

## FY2019-FY2021 Corporate Business Plan

March 12, 2019



Masakazu Tokura President

# Contents





## FY2016-FY2018 Progress Review for Current Corporate Business Plan



## Change and Innovation Create New Value

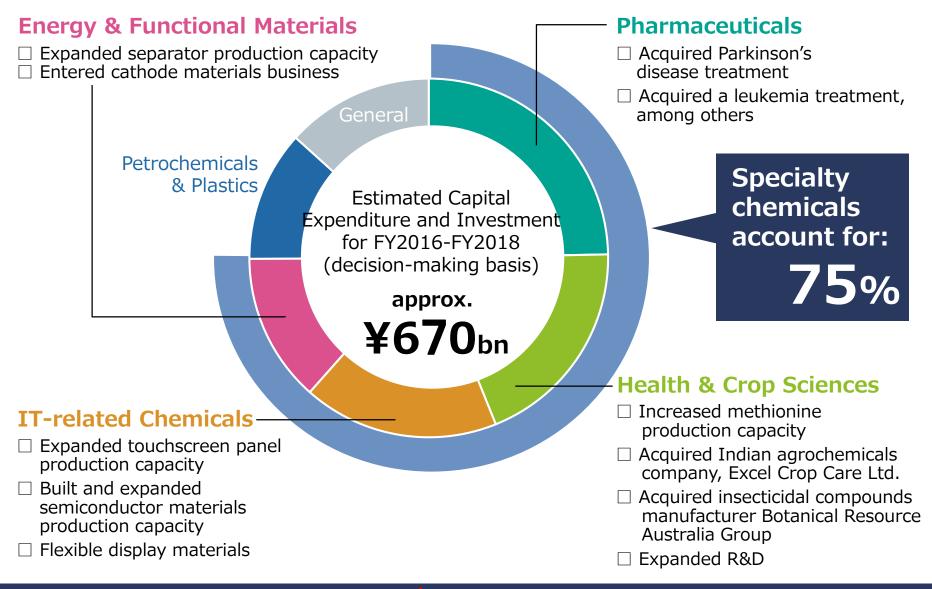


Promote globally integrated management

Ensure full and strict compliance Establish and maintain safe and stable operations **Current Corporate Business Plan:** 

Capital Expenditure and Investment Plan for FY2016-FY2018 (decision-making basis)

Change & Innovation 3.0 For a Sustainable Future

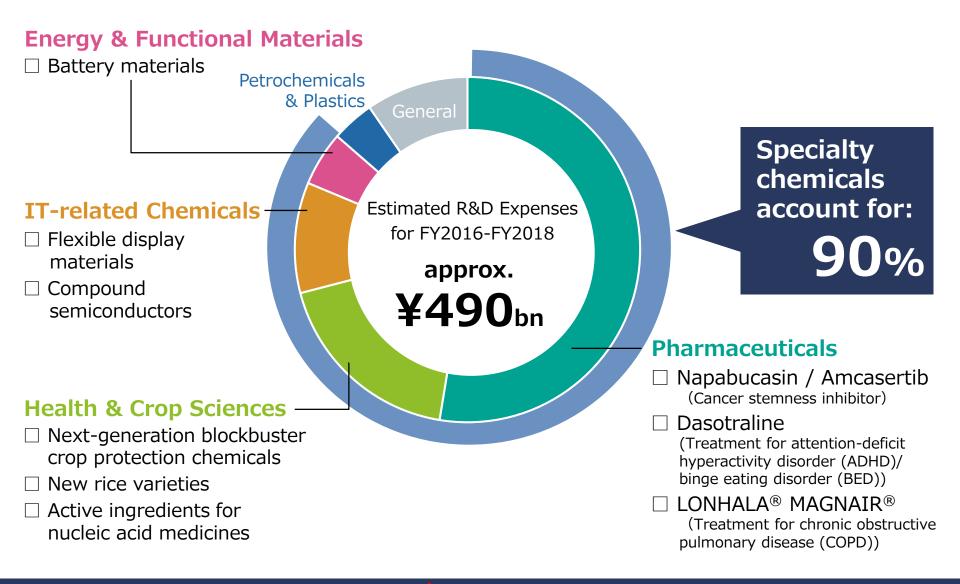


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**Current Corporate Business Plan:** 

