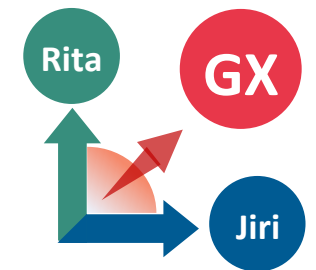


Change and Innovation ~ with the **Power** of Chemistry ~

Sumitomo Chemical IR Day 2022 Winter

December 8, 2022



Section.1 **Status of Initiatives Under the FY22-24
Corporate Business Plan**

Keiichi Iwata, President

Section.2 **Essential Chemicals & Plastics Sector**

Noriaki Takeshita, Senior Managing Executive Officer

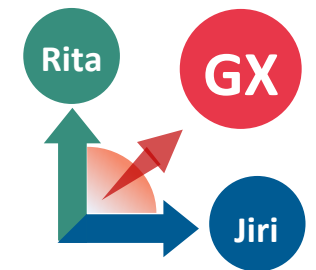
Section.3 **Health & Crop Sciences Sector**

Nobuaki Mito, Senior Managing Executive Officer

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Sumitomo Chemical IR Day 2022 **Winter**

Section.1 Status of Initiatives Under the FY22-24 Corporate Business Plan



01 Further Improve Business Portfolio

**02 Business Performance Forecast
and Financial Strategy**

Actively invest in growth businesses and accelerate decisions on unprofitable businesses

Strengthen businesses Expand



Semiconductor materials

- New US plant for semiconductor chemicals
- New organization for compound semiconductor materials business

Battery components

- Developed soft solid-type batteries

Biorationals

- Expanded facilities at Biorationals Research Center

Next-generation businesses

- Start-up alliances

Carbon Neutral

- Accelerated development in Green Investment Fund businesses

Exit businesses Shrink



Exited caprolactam business

Exited dyestuffs business

Divested US market rights to Brovana* and Xopenex **

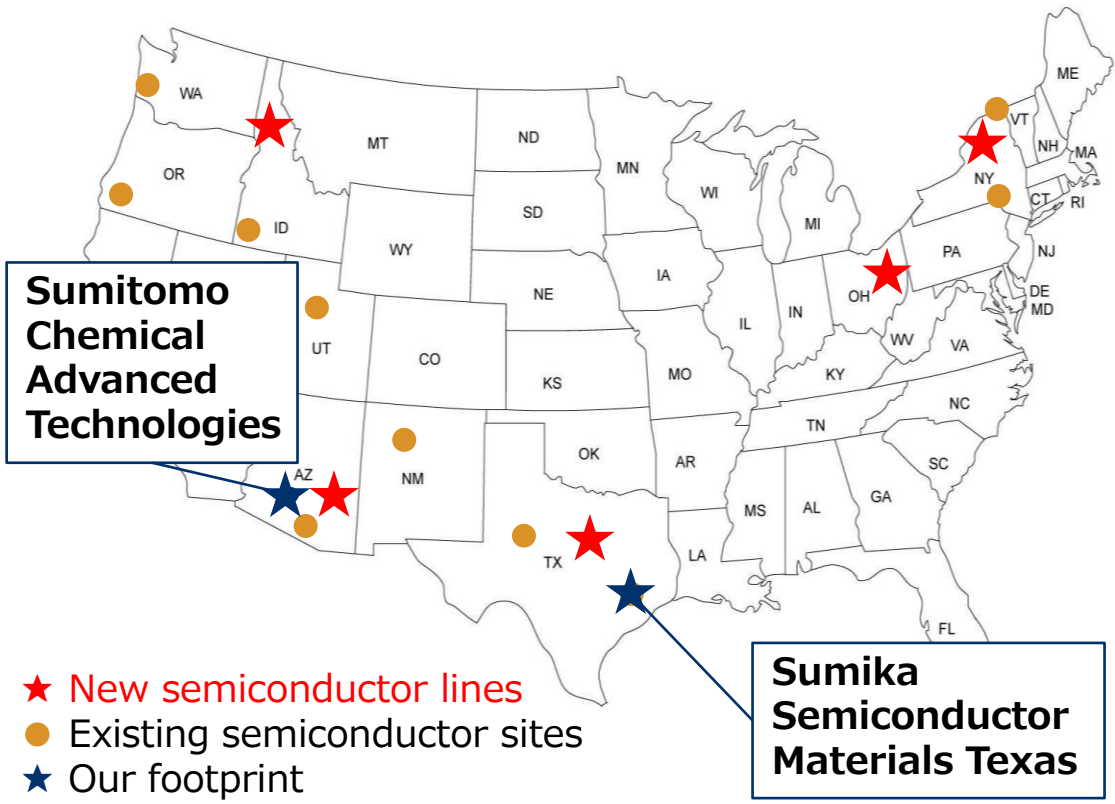
*Chronic obstructive pulmonary disease (COPD) treatment **Asthma treatment

Divested shares in Sumitomo Pharma Food & Chemical

Building a new plant for semiconductor process chemicals near Houston, TX

Background High growth in the semiconductor market and strong demand in the US semiconductor industry coupled with a series of announcements of capacity adds in the US

Locations of major semiconductor players in US



Our strengths

- Global top supplier of major semiconductor chemicals
- Technological strengths in ultra-high purification and trace impurity analysis and their application to quality assurance structure
- Agile supply regime responsive to customer demand

Plant set to launch FY24

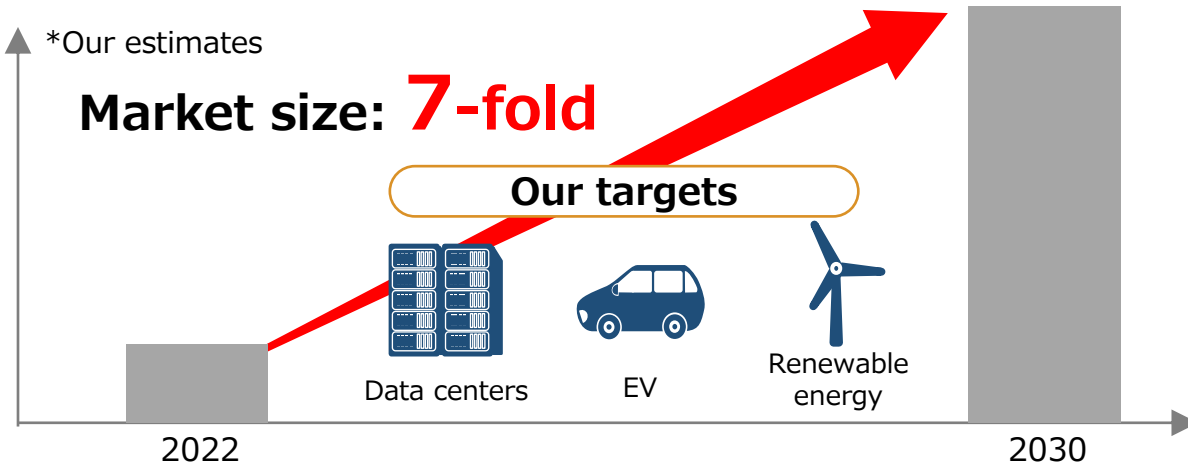
Aim to grow over the medium to long term in the US semiconductor market, which is expected to expand further

01

Bolstering compound semiconductor materials business

Accelerate strengthening of GaN business by concentrating management resources as market ramps up

Compound semiconductor for power devices



Type	Features
SiC	Commercialized. Excels in withstanding voltage.
GaN on Si	Being introduced to consumer electronics applications
GaN on GaN	R&D phase. Expected to outperform other devices in terms of withstanding voltage, operating frequency, size and energy conservation

*GaN = Gallium Nitride

Status of initiatives

Strategy

Establish technology for mass-producing large-wafer GaN substrates for power devices

Progress

2 inch: Substantially improve yield and productivity
4 inch: Improve productivity for full mass production

Strategy

Create a market for GaN on GaN power devices

Progress

Collaboration with power device makers under study
Absorbed a wholly-owned subsidiary SCIOCS

Aim to secure front runner position in rapidly expanding compound semiconductor market

Development of a new material paved the way to success in a **soft solid electrolyte**
Aiming to commercialize in solid-state batteries in 2025

Our history in solid-type batteries

2020

Opened an **industry-academia joint research program** at Kyoto University and installed lab-scale manufacturing equipment and battery performance test equipment

2022

Succeeded in developing a soft solid-type battery

Project participants

40 people

Industry and academia
teamed up to achieve
breakthrough


 住友化学

 京都大学
KYOTO UNIVERSITY

 鳥取大学
Tottori University

Liquid

Lithium ion
Secondary
batteries

Soft

Soft Solid-type
batteries

Solid

Solid-type
batteries

Electrolyte	Challenges	Electrolyte	Progress	Electrolyte	Challenges
Combustible liquid electrolyte	Capacity Charge-Discharge time Safety	Flexible solid electrolyte	<ul style="list-style-type: none"> Greatly reduced battery weight and cost by achieving contact without applying pressure Achieved high-capacity 230Wh/kg Eventual target for EV applications: 500Wh/kg 	Solid electrolyte	Requires pressurized contact between electrolyte and electrode, which increases components weight and cost

Organic growth

Deploying strategic measures to strengthen all areas from manufacturing to sales and R&D

Manufacturing

- Add capacity to existing plant (US)
- Launch formulation plant (Brazil)

R&D

- Launch SynBio research organization
- Collaborate with start ups
- Expand facilities at Biorationals Research Center (BRC)

Sales

- Set up dedicated organization for biorational products at major overseas locations

Biorationals Research Center (Illinois)

Recent achievements

Began sales of plant growth regulator **Accede**

- Fruit thinner* for apples and stone fruits such as peaches
- Registered in US July 2021. Began sales in 2022.
- Brought together knowledge from across the corporate group through a US-Japan joint global project

※ Plant growth regulator that promotes fruit drop and maturation



Equipment expansion

Operations to begin April 2024 (TBD)
Investment: \$25 mn.









- ▶ Equipment expansion added **25%+** to development capacity
- ▶ Now accelerating development of **40+** promising pipeline projects
- ▶ Accelerating development in fields such as biostimulants and new rhizospheric materials

M&A

Fill out biorational product portfolio and expand business footprint

Work with start ups on next-generation foundational technologies and 4 priority areas to promote innovation

Next-Generation Businesses	Technologies we don't have	Partner	Project overview	Progress
Synthetic biology <ul style="list-style-type: none"> □ Develop new cost-competitive processes that contribute to reducing environmental impact □ Develop high-performance materials difficult to chemically synthesize 	Synthetic biology <ul style="list-style-type: none"> ✓ Commercialization and mass production technology ✓ Cutting-edge technology in strain design 	 	Develop high-performance products and high-efficiency processes by integrating synthetic biology with chemical technology	<ul style="list-style-type: none"> ✓ New biorational products under development (achieved interim milestone) ✓ Additional investment in Sweegen under study. Strengthen strategic alliance with line of sight into manufacturing
		 	Develop new products leveraging automation labs and genomics technology	<ul style="list-style-type: none"> ✓ Began joint research of cosmetics material production process using microbial fermentation ✓ Ginkgo Bioworks bought Zymergen. Continue our alliance with the merged entity.
Regenerative medicine & cell therapy	<ul style="list-style-type: none"> ✓ High-performance culturing design technology 		Develop base for cell culturing technology	<ul style="list-style-type: none"> ✓ In April, signed capital and business alliance ✓ Pursuing joint development of culture media for multiple regenerative and cellular medicines
Body condition monitoring	Foundational technologies related to the visualization of body condition		Develop hardware and software for detecting scents	<ul style="list-style-type: none"> ✓ Testing feasibility of intestinal flora sensor in people in Japan ✓ Conducted study on manufacturing technology of a core material in scent sensor

Green Innovation Fund Project

※A fund established to invest a total of 2 trillion yen for up to 10 years in support of ambitious corporate R&D and demonstration projects aimed at achieving carbon neutrality

	Technology	Progress	Development phase	Business scale	
Chemical recycling	Production of olefins by direct decomposition of waste plastics	✓ Confirmed that a certain proportion of olefins could be generated by decomposing waste plastics	*1 *2 All TRL 4 of 8 stages in all	*3 25.3 bn. yen	
	Production of ethanol using synthetic gas derived from waste plastics	✓ Began search for catalysts for producing ethanol through a combination of high-throughput equipment and MI			Phase1
	Efficient alcohol production from CO ₂	✓ Locked in basic design for Internal Condensation Reactor and began fabrication of pilot equipment		Phase0	24.1 bn. yen
	Olefin production from alcohols	✓ Advancing catalyst development and process design for olefin production		Phase0,1	
Batteries	Cathode recycling technology	✓ Confirmed at the lab level that cathode materials could be directly reproduced into cathode materials without returning to metal while maintaining a certain degree of performance		Phase0	Undisclosed
Membrane	Development and demonstration of system for separating and capturing CO ₂	✓ Began development of membrane-based CO₂ separation (material and membrane)		Phase1	5.0 bn. yen
		✓ Built test system for CO₂ separation process using small module			

*1. TRL: Technology readiness levels



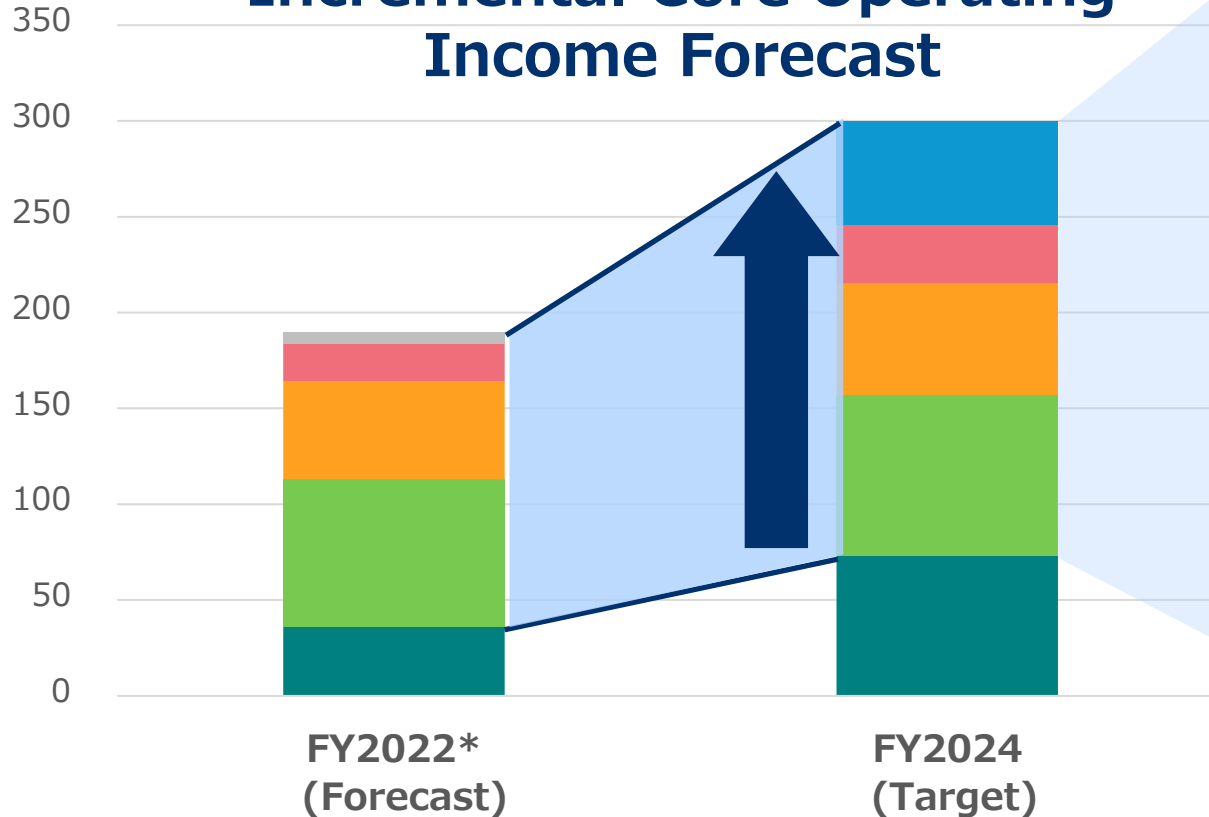
*2. Described in our phase of stage gate management (0-1: incubation phase, 2-3: development and industrialization phase)

*3. Total sum for project (including allocations to other project members as well)

Pharmaceuticals forecast still under review. Nevertheless, we plan to achieve our Corporate Business Plan targets by solidly executing our growth strategy.

