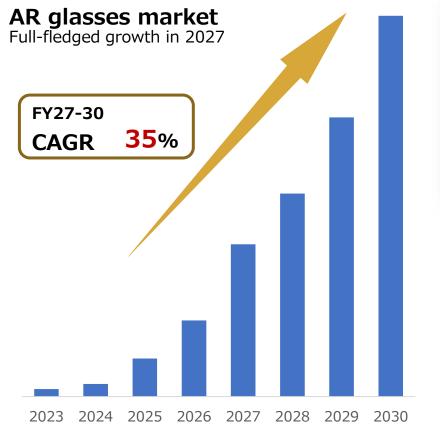
# Imaging Solutions Diffrar





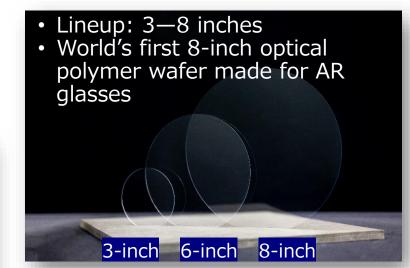
# Novel optical polymer wafer Diffrar™ developed for growing AR market

- 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





**Optical** waveguide



- 1 High refractive index Helps give images on AR glasses a wide field of view
- ② Exceptional flatness Helps make images on AR glasses clear

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# 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 ► 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

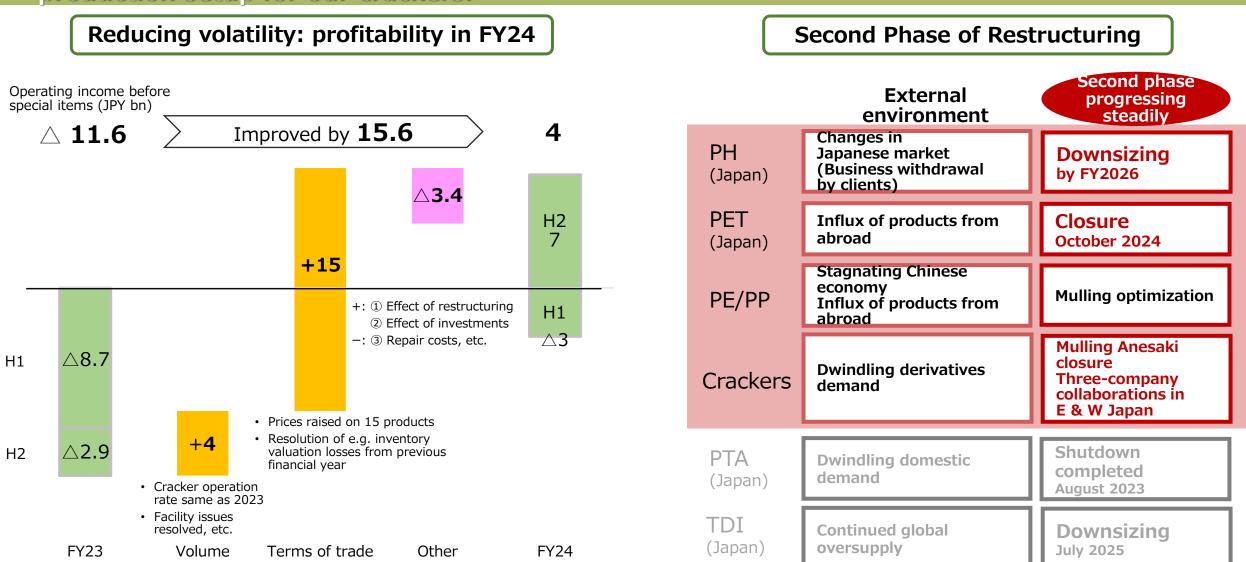
► Approach to Reforming Our Product Portfolio

# **FY24 Basic Policies for Achieving VISION 2030**



June 14, 2024

 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.



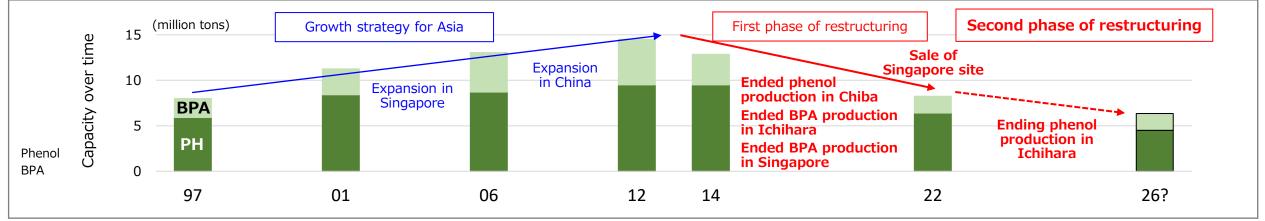
## **Second Phase of Restructuring**

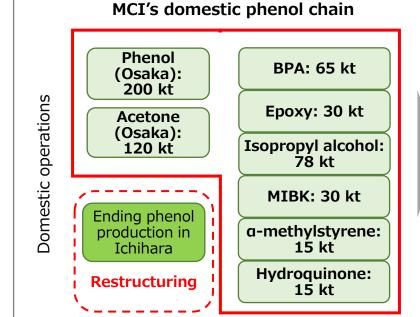
# **Optimization of the Phenol Business**