Research and Development Expenses Plan for FY2016-FY2018

Change & Innovation 3.0 For a Sustainable Future



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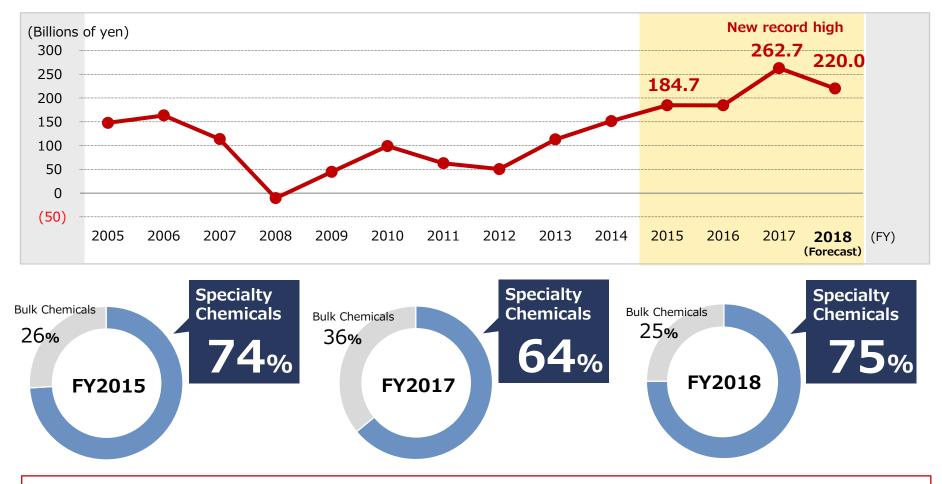
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#### Current Corporate Business Plan: Change in Business Portfolio

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#### Change in core operating income and its composition

\* Through FY2015: sum of operating income and equity in earnings of affiliates under J-GAAP.



#### Steady increase in profitability of specialty chemicals business



(Billions of yen)

	FY2018 Forecast	FY2018 Target	Change
Sales Revenue	2,410.0	2,540.0	-130.0
Core Operating Income	220.0	240.0	-20.0
Operating Income (IFRS)	190.0	190.0	±0
Net Income attributable to owners of the parent	120.0	110.0	+10.0
Naphtha Price	¥49,900/kl	¥45,000/kl	

\* Forecast and target both based on IFRS

Exchange Rate

¥110.86/\$

¥120.00/\$



(Billions of yen)

	FY2018 Forecast	FY2018 Target	Change	Reason for Change
Specialty Chemicals	171.0	206.0	-35.0	
Energy & Functional Materials	22.0	18.0	+4.0	
IT-related Chemicals	26.0	34.0	-8.0	Yen appreciation
Health & Crop Sciences	42.0	89.0	-47.0	Lower methionine price and yen appreciation
Pharmaceuticals	81.0	65.0	+16.0	Increase in LATUDA sales
Bulk Chemicals	57.0	39.0	+18.0	
Petrochemicals & Plastics	57.0	39.0	+18.0	Improved margins of petrochemicals
Others	-8.0	-5.0	-3.0	
Total	220.0	240.0	-20.0	



#### **Change in Cash Flows and Interest-Bearing Debt**

(Billions of yen)

	FY2013-2015	FY2016-2018 (Target)	FY2016-2018 (Forecast)
Cash flows from operating activities	716.4	680.0	670.0
Cash flows from investing activities	-245.5	* -800.0	-550.0
Free cash flows	470.9	-120.0	120.0

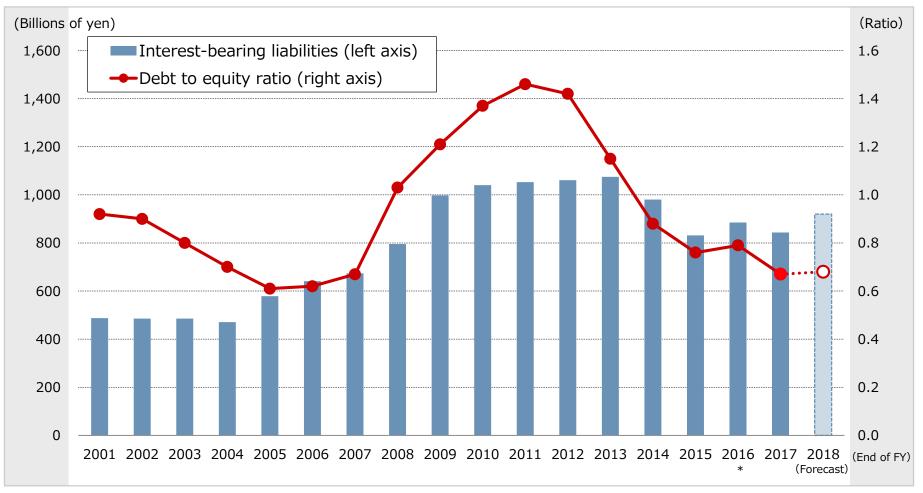
\* Including investment in Rabigh Phase II project

(Billions of yen)

	End of FY2015	End of FY2018 (Target)	End of FY2018 (Forecast)
Interest-bearing liabilities	831.5	1,000.0	920.0



#### **Interest-Bearing Liabilities and D/E Ratio**



\* J-GAAP used through FY2016, IFRS adopted from FY2017. Information for FY2016 restated in accordance with IFRS.