(Billions of yen)

Incremental Core Operating Income Forecast



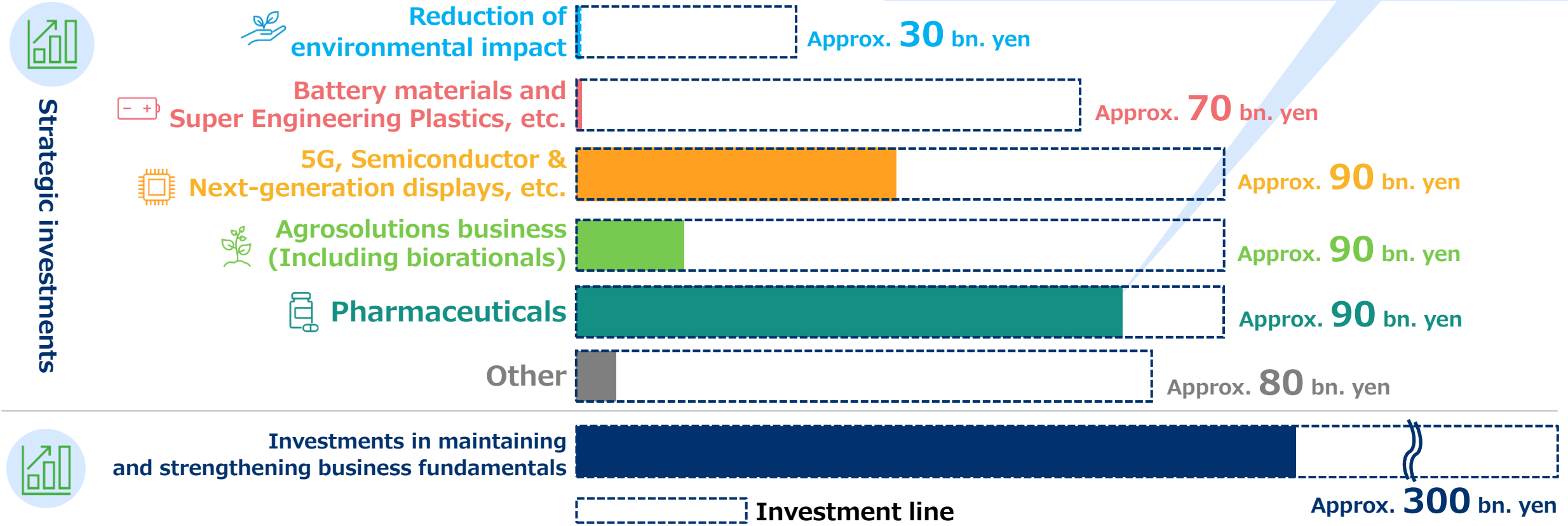
- **EC** Expand catalyst and licensing business
 Improvement of polymer product mix
 Integrate operation between Japan/Singapore
- **EF** Increased capacity and expanded sales in separator
 Increased capacity in super engineering plastics
- **IT** Expand semiconductor materials business
 Establish business in materials related to telecommunications and sensors
 Capture demand for next-generation display materials
- **HC** Expand SA crop protection business
 Expand biorationals business
- **PH** Maximize value of ORGOVYX, GEMTESA and MYFEMBREE

*Released on November 1, 2022

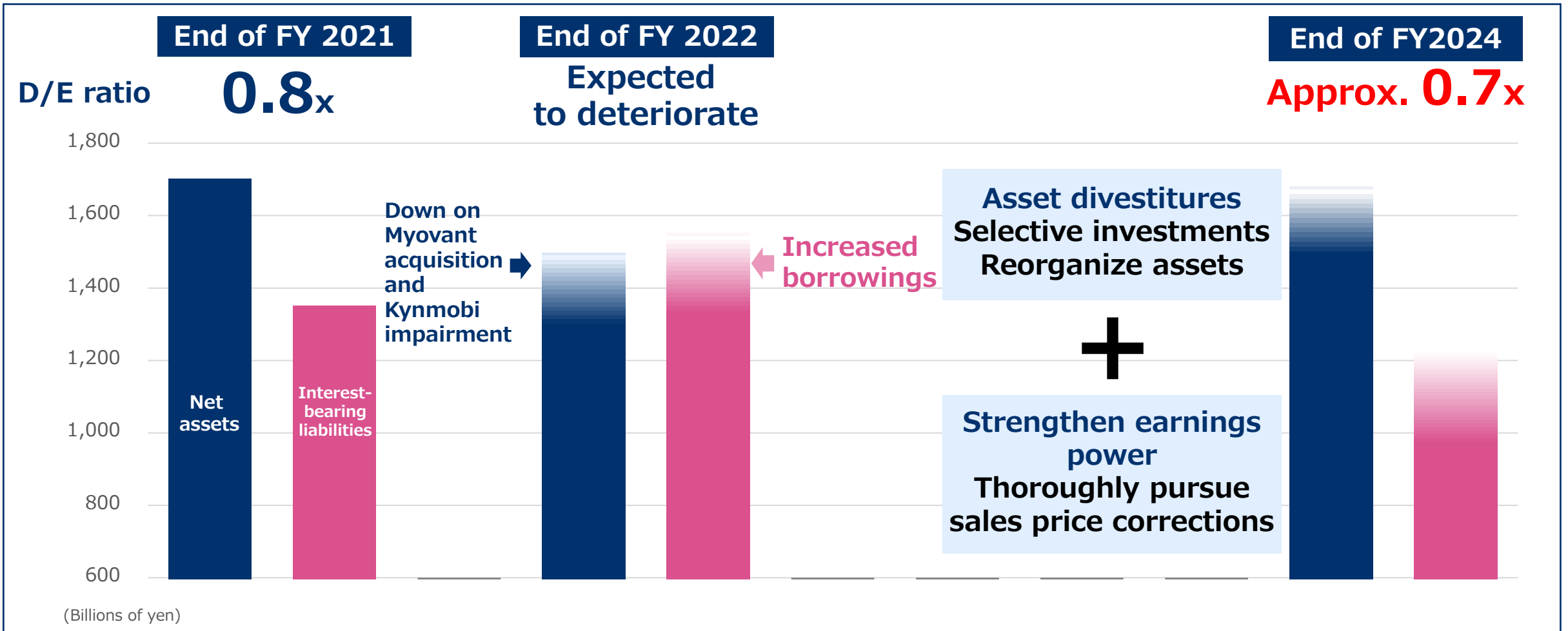
- Adhering to a total of 750 bn. yen through selective investment in the face of acquisition expenses, FX and inflation, etc.
- More than 30% of total (Pharmaceuticals reflects net amount less asset divestitures)

Investment decisions by area (color fill indicates progress as of December)

Expenses related to making Myovant a wholly owned subsidiary expressed as a **NET amount** (anticipated acquisition amount less asset divestitures)



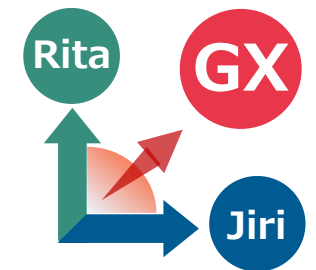
Despite near-term D/E ratio deterioration, we aim to achieve targets through various financial improvement measures



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Section.2 Essential Chemicals & Plastics Sector



Today's Agenda

- 01** Sector Business Overview
- 02** Summary of the Previous Corporate Business Plan
- 03** New Corporate Business Plan: Basic Sectorwide Direction
- 04** New Corporate Business Plan: Individual Business Strategies



01

 SUMITOMO CHEMICAL

Sector Business Overview

Polyethylene (PE)

Product: Resin broadly used in container and packaging materials

Our strength: High-quality protective films



Polypropylene (PP)

Product: Resin broadly used in automotive parts and packaging materials

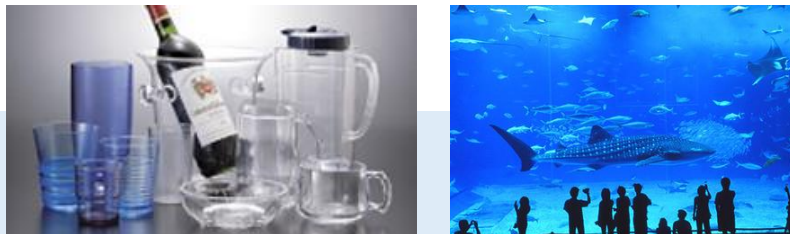
Our strength: Deploy automotive PP compounds globally, Shock-resistant and other high-performance packaging applications



MMA (MMA-m/PMMA)

Product: Highly transparent and weather-resistant resin and material

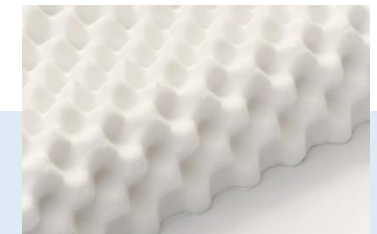
Our strength: MMA-m market share No. 2 in Asia and No. 4 globally



Propylene oxide (PO)

Product: Raw material for urethane used in automotive seats and furniture

Our strength: Proprietary technology that does not create by-products, Licensing out our technology



Location	Japan
Positioning	Development of new technologies and products
Challenges	Aging equipment Strengthen technology licensing business

Production capacity	Japan	Singapore	Saudi Arabia
LDPE	172	255	150
LLDPE	183		600
HDPE			300
PP	307	670	700
PO	200		200
MMA – m	90	223	90
PMMA		150	50

(1,000 tons)

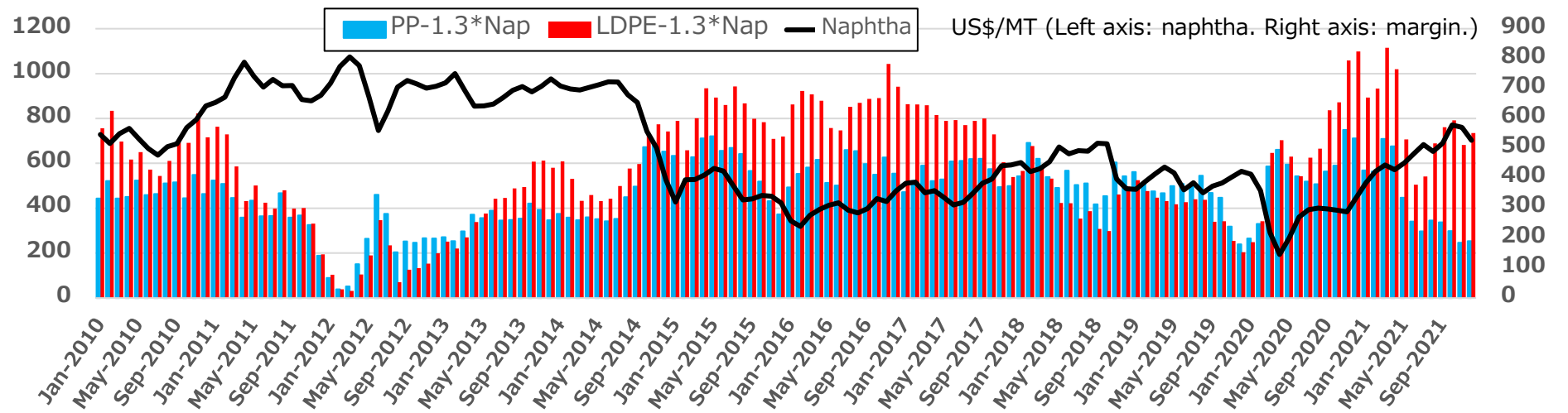
Location	Saudi Arabia
Major Affiliates	PetroRabigh (PRC)
Positioning	Cost competitiveness due to cheap feedstock Complex integrates refinery and petrochemicals
Challenges	Earnings instability due to fluctuations in petroleum refinery margin

Location	Singapore
Major Affiliates	Petrochemical Corporation of Singapore The Polyolefin Company Sumitomo Chemical Asia
Positioning	Base of earnings for our business with top-class customers
Challenges	Continue shift to high value-added products Maintain share at top-class customers

Major product margins

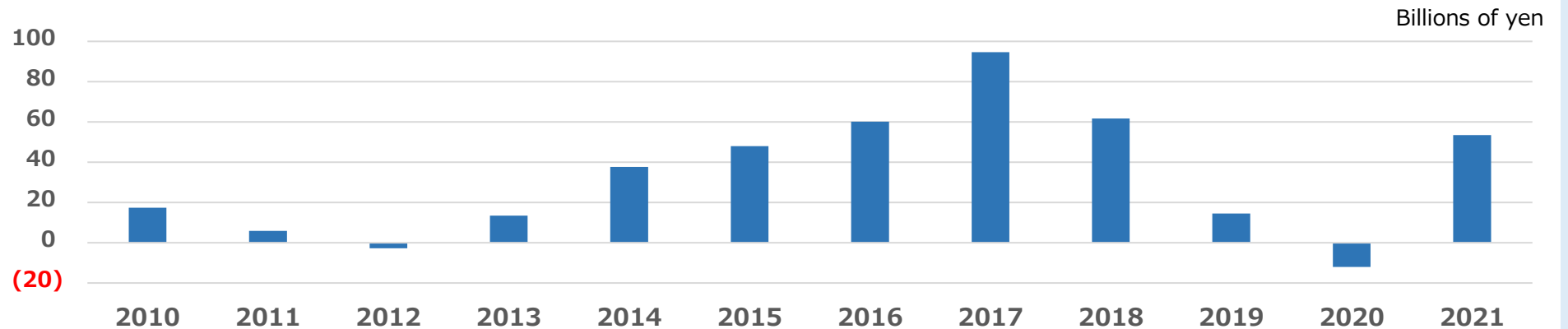
Jan 2010 to Dec 2021

(Prepared by Sumitomo Chemical based on information from IHS)



Sector core operating income

FY2010 - 2021



Cyclical earnings exposed to swings in product prices driven by supply and demand trends