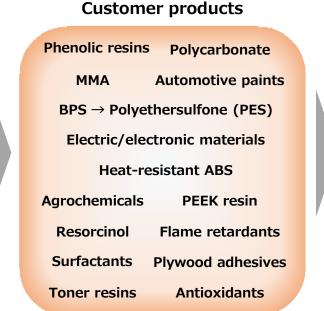
Mitsui Chemicals

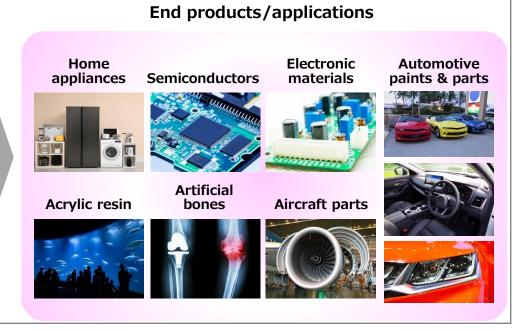
June 14, 2024

- 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.









Customer

producing PP/PE

# **Narrowing Down to Competitive Derivatives**

Mitsui Chemicals

June 14, 2024

- 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**

## **Licensing & catalyst businesses**

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

#### **Licensing business**

· HDPE:

license revenue 50 deals • PP: 25 deals

#### **Catalyst business**

- Iwakuni-Ohtake Works
- Plant of LOTTE MITSUI **CHEMICALS**



Long-term

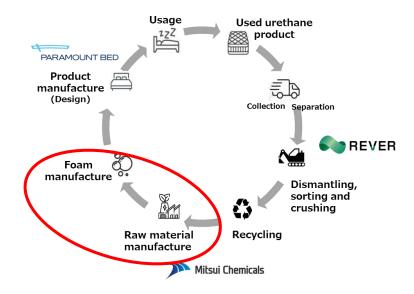
Polymer science Catalyst technology

## **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™: 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**

# **Collaborating With Other Companies on Crackers**

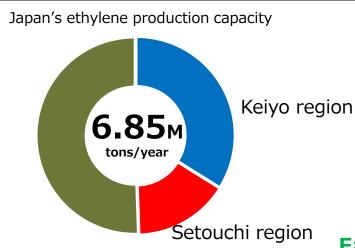
Mitsui Chemicals

June 14, 2024

 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

## Cracker alliances



## West Japan: 1.07M tons

# Three-company alliance in Setouchi

Collaboration with Asahi Kasei & Mitsubishi Chemical

Greener feedstocks and fuels, promotion of recycling

Mulling optimized future production setup

# East Japan: 2.32M tons

# Three-company alliance in Keiyo

Collaboration with Sumitomo Chemical & Maruzen Petrochemical

Greener feedstocks and fuels, promotion of recycling

#### LLP with Idemitsu Kosan

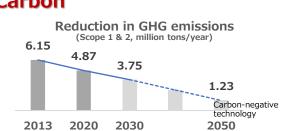
Mulling optimization of cracker production

Capacity figures listed are values from vears without scheduled maintenance

## The significance of carbon-neutral crackers

 Ensuring we fulfill our Carbon Neutrality Declaration

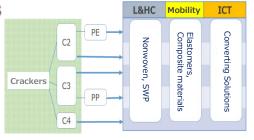
Greenhouse gas emissions from crackers account for approximately 25% of MCI's total greenhouse gas emissions (as of FY22)



## Pursuing green chemicals

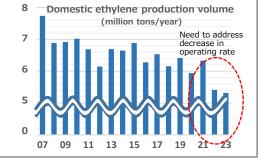
Going green right from crackers, which sit at the top of the chain

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



## Optimizing facilities and production to create competitive crackers

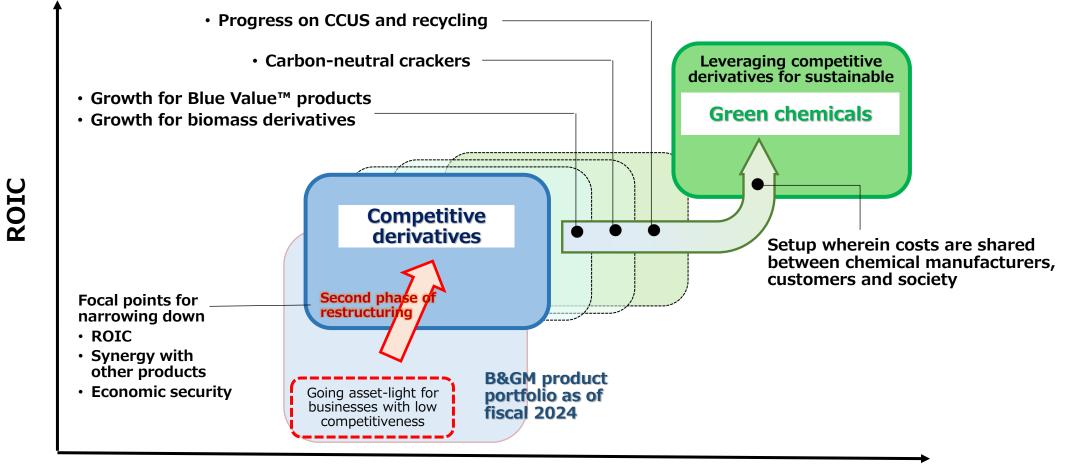
- Improving costs by increasing operating rates
- Collaborating with other companies to share the risks of major investments



# **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** 

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

# 0→1 MAKE IT HAPPEN

## Chemistry for Sustainable World



# Challenge Diversity One Team

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