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## FY2019-FY2021 New Corporate Business Plan

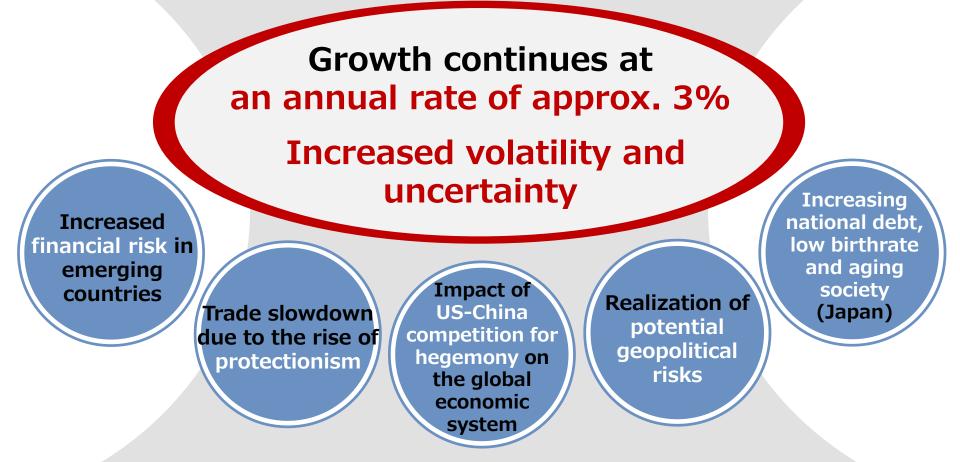
- **1. Business Environment**
- 2. Basic Policy
- **3. Performance Targets**
- 4. Major Action Plan







## **Global economy and risk factors**





## Create new value through digital innovation

Solve issues facing society and contribute to sustainability through innovation





Trend







Slogan of the next medium-term management plan

# Change & Innovation 3.0 For a Sustainable Future

In view of the advent of Society 5.0 (super-smart society)

- Accelerate innovation
- Promote digital innovation to improve productivity significantly
  - Contribute to building a sustainable society

2. Basic Policy

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Change & Innovation 3.0 For a Sustainable Future

Accelerating the development of next-generation businesses



Further improve business portfolio

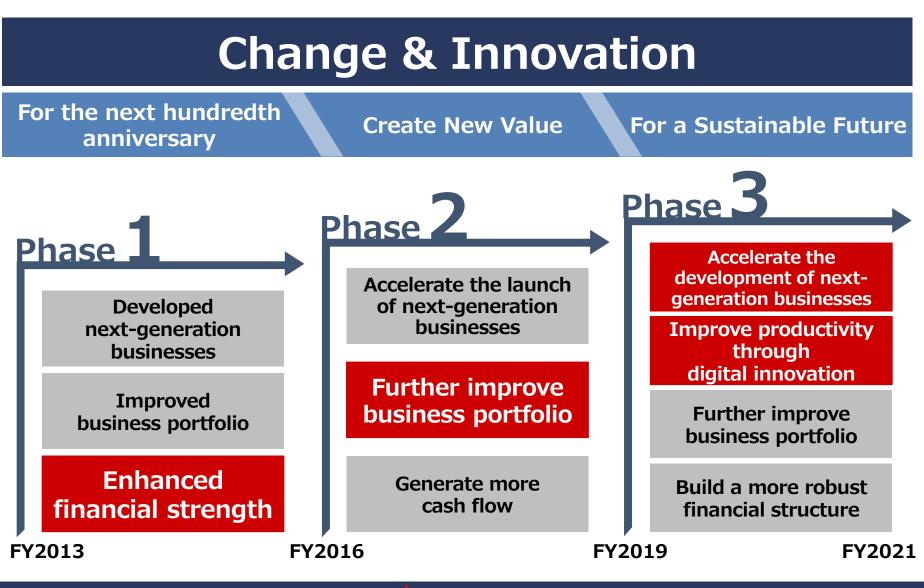
Change & Innovation 3.0 For a Sustainable Future **4** Build a more robust financial structure

Employ, develop and leverage human resources for sustainable growth Ensure full and strict compliance and maintain safe and stable operations