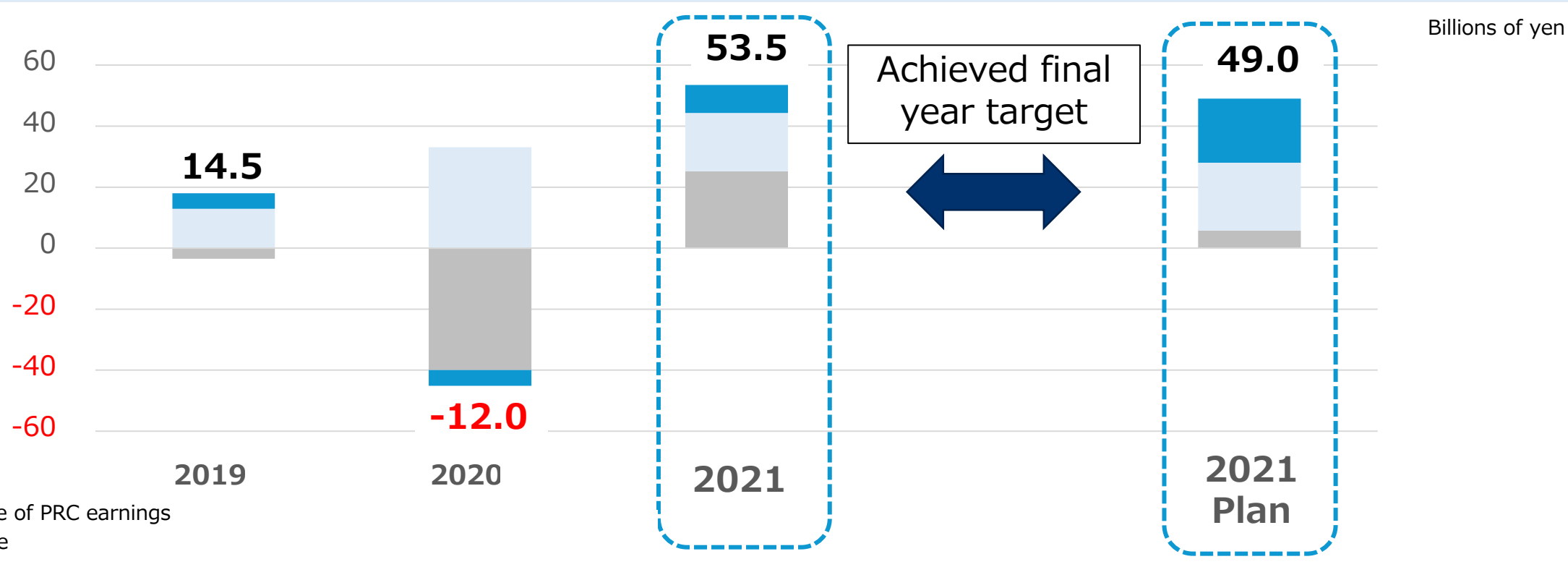


02



Summary of the Previous Corporate Business Plan

Sector total core operating income



- **FY20: PRC earnings deteriorated substantially on fall in crude oil prices and scheduled maintenance**
- **FY21: Achieved mid-term target on business performance recovery driven by strength in petrochemical product prices and stable operations at PRC**

- Cleared important milestone in PRC Phase II plan and advanced initiatives to improve business performance
- In response to changes in society, accelerated studies toward becoming carbon neutral and kicked off various measures

Category	Progress
Activities aimed at becoming Carbon Neutral	<ul style="list-style-type: none"> ● Fuel conversion aimed at reducing greenhouse gas emissions at major domestic plants <ul style="list-style-type: none"> • Ehime Works: Made progress in construction of LNG terminal and thermal power plant • Chiba Works: Green-lighted high-efficiency gas turbine ● Initiatives aimed at achieving carbon cycle <ul style="list-style-type: none"> • Commercialized PP compounds made from recycled materials in Europe • Began studies on alliance with Rever Holdings • Developed chemical recycling technologies through collaboration with other companies and academia
PetroRabigh Maintain stable operations in Phase I and reap benefits from Phase II	<ul style="list-style-type: none"> ● Stable operations at Phase II plant. Completion guarantee released September 2020.
Strengthen technology licensing and catalyst businesses	<ul style="list-style-type: none"> ● Added catalyst capacity for polyolefins (2019 3Q) and propylene oxide (2019 4Q)
Restructuring of underperforming businesses	<ul style="list-style-type: none"> ● Green-lighted exit from caprolactam business (Halted October 2022)



03

 SUMITOMO CHEMICAL

New Corporate Business Plan: Basic Sectorwide Direction

Changes in the Business Environment and Considerations for Planning

Short-term changes

Decline in product market prices due to softening demand

- Lax supply-demand balance due to addition of new plants in China and Southeast Asia
- Feedstock margins forecast to contract

Mid- to long-term and structural changes

Governments and corporations pushing further to reduce carbon

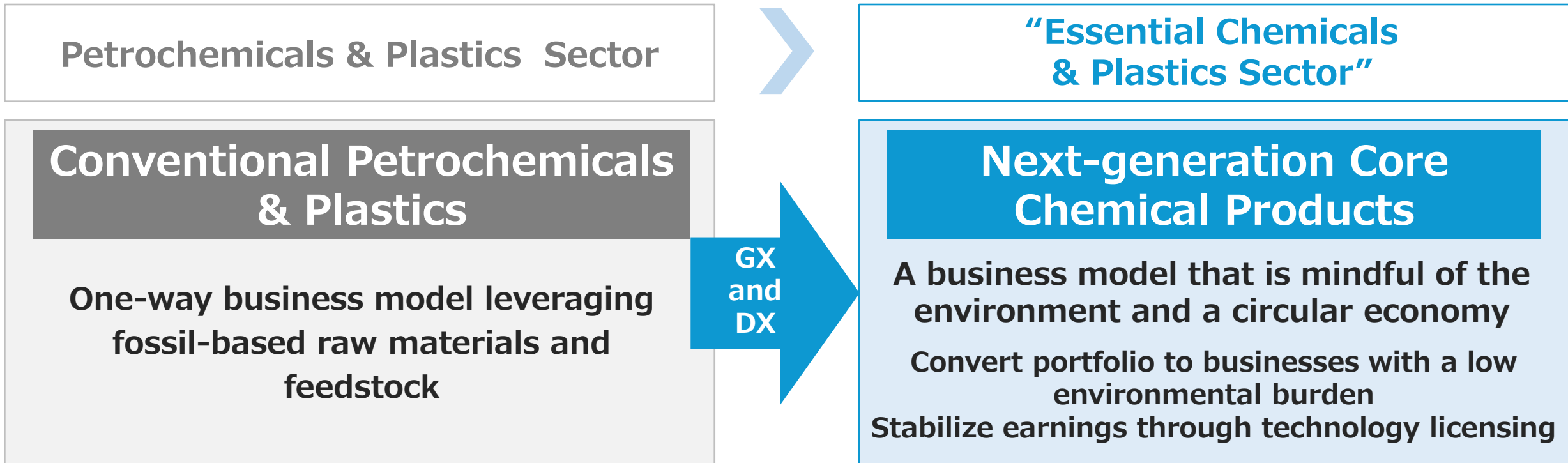
- Since 2020, Japan and a series of other governments have issued carbon neutral targets
- Chemical makers inside and outside Japan and their customers have set and announced targets, also
- Brand owners are moving to shift to non-fossil based plastics

Advances in technology development aimed at becoming carbon neutral

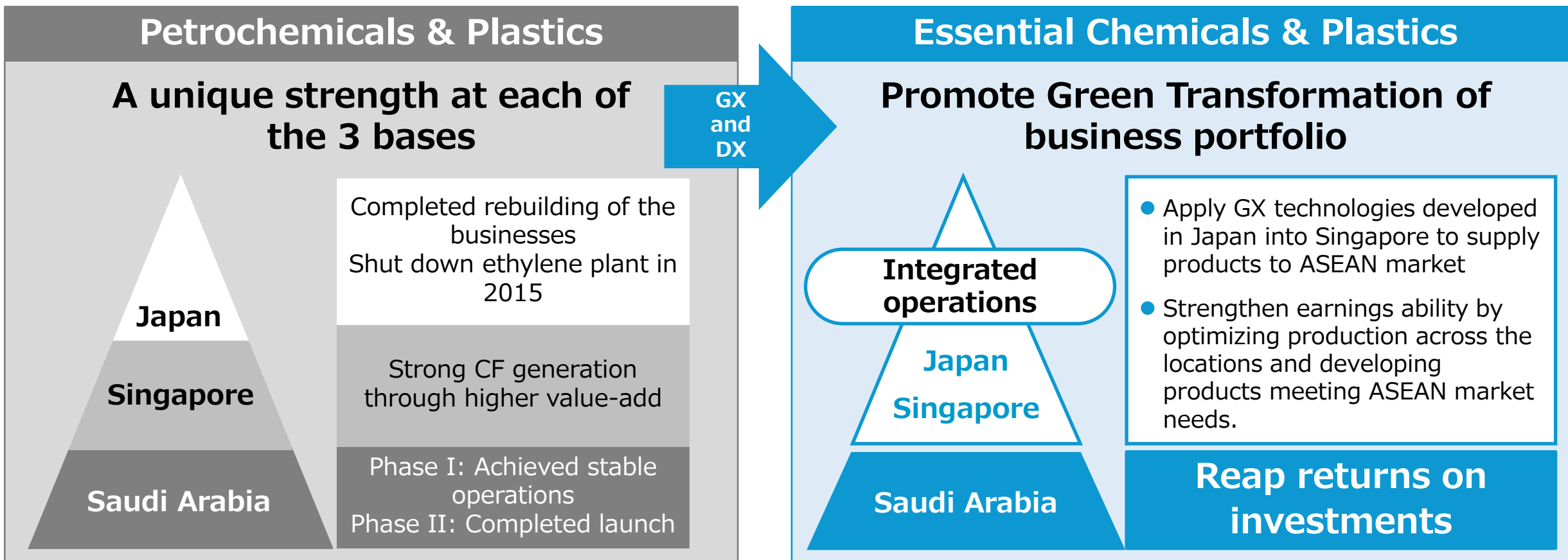
- Mainly western companies are accelerating technology development in electrification of naphtha crackers, CCUS, chemical recycling and conversion to clean fuels (hydrogen and ammonia)

- **In anticipation of a downturn in market prices, we need to double down on efforts to improve earnings**
- **We need to rethink the positioning of businesses based on feedstock or raw materials derived from fossil fuels**
- **Many uncertainties lie along path toward carbon neutrality**
 - Technological feasibility related to the introduction of non-fossil based products and projections for commercial production costs
 - Future market needs, developments in the volume zone and the formation of sales price frameworks

- Fossil-based chemical products (such as food packaging) currently in distribution are essential materials to society
- In consideration of the environment and a circular economy, continue to supply products while actively reforming raw materials and production methods
- Through the accumulation of recycling technologies, the sector becomes essential to the corporate group and our aim to become carbon neutral



Integrate operations in Japan and Singapore to accelerate R&D and deployment into society of carbon neutral technologies and strengthen earnings of existing businesses



Basic direction

- Reduce cyclical earnings exposed to market volatility, strengthen earnings ability and stabilize profitability
- Focus on GX initiatives, but given the current uncertainties in technological feasibility, required costs and market needs, begin a wide range of initiatives and spend the next three years discerning future business potential

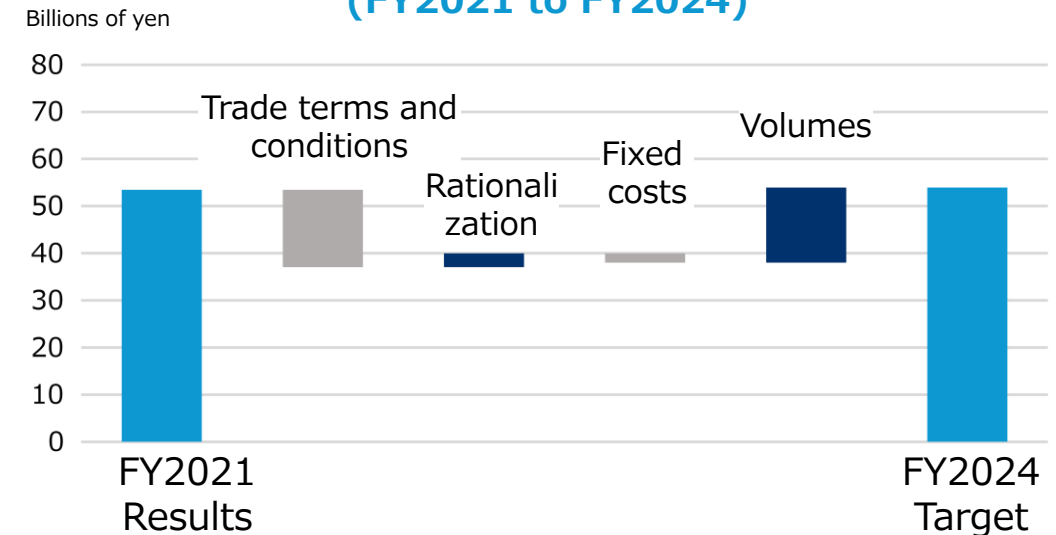
Strengthen earnings ability	trenghen technology licensing and catalyst businesses	<ul style="list-style-type: none"> ● Secure earnings through licensing and catalyst sales, which are not affected by short-term market volatility ● Focus on providing technologies that reduce environmental impact and contribute to achieving a carbon neutral society
	Shift resin business to high value-add	<ul style="list-style-type: none"> ● Acquire premium to boost earnings during downturns in market prices
Promote GX	Reduce GHG emissions at the Sumitomo Chemical Group Obligations toward carbon neutrality	<ul style="list-style-type: none"> ● Fuel conversion projects at Ehime and Chiba Works ● Initiatives aimed at procuring clean ammonia
	Develop and commercialize plastics recycling technologies	<ul style="list-style-type: none"> ● Commercialize materials recycling to capture emerging needs ● Develop multiple routes of chemical recycling technologies
	Initiatives aimed at further diversification of raw materials and feedstocks	<ul style="list-style-type: none"> ● Continue to explore non-fossil based raw feedstocks ● Study shift from conventional crackers to on-purpose plants

	FY21 Results	FY24 Target
Sales Revenue	842.5 bn. yen	840.0 bn. yen
Core Operating Income	53.5 bn. yen	54.0 bn. yen
Naphtha price	¥ 56,600/kl	¥ 50,000/kl

Earnings plan and improvement initiatives

- Plan to generate earnings on par with FY21 as cost rationalization and the disappearance of impact from scheduled maintenance at Chiba Works offset
- squeezed margins under downward market
- Stabilize earnings by strengthening technology licensing and catalyst businesses
- Advance shift in resin business to high value-add
- Bolster competitiveness through integrated operations with Singapore

Changes in Core Operating Income (FY2021 to FY2024)