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2. Basic Policy

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Corporate Business Plan

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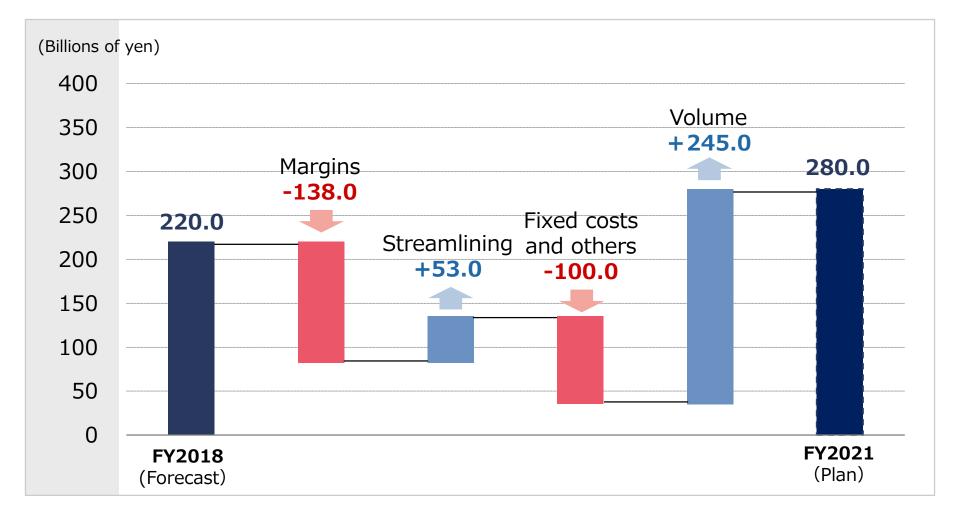
(Billions of yen)

	FY2018 Forecast	FY2021 Target	Change
Sales Revenue	2,410.0	2,950.0	+540.0
Core Operating Income	220.0	280.0	+60.0
Operating Income (IFRS)	190.0	260.0	+70.0
Net Income attributable to owners of the parent	120.0	150.0	+30.0
Naphtha Price	¥49,900/kl	¥51,000/kl	

Naphtha Price	¥49,900/kl	¥51,000/kl
Exchange Rate	¥110.86/\$	¥110.00/\$



#### 3. Performance Targets: Change In Core Operating Income (FY2018 VS FY2021)





(Billions of yen)

	FY2018 Forecast	FY2021 Plan	Change	Reason for Change
Specialty Chemicals	1,585.0	1,980.0	+395.0	
Energy & Functional Materials	285.0	390.0	+105.0	Increase in battery materials sales volume
IT-related Chemicals	405.0	520.0	+115.0	Increase in OLED materials sales volume
Health & Crop Sciences	380.0	480.0	+100.0	Increase in sales volume of crop protection products and methionine
Pharmaceuticals	515.0	590.0	+75.0	Increase in sales volume of pharmaceuticals in North America
Bulk Chemicals	770.0	910.0	+140.0	
Petrochemicals & Plastics	770.0	910.0	+140.0	Increase in sales volume of products of PRC phase II
Others	55.0	60.0	+5.0	
Total	2,410.0	2,950.0	+540.0	



#### 3. Performance Targets:

#### **Core Operating Income by Sector**

#### Change & Innovation 3.0 For a Sustainable Future

(Billions of yen)

	FY2018 Forecast	FY2021 Plan	Change	Reason for Change
Specialty Chemicals	171.0	235.0	+64.0	
Energy & Functional Materials	22.0	31.0	+9.0	Increase in battery materials sales volume
IT-related Chemicals	26.0	35.0	+9.0	Increase in OLED materials sales volume
Health & Crop Sciences	42.0	75.0	+33.0	Increase in sales volume of crop protection products and methionine
Pharmaceuticals	81.0	94.0	+13.0	Increase in sales volume of pharmaceuticals in North America
Bulk Chemicals	57.0	49.0	-8.0	
Petrochemicals & Plastics	57.0	49.0	-8.0	Lower margins for MMA
Others	-8.0	-4.0	+4.0	
Total	220.0	280.0	+60.0	

3. Performance Targets: Financial Metrics

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	FY2015	FY2018 Forecast	2021 Target	Medium- to Long-term Targets Consistently achieve the following targets:
ROE	9.6%	12.4%	12.5%	Over <b>10</b> %
ROI	5.6%	7.1%	7.1%	Over 7%
D/E ratio	0.8	0.7	0.7	approx. <b>0.7</b>
Dividend payout ratio	31%	30%	_	approx. <b>30%</b>
Profit growth*	_	_	13%	over <b>7%</b> per year

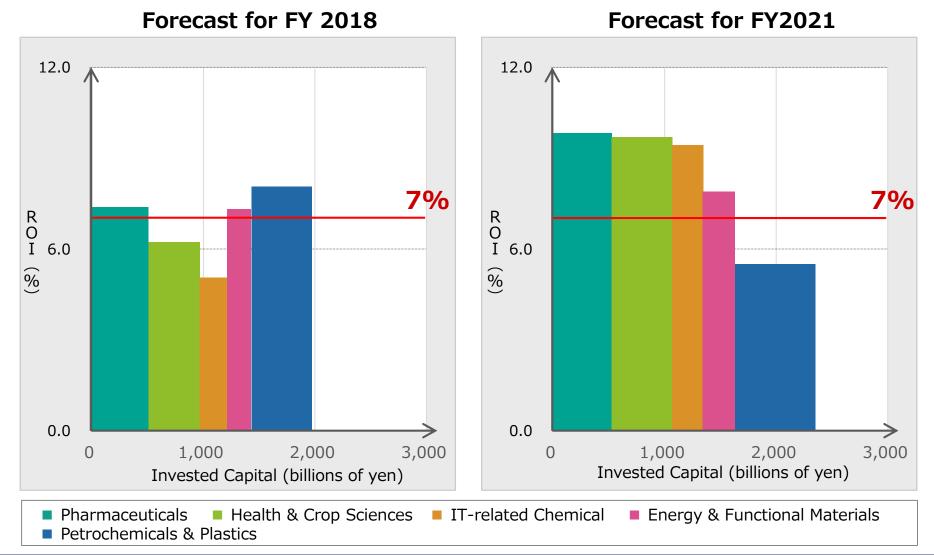
\* Compounded annual growth rate of Net Income attributable to owners of the parent from FY2015