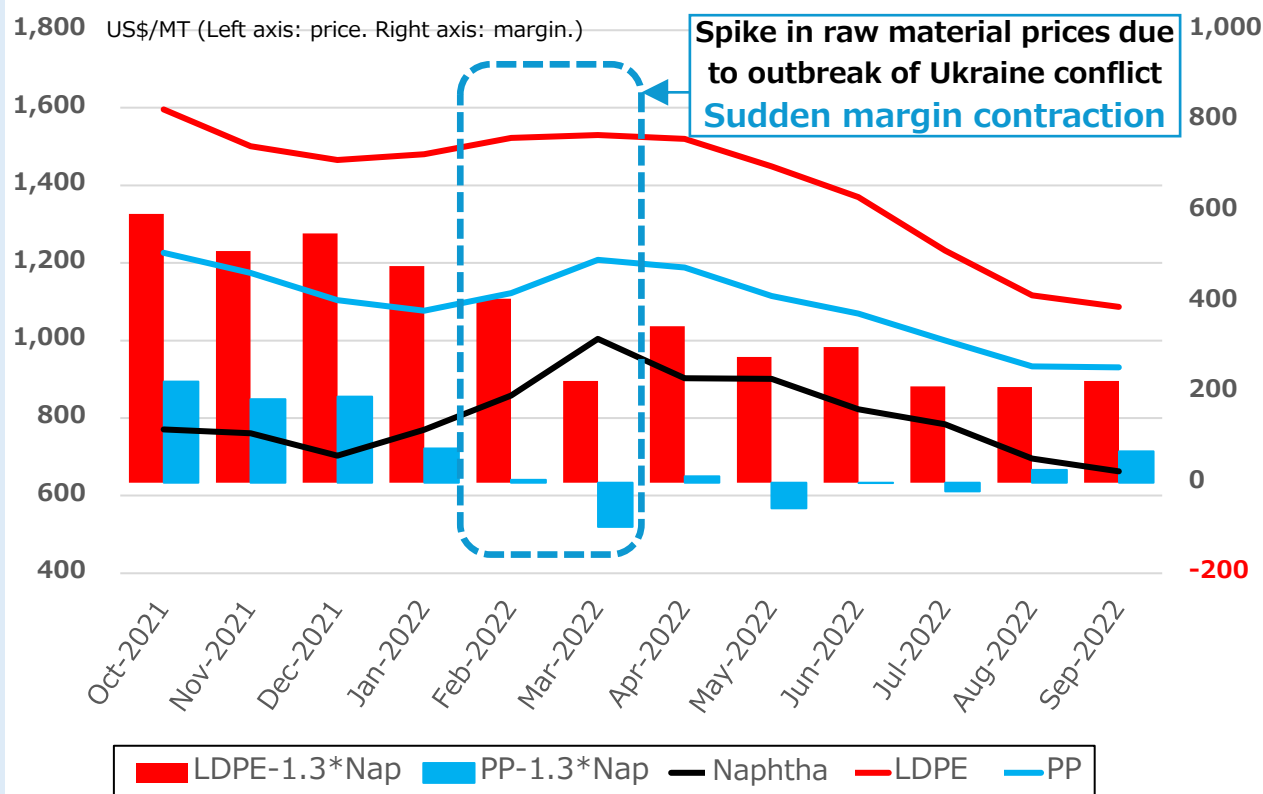
FY2022
Core Operating Income

May guidance

41.0 bn. yen

November guidance

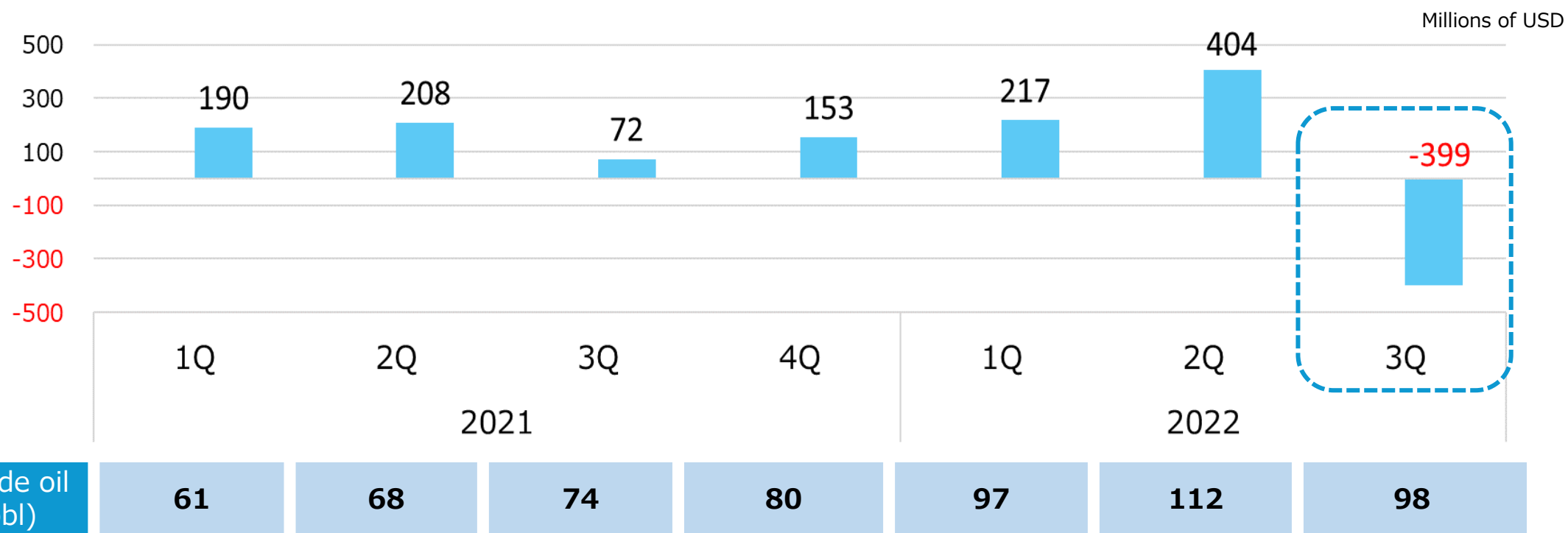
0 bn. yen



(IHSをもとに住友化学作成)

- Spike in crude oil and naphtha prices coincident with lax demand for petrochemical products
- Margins deteriorating substantially versus Corporate Business Plan assumptions due to weak demand driven by China's zero Covid policy and other factors and stagnant market prices for products
- PRC earnings, which had been buoyed by rising crude oil prices, turned negative in 3Q as refinery margins contracted rapidly on fears of an economic downturn

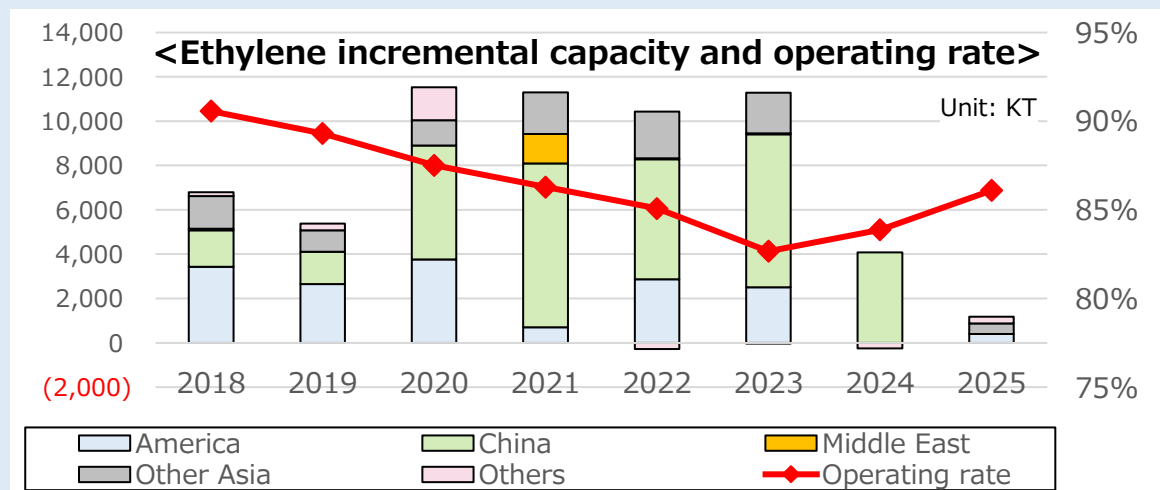
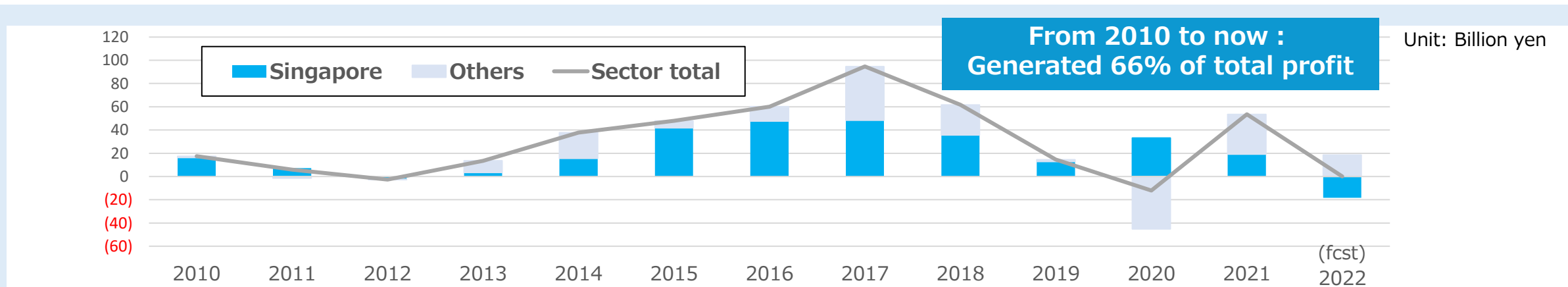
Profit before tax



- Since July 2022, margins contracted rapidly due to downturn in prices for petroleum refinery products
- 3Q earnings turned negative as the ethane advantage contracted on falling crude oil prices and inventory writedowns weighed on profitability

Forecasted business environment: Singapore

Singapore (PCS · TPC · SCA) is our core and strategic business with solid customer base, stable product supply, and cost-competitiveness as naphtha-based production, having been generating more than half of the profit of the sector



Decline in margin due to substantial capacity additions and weaker demand under COVID-19 in recent period

- Operating rate is expected to hit the bottom in 2023 and margin is forecasted to get better
- Further strengthen profitability by cost reduction and improvement of polymer product mix

- Focus on taking measures to improve short-term profit to overcome current difficulties, achieving profit target set in FY2024
- Promote integrated operation between Japan and Singapore, further enhancing strength developed through long-term business experience in Singapore

Short-term	Price improvement	Revise price at lower level than other customers, transfer increase in sub-raw materials, etc, mainly for Japan domestic business
	Improvement of polymer product mix	Shift from commodity to high-value added grades Food packaging, Protect film for optical application, etc (Polyolefin) 、 Automotive application, (PMMA)
	Expand licensing business	Strengthen marketing and find new licensees mainly for PO-only process and Hydrochloric acid oxidation process
	Cost rationalization	Secure competitive feedstock, realize further efficient unit consumption, reduce manufacturing fixed costs and logistics costs, etc

⇒ Strive to achieve improvement of approx. 10 bn yen in FY2024 (compared to FY2022) by implementing the measures above

Mid-term	Integrate operation between Japan/Singapore	Study on optimizing production of polyolefin by reviewing market growth potential in Japan and ASEAN, customer locations, and production costs at respective sites, etc
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04

 SUMITOMO CHEMICAL

New Corporate Business Plan: Individual Business Strategies

Challenges

- Secure stable earnings through licensing and catalyst sales, which are not impacted by short-term swings in market prices
- Contribute to becoming carbon neutral by providing technologies that reduce environmental impact

Action plan

Bolster marketing

- Expand opportunities to contact potential customers

Fill out portfolio

- Develop and license out technologies that reduce environmental impact
- Expand support after start-up to include operational support, process improvements and the like

Refine technologies

- Strengthen competitiveness of licensed processes through longer-lasting catalysts and cost reductions

Greenhouse gas reductions driven by the adoption of our licensed technologies

PO-only process
-30%

Hydrochloric acid oxidation process
-90% or more

Comparison of PO-only process to peers' processes and of hydrochloric acid oxidation process to NaCl electrolysis process

Challenges

- Acquire premium to boost earnings during downturns in market prices for commodity resins

Action plan

Exploration of customer needs and product development

- Speedy product development latching onto needs such as shift to mono-materials and lighter-weight automobiles
- Line up alongside materials recycling products and contribute to reduced environmental impact in society

Shift sales mix to high value-added products

- Boost earnings power by shifting existing grades to higher value-add, too

Optimize supply regime

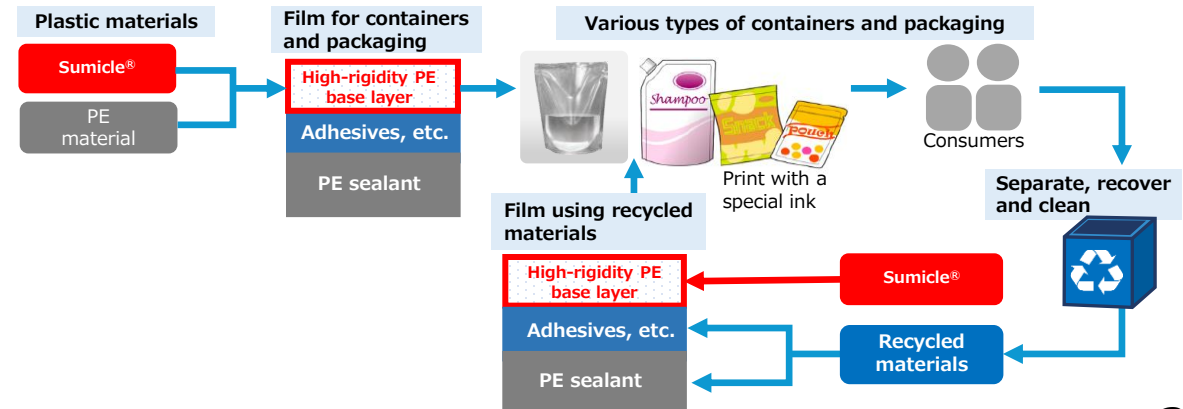
- strengthen integrated operations with Singapore and optimize production regime considering customer location, etc.

Recent new product developments

High-rigidity polyethylene "Sumicle®"

- Apply to base layers of containers and packaging to achieve polyethylene mono-material and contribute to the horizontal recycling of containers
- Expand adoption further by printing containers with a special ink that loses its color when exposed to heat

Collaboration with PILOT



Fuel conversion projects underway at Ehime and Chiba Works are progressing well
 Reach greenhouse gas reductions as planned by achieving smooth operations

Ehime

- **Plan overview:** Build new LNG terminal (joint investment by 5 companies) and introduce high-efficiency gas turbine
 ⇒ Convert fuel for power generation from coal to LNG
- **GHG reduction:** 650k tons/year
- **Operation timeline:** LNG terminal March 2022
 High-efficiency gas turbine November 2022

Chiba

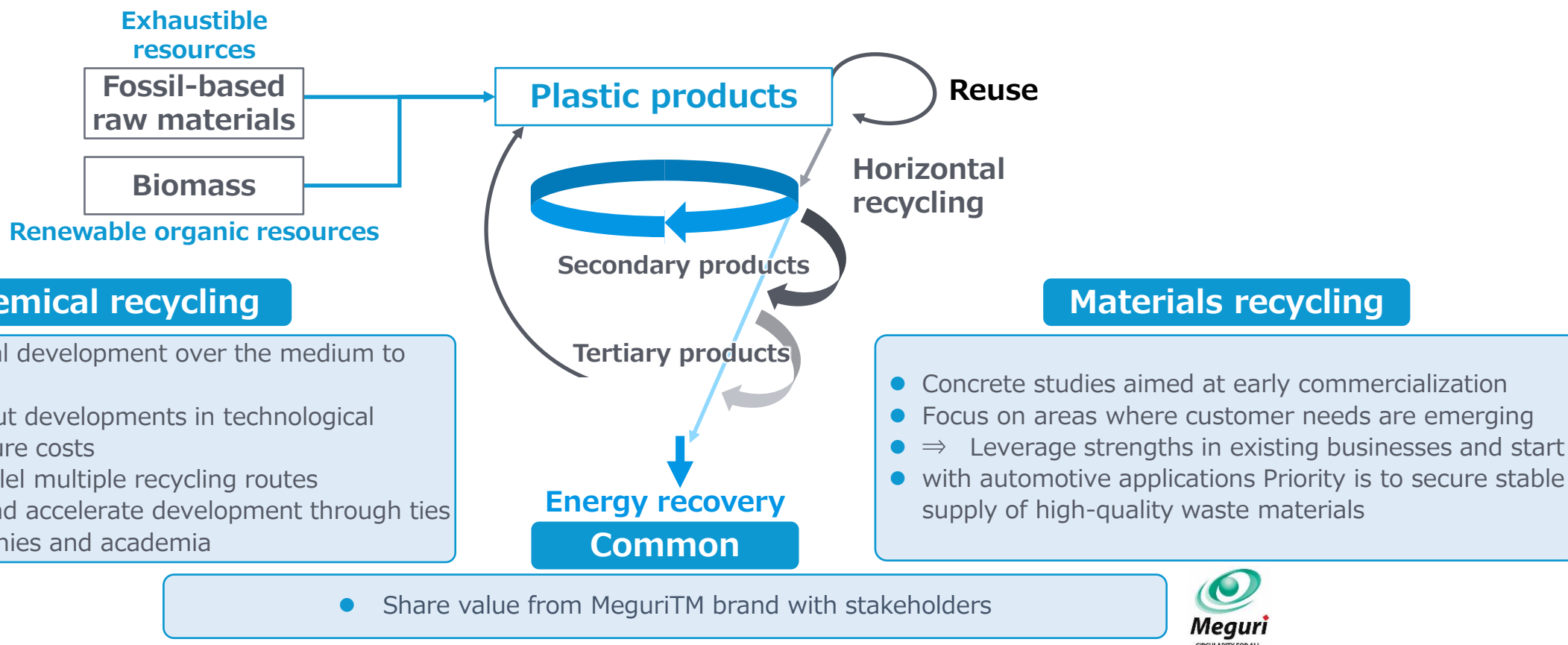
- **Plan overview:** Introduce high-efficiency gas turbine
 ⇒ Convert fuel for power generation from petroleum coke to LNG
- **GHG reduction:** 240k tons/year
- **Operation timeline:** November 2023

Begin studies to procure clean ammonia to achieve further GHG reductions

Study collaboration with Yara

- Procure clean ammonia (green and blue) supplied by Yara
- Study fuel conversion at plants to reduce GHG emissions alongside its use as a feedstock for petrochemicals & plastics
- Maximize benefits of collaboration by leveraging large-scale ammonia storage facilities within Ehime Works

Develop and commercialize technologies in both materials and chemical recycling to achieve a circular economy for resources



Aim to achieve target of using 200k tons of recycled plastic resources by FY2030 while adopting optimal approaches

Advance studies to commercialize materials recycling through collaboration with Rever Holdings

Automotive applications developed by the Sumitomo Chemical Group Technological prowess and salesforce in polypropylene compounds

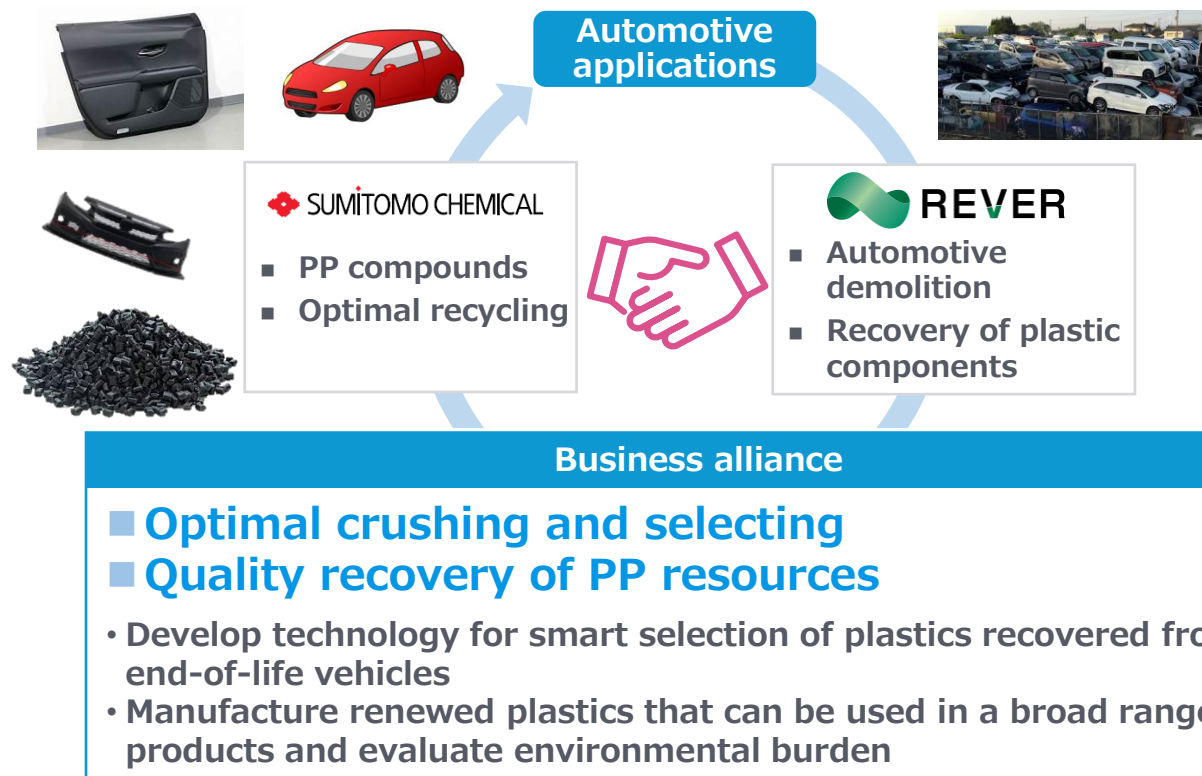


Rever Holdings' track record and know-how related to the collection, demolition and crushing of automobiles



Uncover customer needs for expanded use of recycled products

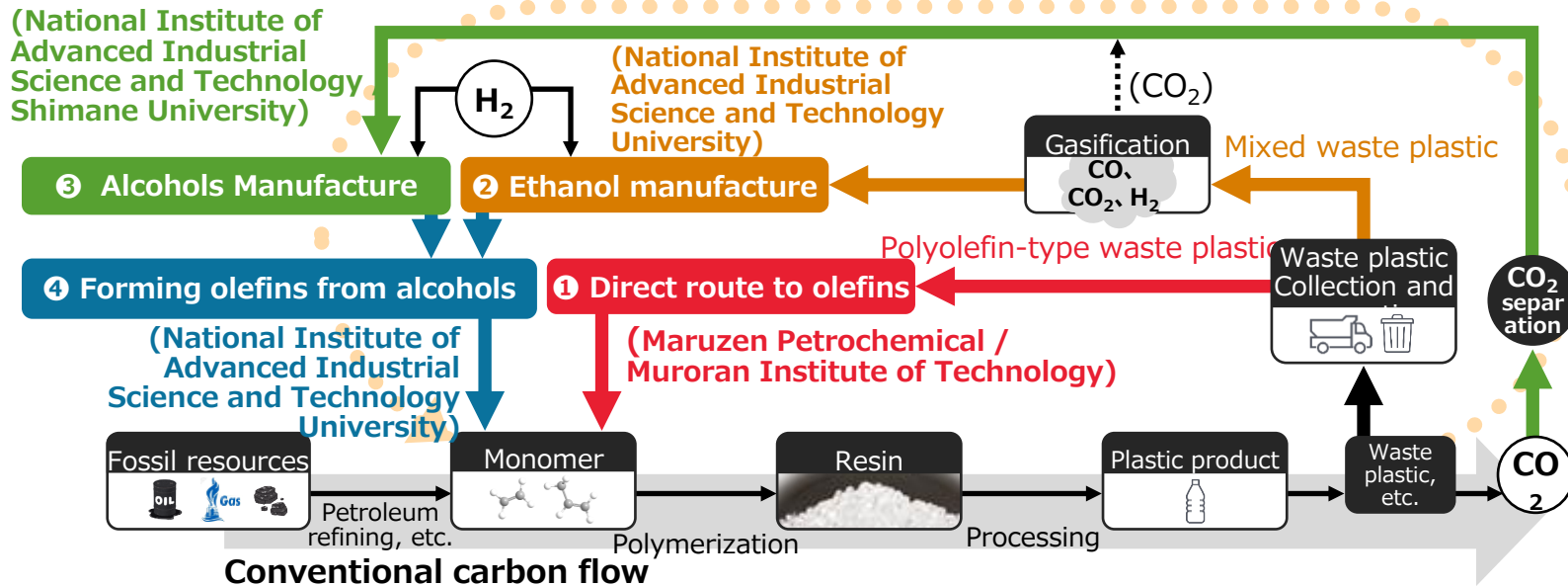
Set automotive materials as top priority
Aim to commercialize and become front runner



In September 2022, we green-lighted the introduction of PILOT equipment, which separates waste plastic and removes foreign objects with high precision

⇒ Further accelerate commercialization studies, beginning to supply customer samples in FY2023

Develop in parallel multiple chemical recycling routes, discern technological feasibility and cost trends and aim to commercialize



- Maximize the benefits from our strengths in catalyst and chemical process design technologies
- Work with third-parties to pursue development through joint research and accelerate commercialization

Numbers 1 through 4 to the left were selected for the Green Innovation Fund

(Joint development partner)

Leading initiative: PMMA chemical recycling

- Leverage our group's knowledge in MMA and PMMA products
- Establish monomer recycling technology through thermal decomposition of resin in alliance with Japan Steel Works



Green-lighted introduction of demonstration production equipment at Ehime Works
Aim to begin supplying samples in FY2023
 * PMMA made from recycled monomers reduces GHG emissions 60% across the entire product lifecycle compared to fossil-based

Advance technological development and commercialization of short-term and mid- to long-term themes to contribute to a circular economy for carbon resources

Direction for initiatives

- Convert raw materials and feedstocks away from fossil fuels to achieve carbon neutrality
- Explore raw materials and feedstocks broadly, including waste plastic, general waste, CO₂ exhaust and biomass, and advance technological development, and discern demand for, technological feasibility of and cost trends for each and aim to commercialize the optimal combination
- Consider efficiency and environmental burden in commercialization and study shift from conventional crackers to on-purpose plants to make individual products

In April 2022, we completed demonstration production equipment for ethanol-based ethylene at Chiba Works and began producing samples

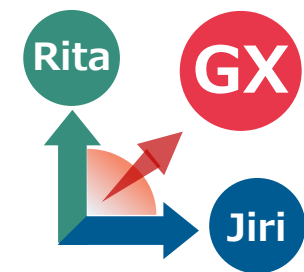
- Purposed production of ethylene using waste produced by Sekisui Chemical and ethanol derived from biomass as a raw material
- Accelerate studies to commercialize non-fossil based polyethylene



Change and Innovation ~ with the **Power** of Chemistry ~

Sumitomo Chemical IR Day 2022 Winter

Section.3 Health & Crop Sciences Sector



Today's Agenda

- 01** Summary of the Previous Corporate Business Plan
- 02** New Corporate Business Plan: Basic Sectorwide Direction
- 03** Individual Business Strategies



01

 SUMITOMO CHEMICAL

Summary of the Previous Corporate Business Plan

Financial Performance

FY2021 Target

Sales Revenue **480.0** bn. yen

Core Op. Income **75.0** bn. yen



FY2021 Actual

Sales Revenue **473.8** bn. yen

Core Op. Income **42.3** bn. yen

Highlights/Achievement

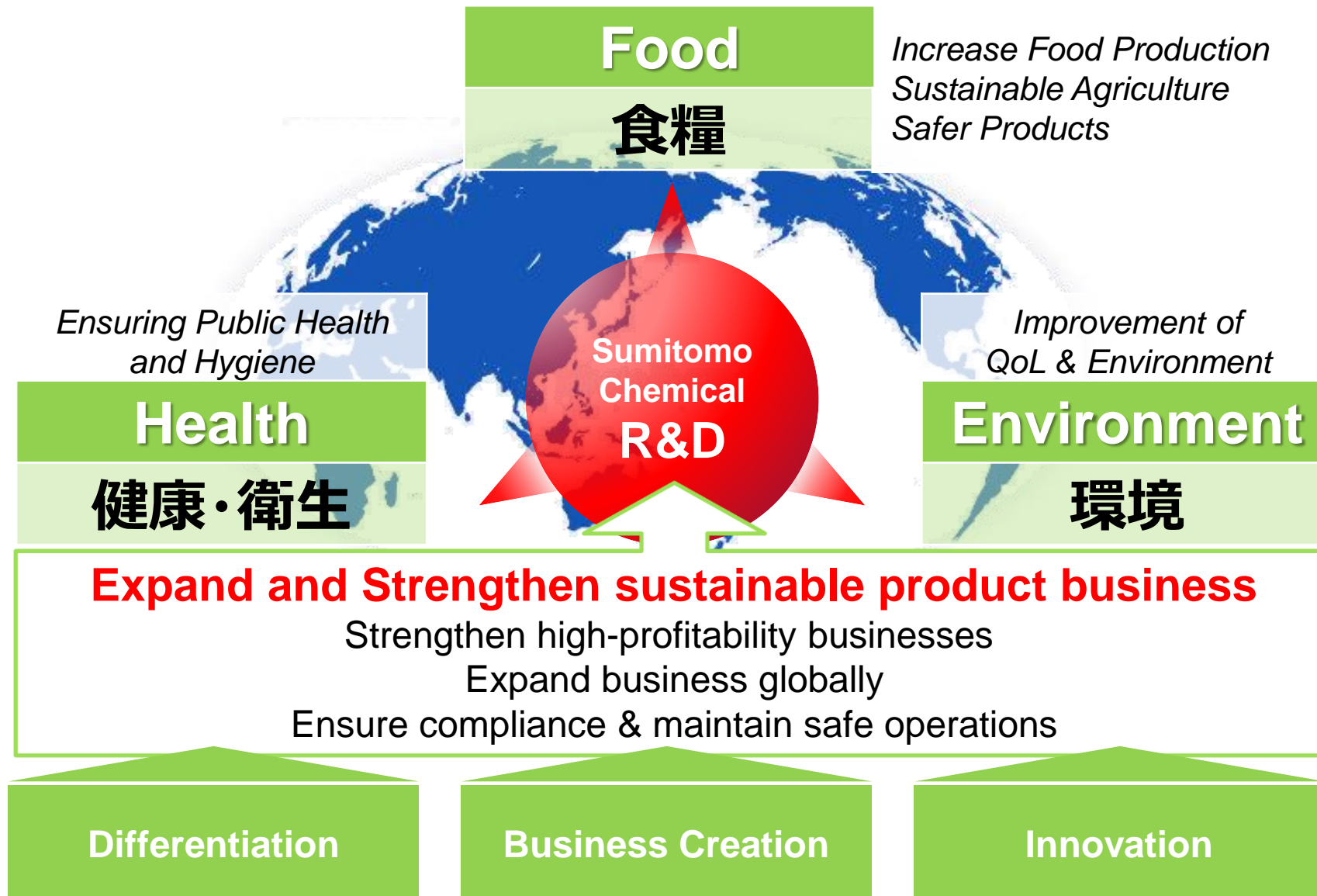
- *Decline Financials in FY2019*
- *Change of Market Environment*
- *Accelerate Actions for Expansion*
- *Downturn of Methionine Price and Ag Market in USA*
- *Intensifying Competition in Ag Market against Generic*
- *Acquire ex-Nufarm LATAM business and Biorational*