3. Performance Targets: **ROI by Sector** 

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#### **Invested Capital and ROI by Sector**



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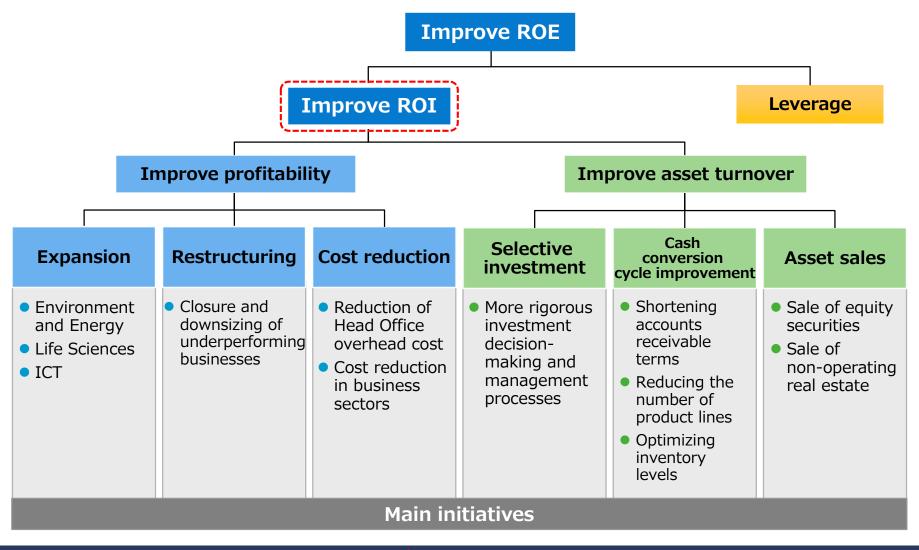
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3. Performance Targets: ROI Tree Diagram

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#### **Initiatives for improving ROI and ROE**

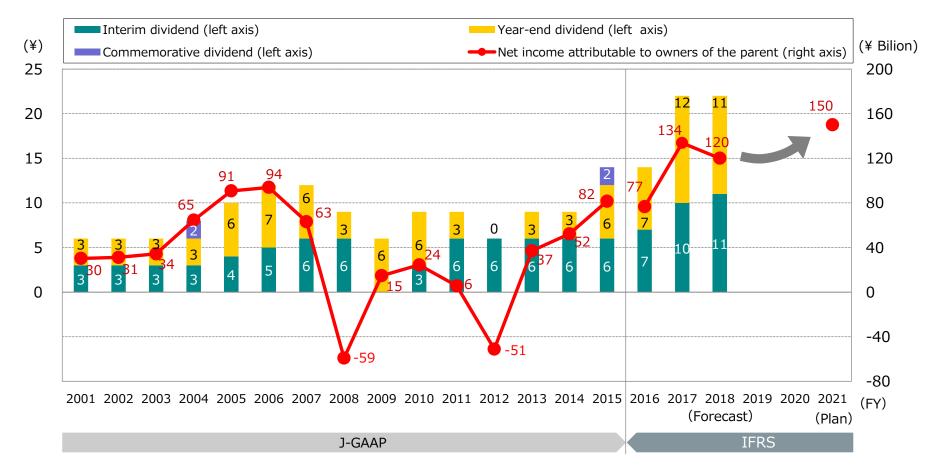


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# 3. Performance Targets: **Dividend Policy**

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We consider **shareholder return as one of our priority management issues** and have made it a **policy to maintain stable dividend payment**, giving due consideration to our business performance and a dividend payout ratio for each fiscal period, the level of retained earnings necessary for future growth, and other relevant factors. We aim to maintain a **dividend payout ratio of around 30%** over the medium to long term.