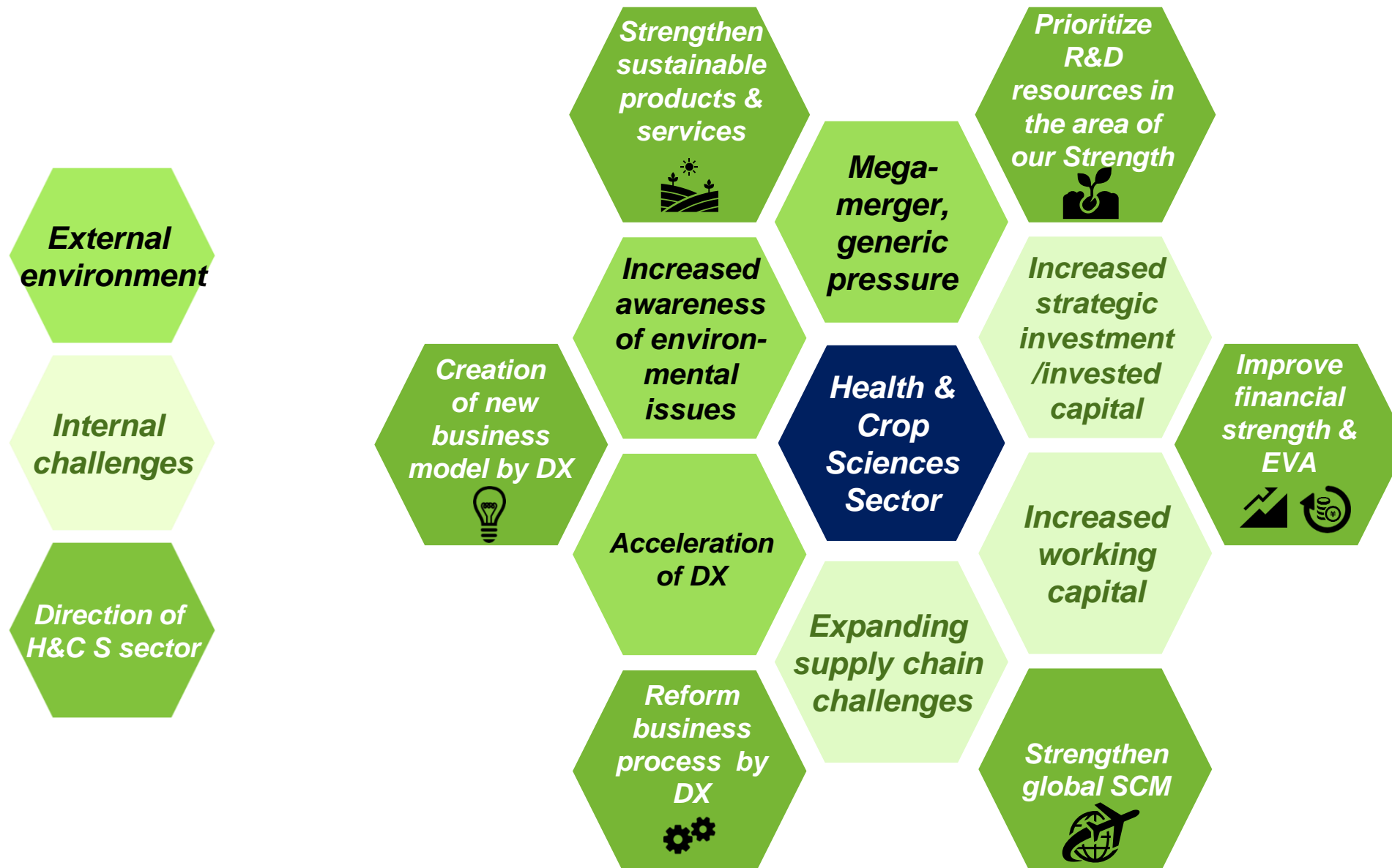










02



New Corporate Business Plan: Basic Sectorwide Direction





- | | | | |
|---|---|---|--|
| 1 |  | Compliance-based management, Safe & stable operation, Quality-focus | <ul style="list-style-type: none"> • Strengthen and promote compliance particularly reflecting globalization of manufacturing sites (e.g. India, Brazil) and diversification of product portfolio (e.g. Nucleic acid-based drugs) |
| 2 |  | Transform business portfolio driven by the promotion of “Sustainable Products” | <ul style="list-style-type: none"> • Differentiate ourselves from competitors with leading technologies and products such as Biorational & Botanical • Develop Crop Protection/Environmental health chemicals with strong focus on reducing environmental burden |
| 3 |  | Maximize economic return from past strategic investment | <ul style="list-style-type: none"> • Accelerate the realization of synergies committed in the past strategic investments |
| 4 |  | Strengthen our global supply chain management | <ul style="list-style-type: none"> • Strengthen supply chain management to secure stable supply & assure product quality so as to take a full advantage of our extended global footprint |
| 5 |  | Establish solid profit foundation by improving financial strength | <ul style="list-style-type: none"> • Control working capital and CAPEX prudently • Accelerate structural reform of business / product portfolio from the view point of future profitability |
| 6 |  | Accelerate R&D activities in an efficient manner | <ul style="list-style-type: none"> • Identify the business domain with our competitive edge and prioritize our R&D resources • Accelerate open innovation |
| 7 |  | Build new business model through active adoption of DX and other emerging technologies | <ul style="list-style-type: none"> • Develop service-oriented businesses by leveraging DX (Digital Transformation) • Promote differentiated business (e.g. Biorational) by leveraging DX |
| 8 |  | Reform business process by utilizing DX | <ul style="list-style-type: none"> • Pursue business process reform with the active introduction of DX (e.g. Adoption of IBP (Integrated Business Planning)) |

3 key concepts



Accelerate development of products/services with lower environmental impact.



Awareness of LCA concept (Life Cycle Assessment)




Challenge to Carbon Negative

Examples of product/service

- **Biorational and Botanical**
(Product from natural product)
- **Seed treatment**・Precision Agriculture
(Reduction of agricultural chemicals input)
- **Methionine**
(Reducing GHG emissions through reduction of nitrogen in livestock waste)
- Product supporting sustainable agriculture*
(no-till herbicide such as **Flumioxazin**・**Rapidicil™**)
*Suppression of CO₂ emission from soil
- **Mycorrhizal Fungus**
(CO₂ sequestration to the soil)

Accelerate Pipeline Development and Launch and Expand new products

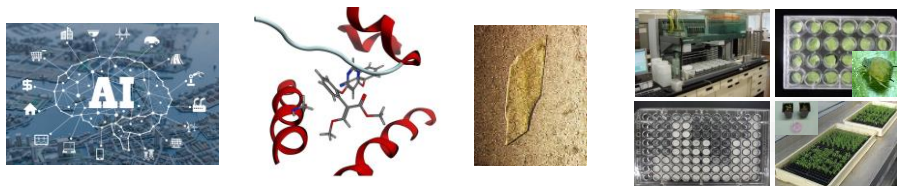
	Compound	Use	Evaluation	Full-scale development	Registration	Market Launch
B2020	INDIFLIN™ (Inpyrfluxam)	Agricultural fungicide e.g. Soybean rust		✓ Completed	✓ Registered	Launched in Japan and North America in 2020 Launched in Brazil in 2022
	PAVECTO™ (Metyltetraprole)	Agricultural fungicide e.g. Septoria		✓ Completed	✓ Registered in Japan	Scheduled to be launched in Japan in 2023
	ALLES™ (Oxazosulfyl)	Agricultural insecticide e.g. Major rice pests etc.		✓ Completed	✓ Registered in Japan	Launched in Japan in 2022
	FUSEKI™ (Pyridaclomethyl)	Agricultural fungicide e.g. Field crop & vegetable diseases		✓ Completed	✓ Submitted	Scheduled to be launched in 2023 or later
A2020	Accede™ (ACC)	Agricultural plant growth regulator		✓ Completed	✓ Registered in U.S.	Launched in the U.S. in 2022
	Rapidicil™ (Epyrifenacil)	Next generation herbicide effective against herbicide-resistant weeds		✓ Completed	✓ Submitted	 To several tens of billions of yen in sales by FY2024, the final year of the mid-term
	Pipeline C	Botanical insecticide for agriculture and household hygiene		✓ Completed	✓ Submitted	

Strengthen Business Foundation

Conventional Chemicals

Create Innovative Products with least impact on environment

- Use AI for rational chemical design
- Strengthen in vitro/in vivo screening



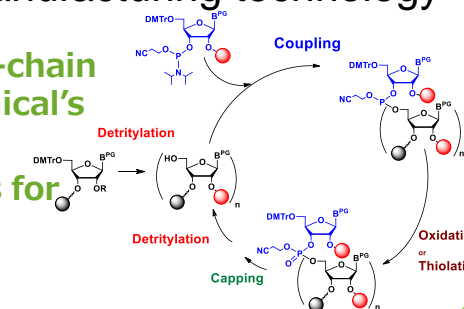
SUSTAINABLE
DEVELOPMENT

Realize Sustainable Society

Nucleic Acid Medicine

Develop next-generation manufacturing technology

- Chemically synthesize long-chain RNA using Sumitomo Chemical's unique monomer
- Develop analytical methods for high purity long-chain RNA



Biorational/Botanical

Develop products that provides sense of safety to consumers

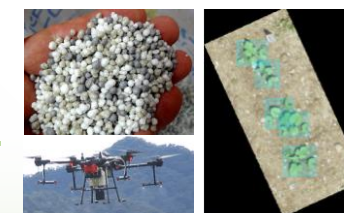
- Evaluate/Introduce natural plant-based products
- Utilize synthetic biology
- Create Innovative fermentation process technologies



Next Generation AgroSolution Technology

Establish sustainable crop production technology

- Utilize drones for spraying
- Utilize sensing technologies for cultivation
- Utilize eco-friendly materials for product design



Introduction of Digital Technology/Utilize Open Innovation

Changes and Impact of External Environment

Global inflation

JPY depreciation against USD

Rising energy costs

Geopolitical Risks

Global Logistics Disruption

Introduction of IBP*

*Integrated Business Planning

- Introduce integrated business planning, or IBP, as a mashup of supply chain optimization, financial planning and analysis (FP&A) and operational best practices
- Introduce best practices from LA into affiliates globally
- Started Trial introduction in ASDI in 2021 and elaborate into sector basis within 2023



Utilize DX for SCM

Study and Introduce Technologies/Platforms to realize following purposes

- Visualization of all information related to global supply chain
- Optimization of supply planning
- Dramatic reduction of delivery lead time

Establish resilient supply chain management /operation globally

FY 2024 Target

Sales Revenue	590.0 bn. yen
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Core Operating Income	84.0 bn. yen
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Direction for the business division

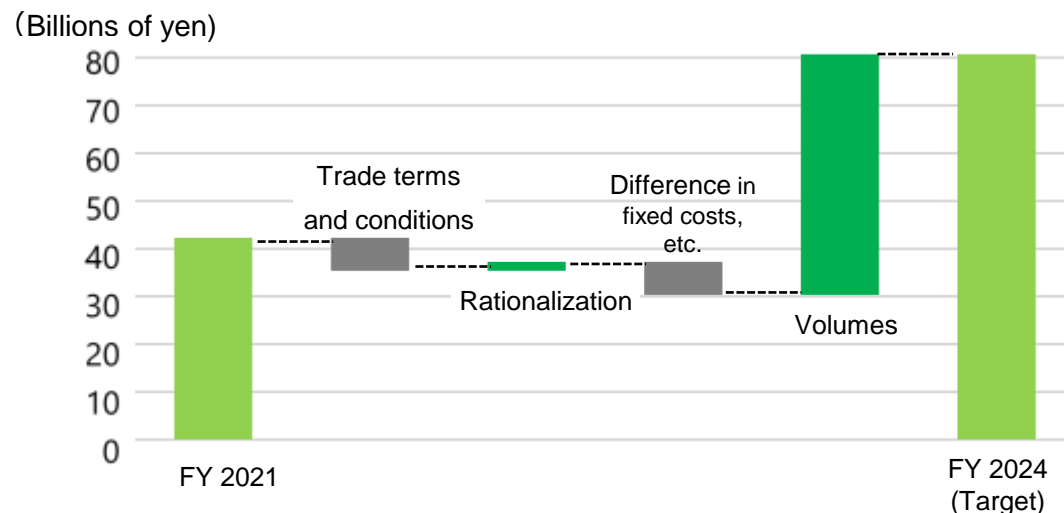
Reform Business portfolio to strengthen sustainable products

Secure returns on investments already made

Strengthen global supply chain

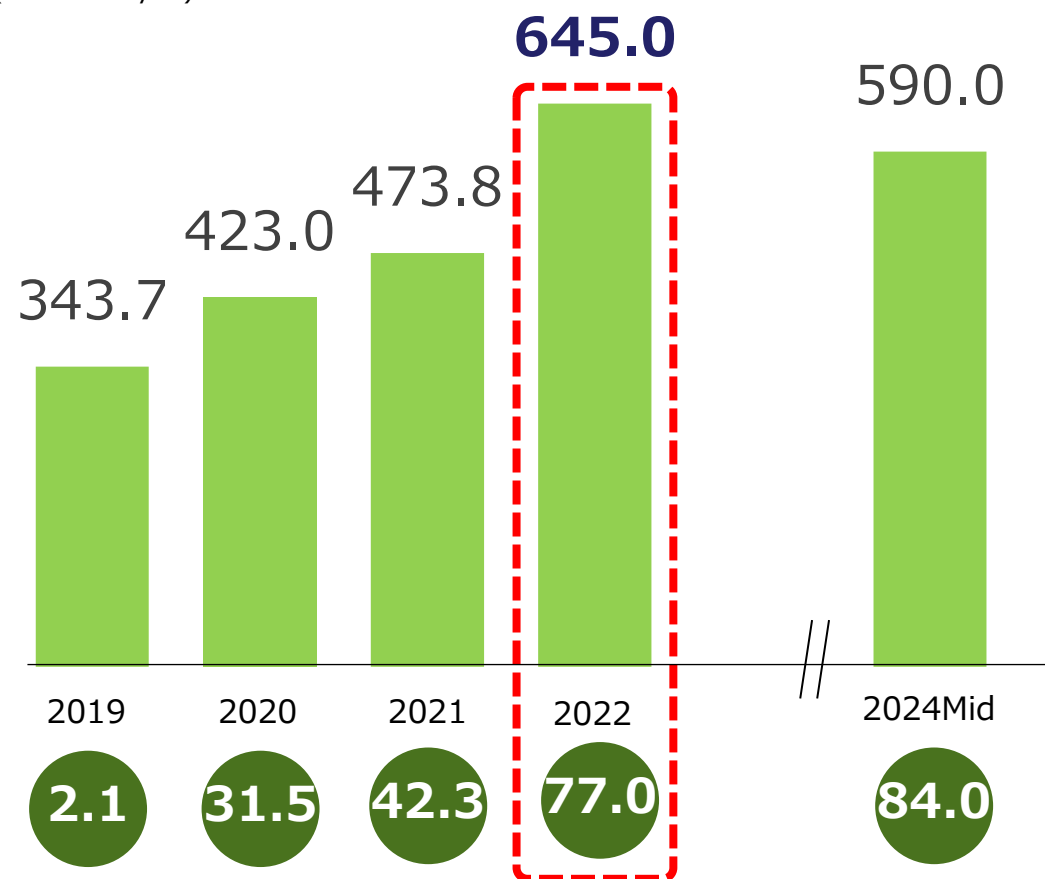
Advances and efficiencies in R&D

Core Operating Income Change Analysis (FY 2021 vs. FY 2024)



Consolidated net sales / Operating Income

(Billions of yen)



FY2022 Forecast

Sales Revenue	645 (+105.0)
Core operating Income	77 (+29.5)

(Billions of yen / Comparison of previous forecast)

JPY Depreciation

Progressed well AgroSolutions
Business in Brazil and India

Vertical Launch of new fungicide
in Brazil

Expansion of Biorational and seed
treatment business

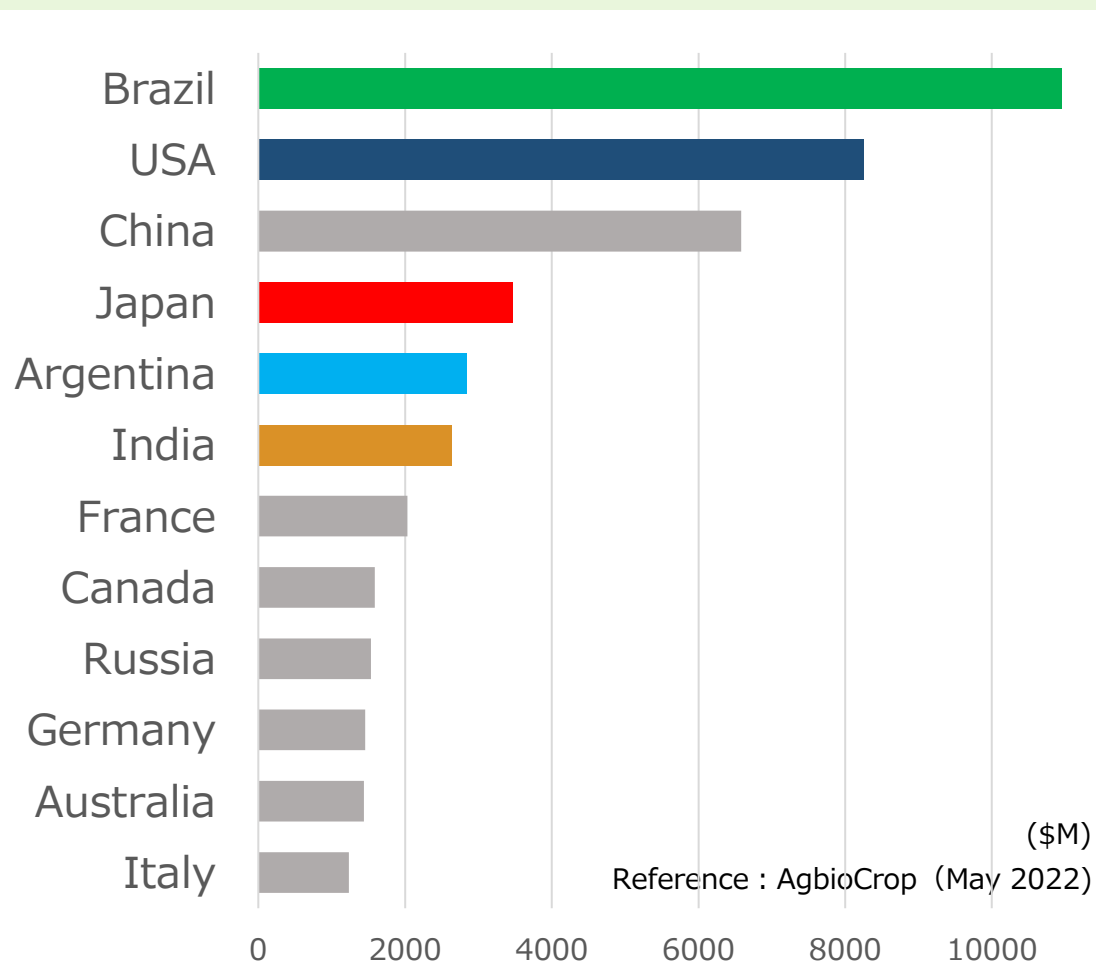


03

Individual Business Strategies

 SUMITOMO CHEMICAL

Crop Protection Market Size (2021)



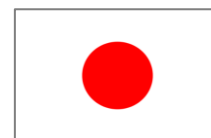
Our Actions in each market



- Completed PMI (incl. Entity integration by 22/3)
- Start INDIFLIN™ Sales (next page)
- Promote: Seed Treatment/Biorational/New Product



- Restructure USA affiliates(VUSA)
- Consolidate Shared Service (VNA)
- Promote: Seed Treatment/Biorational/New Product



- Restructure/Re-enforce Domestic Business
- Promote DX in Agriculture (Provide Apps etc.)
- Promote New product sales of B2020



- Sales Expansion, leveraging ex-Nufarm footprint
- Promote: INDIFLIN™ /Seed Treatment/Biorational

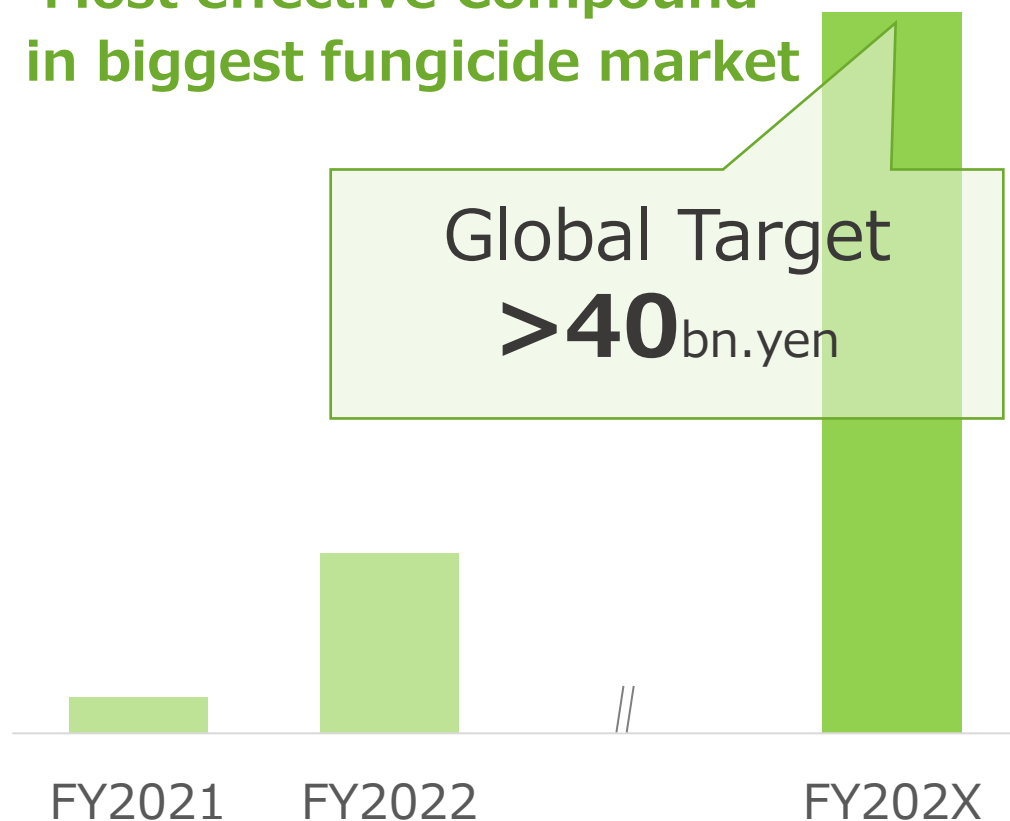


- Expand Biorational & Develop/Launch new mixtures
- Realize sales expansion through digital marketing
- Utilize manufacturing capability for global sales

INDIFLIN™ Vertical Launch

Most effective Compound
in biggest fungicide market

Global Target
>40bn.yen



INDIFLIN™ in Brazil

Brand :

EXCALIA MAX

Mixture (INDIFLIN™ & Tebuconazole) :

Main Target : Asian Soybean Rust

Characteristics : Provide broad spectrum against plant diseases and contribute to resistance management



Full advantage of B2C Sales Organization

Provide Technical Support and information
Expand Sales Representative for Soybean Area/Actively utilize SNS

Enhance Product Manufacturing

Establish Manufacturing for Excalia at Maracanau at SCB
Strengthen relevant SCM, especially raw material procurement

No-till Farming (Herbicide)

No-Till Farming



- Skip (Machine) cultivation before planting
- Enables farmers to simplify farming activities
- Prevents soil loss but also reduce GHG emission stemming from soil and through reduction of fuel for machine

Sumitomo Chemical Contribution

to sustainable agriculture, providing fast-acting and long-lasting herbicides

Flumioxazin

Sales increasing
Mainly in North/South America

Rapidicil™

To be launched
in North/South America

Seed Treatment Business

Seed Treatment

- Treat pesticides to seeds
- Provide efficient and effective method that contributes to saving farmer time and lower environmental impact by applying the products directly to seed in comparison with foliar/soil application

Sumitomo Chemical Contribution

to sustainable agriculture, providing insecticides and fungicides for various seeds

Insecticides

Fungicides

Expand business
more than triple in several years

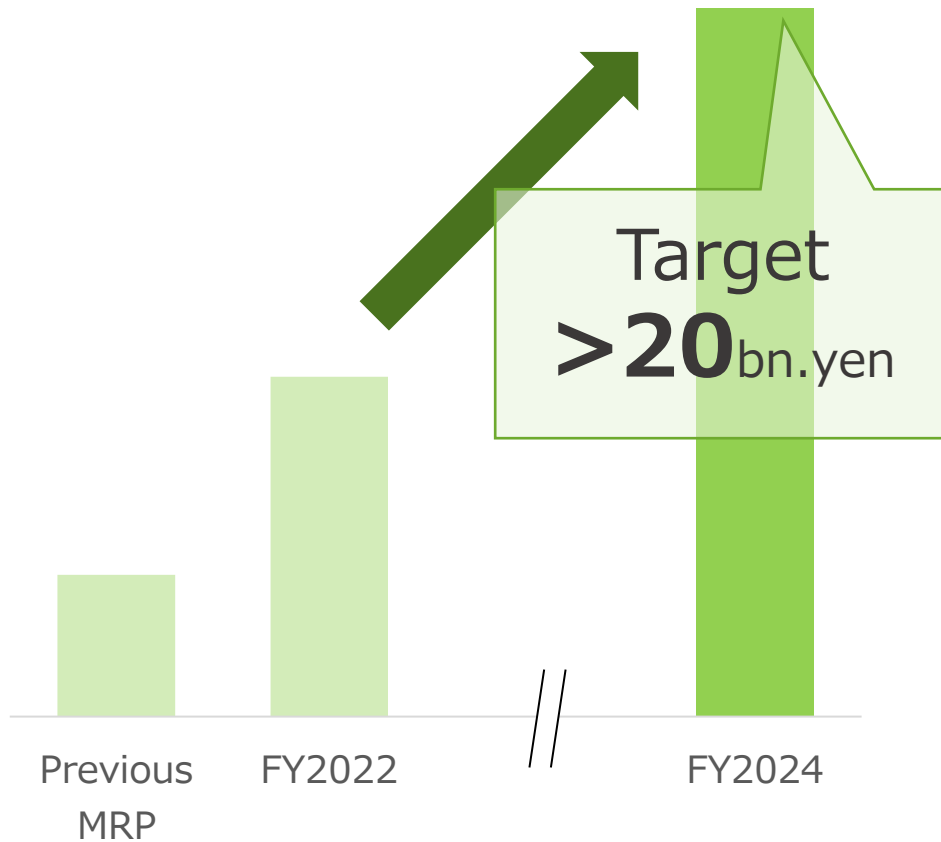
Flumioxazin Sales



Flumioxazin Business Strategy

- **Expand Sales along with increase of no till cultivation in North/Latin America.**
- **Accelerate PLCM activities in Asia and other areas and create opportunities for a variety of crops.**
- **Vision: contribute to business Expansion as well as Carbon Neutrality through further Sales in a global basis**

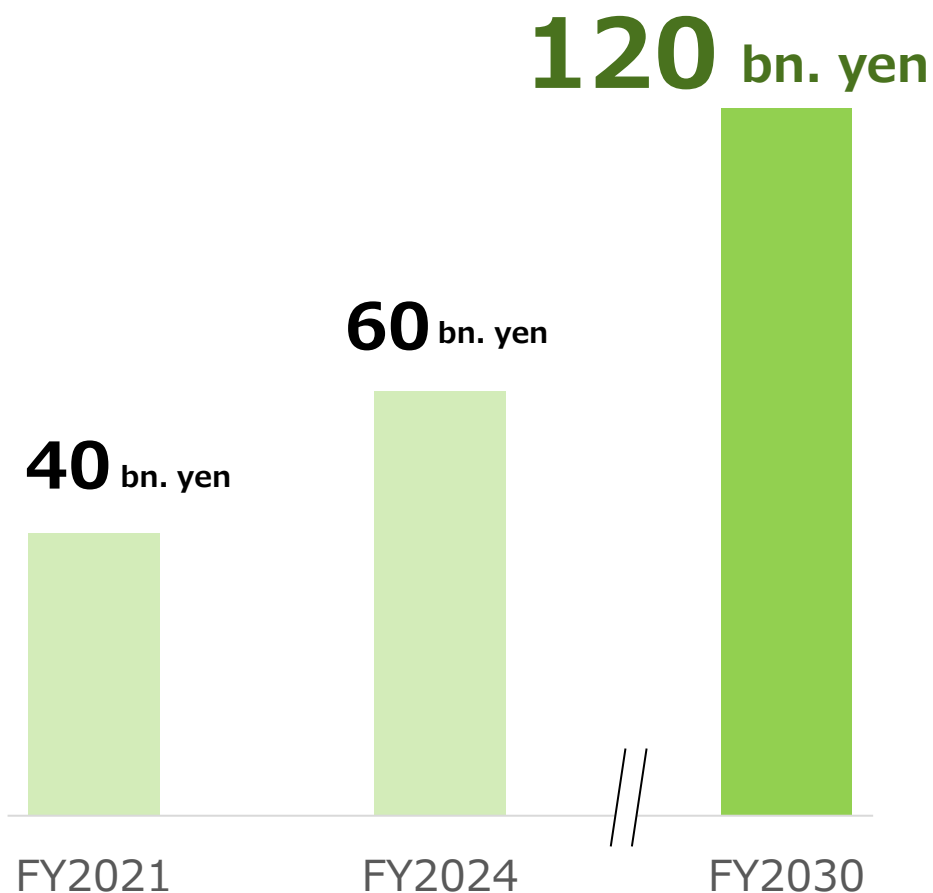
Image of Seed Treatment Business



Sales Drivers for Business

- **Branded Products + Alliance with Seed Companies**
- **Create added value through variety product portfolio in insecticides and fungicides area and biorationals**
- **Reduce impact on environment through reduction of volumes and count of treatment**