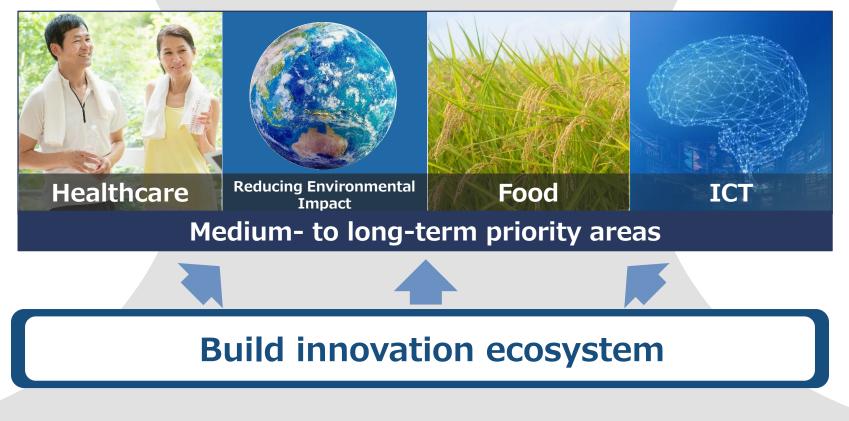




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### Accelerate the development of next-generation technologies and create new businesses

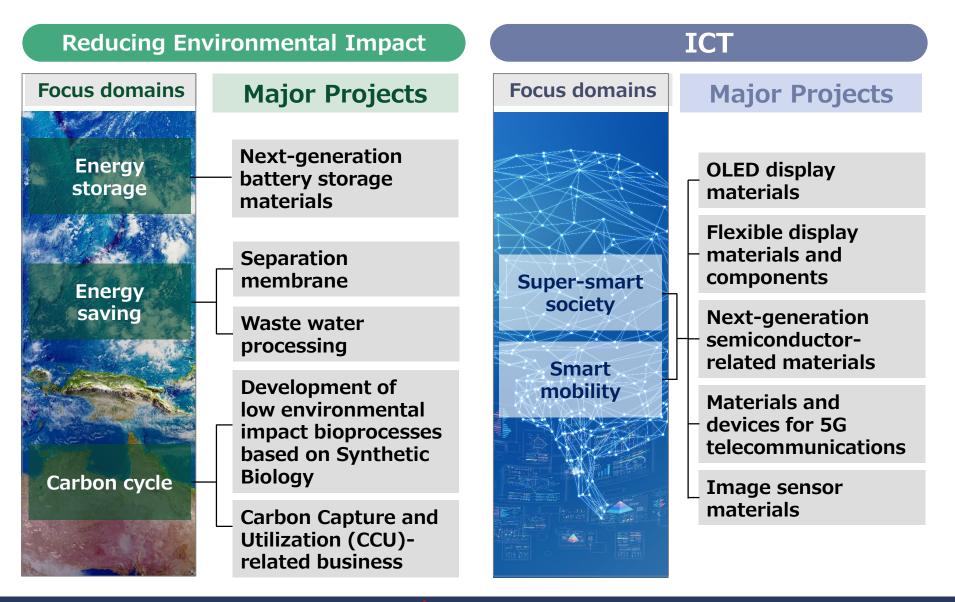
for a sustainable society



#### Accelerate the Development of Next-Generation Businesses: Focus Domains in the Four Priority Areas

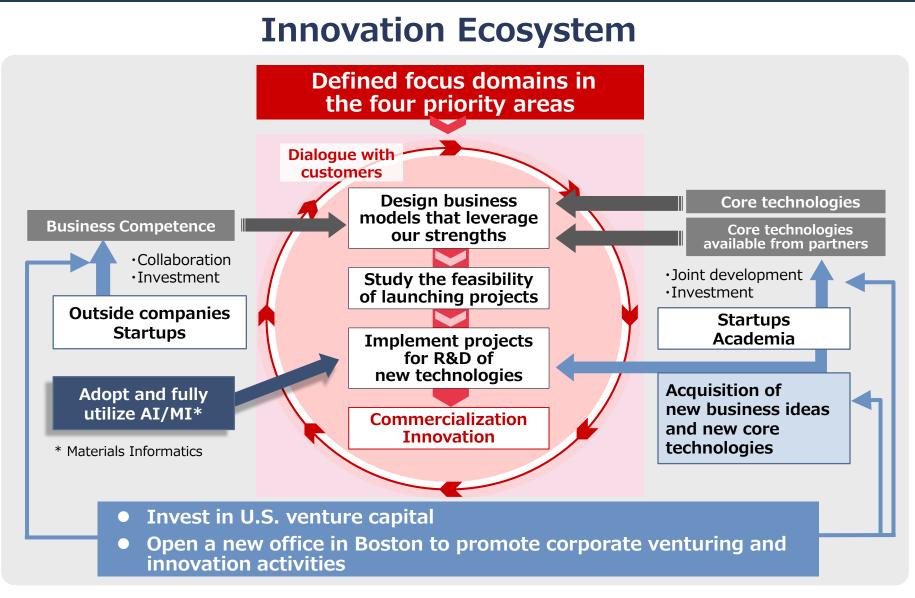
Неа	Health care		Food
Focus domains	Major projects	Focus domains	Major projects
	Nucleic Acid Medicine		
Advanced	— Cell Therapy	Precision	Precision agriculture, including data
medical care	- Theranostics	agriculture	collection, analysis, and prediction
	Frontier businesses (Healthcare solutions		
Preventive care solutions	not limited to pharmaceuticals)	Food sensing	On-site food inspection
	Nutraceuticals (functional food)		
Early diagnosis and health	Physical condition visualization sensor	Breeding	Breeding using genome editing technology
examination			