Biorational/Botanical Business Target



Actions to accelerate Business Expansion

R&D Accelerate Development and launch in pipeline

- Accelerate >40 R&D Projects during MRP period
- Expand Biorational Research Center (BRC)

Sale Strengthen functions

- Utilize SSBU in each region
- **USA) Start Direct Sales**
- Botanical) Expand Organic Ag

MFG Enhance suppliability

- **Expand Osage Site in USA**
- **Utilize Facility in Brazil** - Next Page

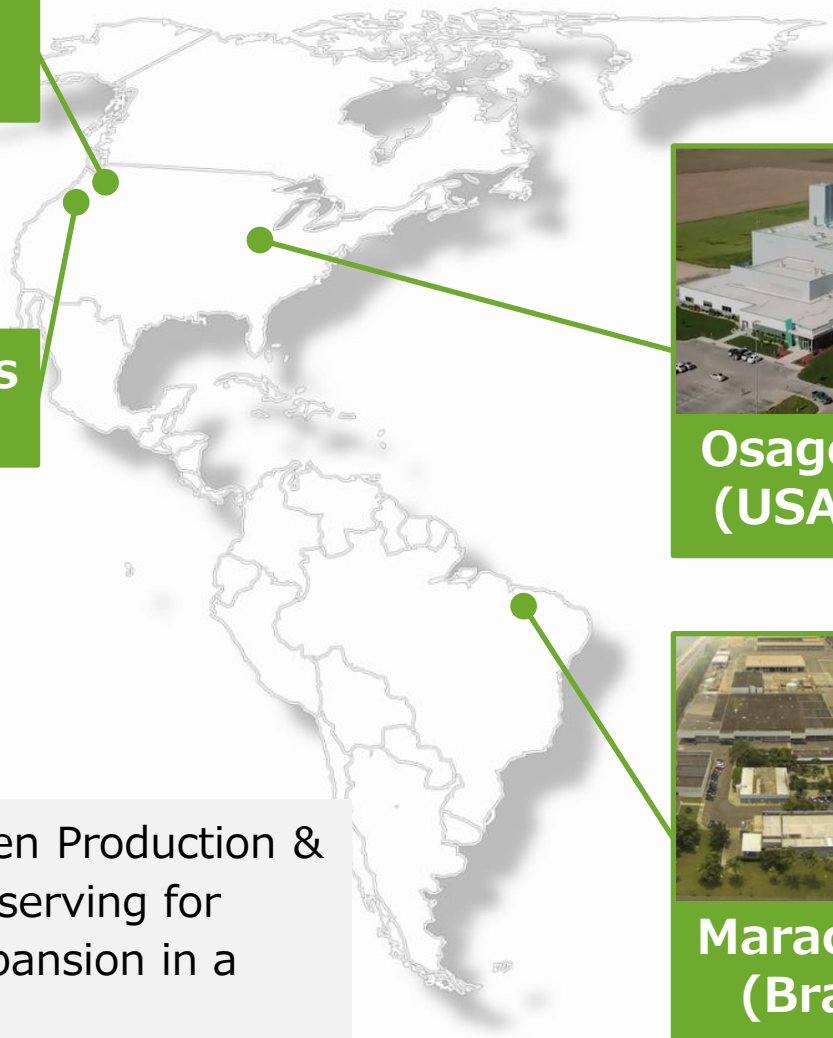
Biz. Strengthen Business Management and Expand Business Area

- Realize flexible resource allocation by reorganizing and simplifying reporting line
- Seeking for Business Area Expansion through M&A

Pace : Wapato
(USA, WA)

MA : Grants Pass
(USA, OR)

Optimize/Strengthen Production & Supply framework serving for future business expansion in a global scale



Osage Site
(USA, IA)

- Increase capacity of major process, such as fermentation and recovery (completed by 2024)
- Equip and expand Pilot Plant
- Intensively implement actions to reduce CO2 reduction, such as Prairie Restoration Projects and construction of Solar Field



Maracanaú
(Brazil)

- Completed Formulation Facility for Biorational (Plans to transfer to Brazil by 2023 summer)
- Transfer functions to where close to high-growth market
- Possible Export to other countries

New Organization

Biostimulant Business Unit

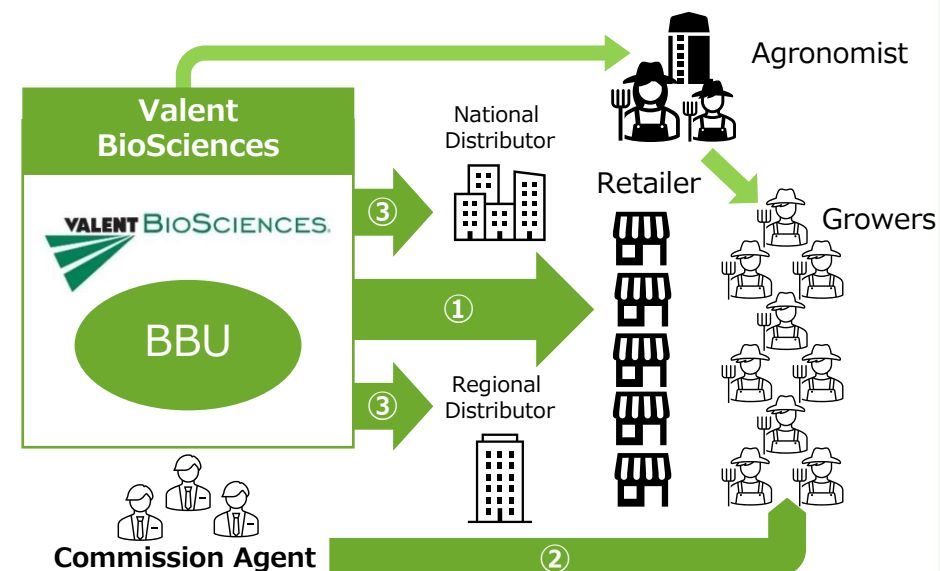
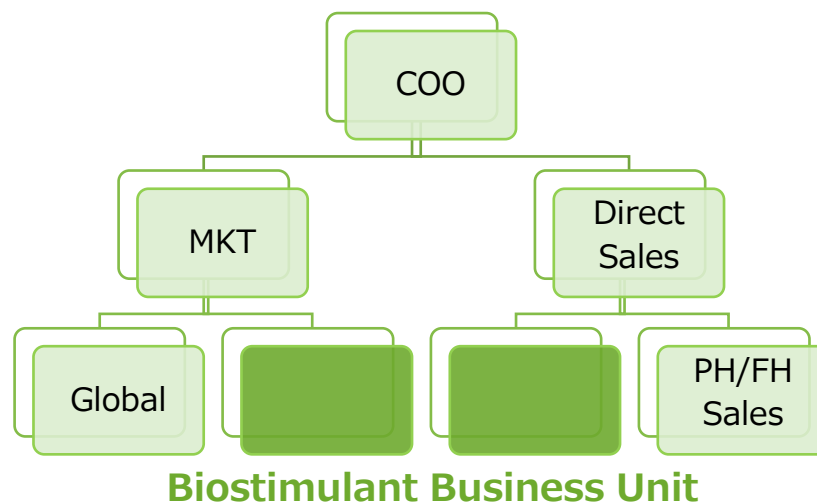
Organization

VBC Establish new sales organization with focus on Biostimulant & Mycorrhizae.
The new team consists of not only sales but marketing/registration and other experts

Strategy

Implement demand creation and sales activity close to growers in 3 ways.



















- ① Direct Approach to **Retailers Distribution partners**.
- ② Focus on demand creation activities in grower level
 - Utilize "Commission Agents"
- ③ **Select Distributors** who are aligned with VBC's sales/promotion strategy for MA products.



- Accelerate >40 R&D Projects planned during FY2022-2024MRP
- Expand Biorational Research Center to provide enough resources for all of R&D activities

VBC PJ List

(FY2022-2024)

 MycoApply (BR)	 Corn/Soybeans	 Corn/Soybeans
 Ingrain (C. America) SumiBlue Diamond (IN) MycoApply (EU)	 Rice	 Rice
 Promalin (IN)	 Tree Fruit/Nuts	 Tree Fruit/Nuts
 Sympatico (MY) MycoApply (MX) Zorda (Global)	 Vegetables	 Vegetables
 MycoApply (Plantation Crops) ABA (Sugarcane)	 Plantation	 Plantation
 VectoBac/VectoMax (GR)		 Mosquito Adulicide
		 Peanuts/Cotton

Year 2023: Establish **Production for Nucleic Acid Drug Substances**



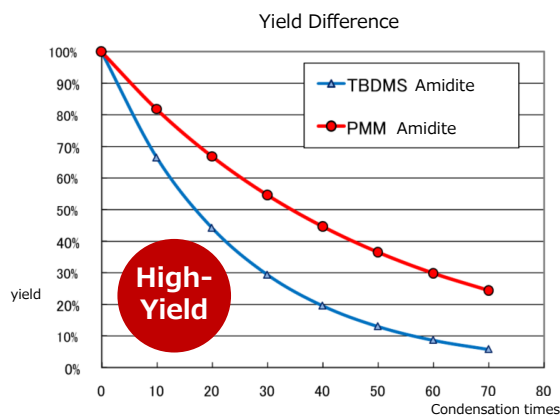
Expand Partnership
with customers
abroad



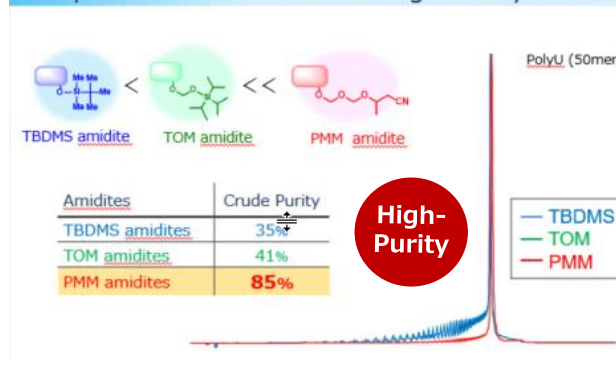
Complete large-scale
Production Site for high-
purity/long-chain
Nucleic Acid Drug
Substances



Our Technology Uniqueness /Competitiveness



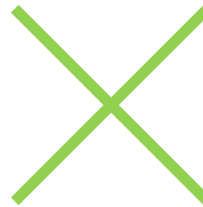
Comparison of Amidites for Long RNA Synthesis



Start Operation at new site in 2023

- Under construction of **gRNA manufacturing site** for genome editing therapy
- **Construction progressed well** and **start operation** as planned in 2023.

Re-attention towards SCC's Manufacturing Capability with domestic sites since COVID19

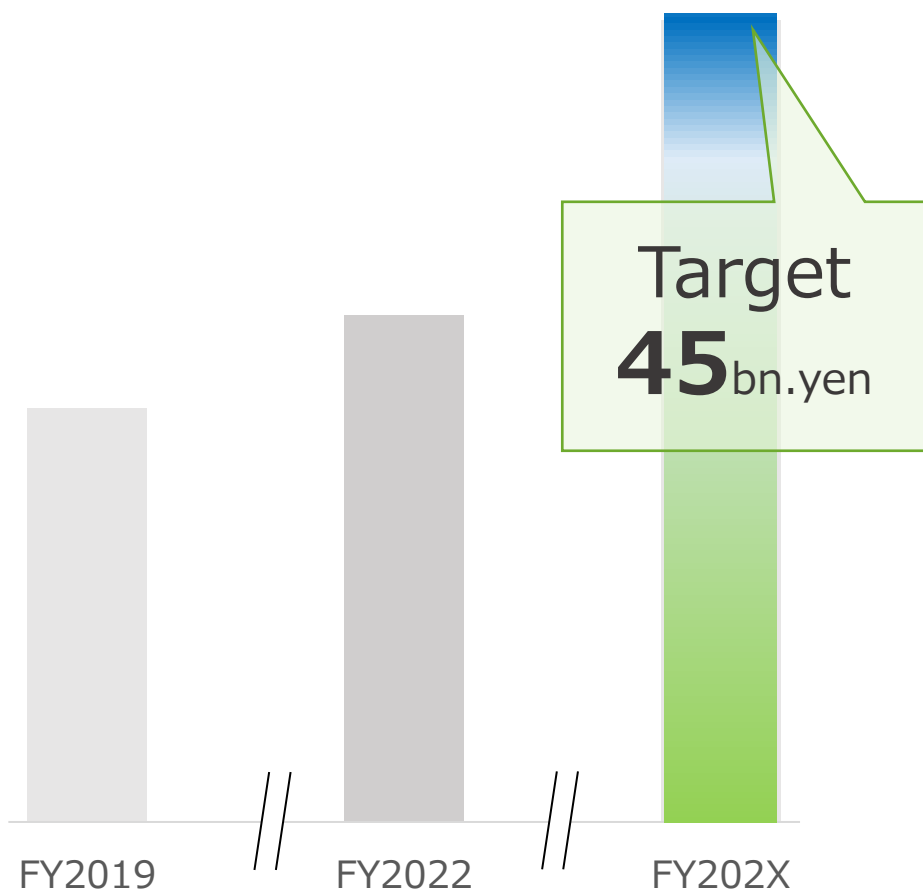


+ Start New Manufacturing Site in 2024

- Construct a new manufacturing site at Oita Works to enhance capacity to supply various high-quality APIs/Intermediates
- Establish position as a leading company in Japan for CDMO business



Business Performance Target



Nucleic Acid Business – Growth Driver

- Establish position as a leading company for CDMO business in the area of high-purity & long-chain nucleic acid
- Continuously pioneer new technology areas and drive the growth for entire business



Small Molecule Drugs – Solid Foundation

- Leverage our long-held experience and know-how such as enhancement of GMP level, and ensure position as a leading company for CDMO business in Japan

Cautionary Statement

Statements made in this document with respect to Sumitomo Chemical's current plans, estimates, strategies and beliefs that are not historical facts are forward-looking statements about the future performance of Sumitomo Chemical. These statements are based on management's assumptions and beliefs in light of the information currently available to it, and involve risks and uncertainties.

The important factors that could cause actual results to differ materially from those discussed in the forward-looking statements include, but are not limited to, general economic conditions in Sumitomo Chemical's markets; demand for, and competitive pricing pressure on, Sumitomo Chemical's products in the marketplace; Sumitomo Chemical's ability to continue to win acceptance for its products in these highly competitive markets; and movements of currency exchange rates.