Accelerate the Development of Next-Generation Businesses: Focus Domains in the Four Priority Areas





Accelerate the Development of Next-Generation Businesses: Construction of Our Innovation Ecosystem





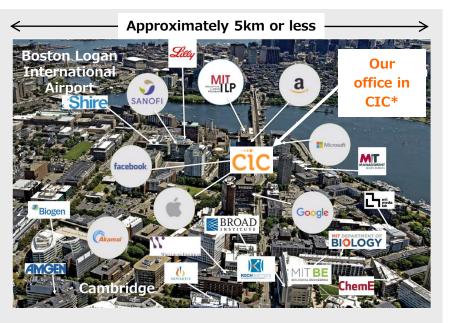
#### Relocate our corporate venturing and innovation office in U.S. to the Boston/Cambridge area

**CVI** (Corporate Venturing & Innovation Office) Accelerate collaboration with startups and academia and exploration of new business opportunities

#### Advantages of Boston/Cambridge area

- One of the World's largest innovation hubs
- Highest level of concentration of top universities and startups
- Focus on innovative technologies that require long-term commitment, such as drug discovery, biotechnology, materials, and robotics

\*CIC : Cambridge Innovation Center



# Building truly valuable partnership through strengthening access to the U.S. innovation ecosystem

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### Improve Productivity through Digital Innovation

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# Significant improvement in efficiency and quality

in production, R&D, supply chain management and administration

**Next Steps** 

	Previous Initiatives	F	Higher-performance production by		
Digital Diant	Partial introduction of AI and IoT		leveraging AI and IoT		
Digital Plant			More efficient, higher-performance R&D		
	Partial introduction of		by leveraging AI		
Digital R&D	Materials Informatics (MI)		Full-scale introduction of S/4HANA		
Digital SCM	Partial introduction of S/4HANA Partial introduction of RPA Introduction of Office365		Job standardization and work style reform		
(Including marketing)			Full use of robotics		
Digital Office			More active communication		
			Paperless		
IT-related investment during					

the next corporate business plan period : ¥60bn

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## Improve Productivity through Digital Innovation: Digital Plant

#### Change & Innovation 3.0 For a Sustainable Future

By 2065, Japan's labor force will decrease to approximately 60% of 2016\*

## Urgently requires the development of plant operation systems that help achieve high labor productivity

#### Necessary elements

#### **Human Resources**

- Data scientists
- Data engineers

#### Software and AI

- Technology for detecting signs of malfunction
- Software sensing technology

#### **IoT Technology**

- Development of data platforms
- Workflow optimization

### Output

- Support decision making
- Streamline work flows
- Monitor the operation of equipment for signs of malfunction
- Stabilize and automate operations
- Optimize production operations

#### Vision

1. Chartons

### Significant improvement in labor productivity

Application

\* (Source) Mizuho Research Institute Ltd.

#### Corporate Business Plan

## Improve Productivity through Digital Innovation: Digital R&D

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Significant changes in the social environment provide opportunities to create new businesses

In order not to miss out on these opportunities

## Essential to improve the efficiency and effectiveness of R&D activity

#### Necessary elements

#### **Human Resource**

- Data scientists
- Data engineers

#### Database (using big data)

- Development of data platforms
- Use of electronic laboratory notebooks

#### Data Analysis (using AI)

- Development of predictive technology
- Development of Materials informatics platform

#### Output

- Drastically shorten the time used for searching and designing materials
- New discoveries that cannot be achieved through experimental development

#### Vision

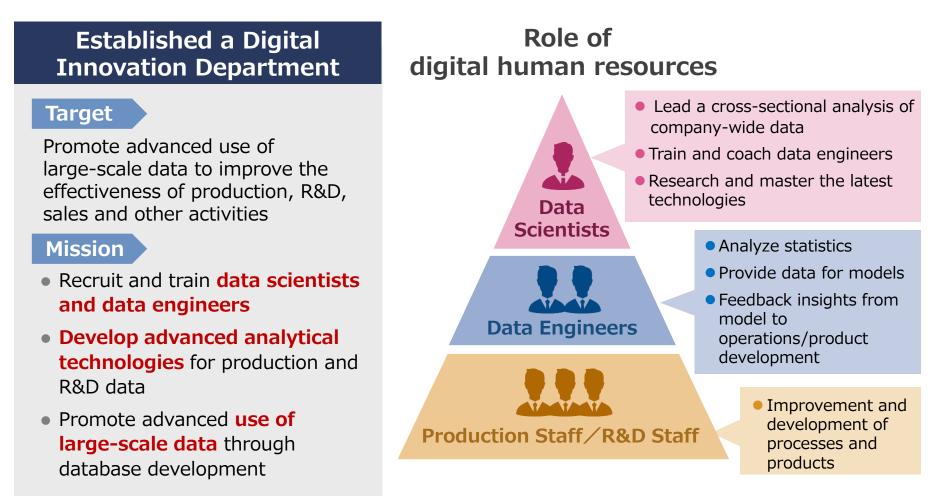
Improved productivity in R&D (accelerate innovation)

Materials Informatics for all researchers

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## Improve Productivity through Digital Innovation: Establish a Digital Innovation Department

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## Further digital innovation through full-scale adoption of IT technology

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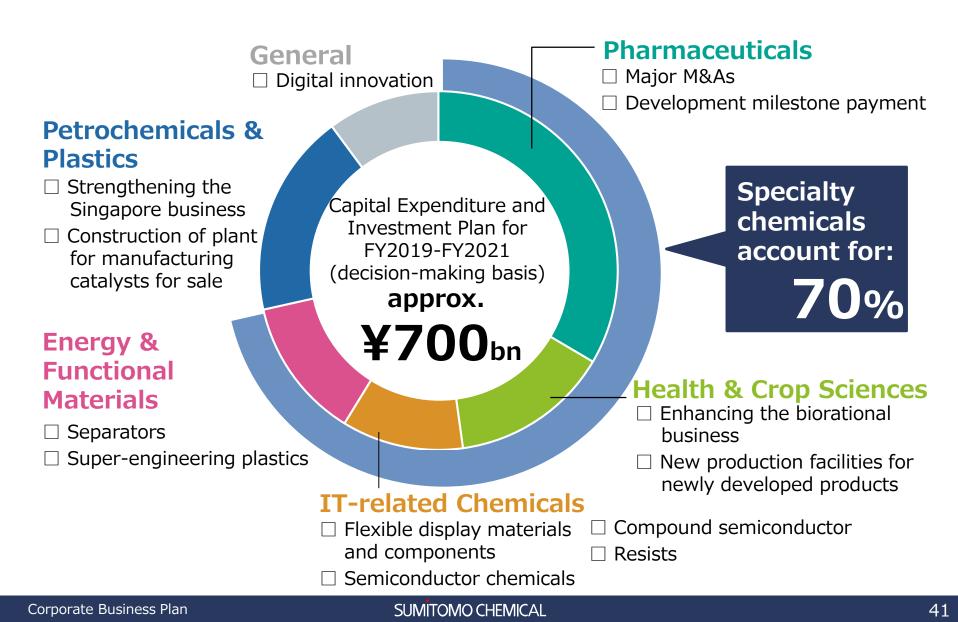


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## **Further Improve Business Portfolio:** Capital Expenditure and Investment Plan for FY2019-FY2021 (decision-making basis)

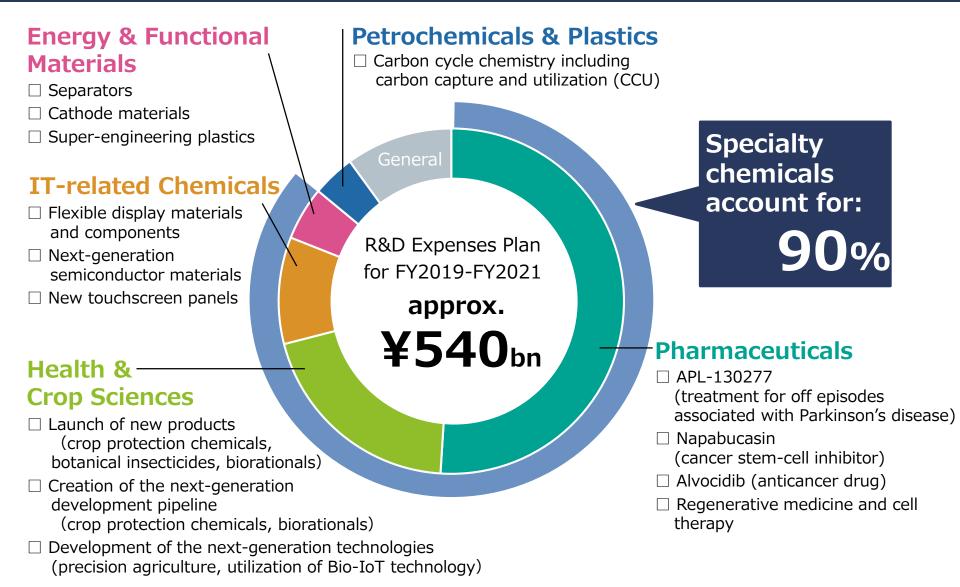
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### Further Improve Business Portfolio: Research and Development Expenses Plan for FY2019-FY2021

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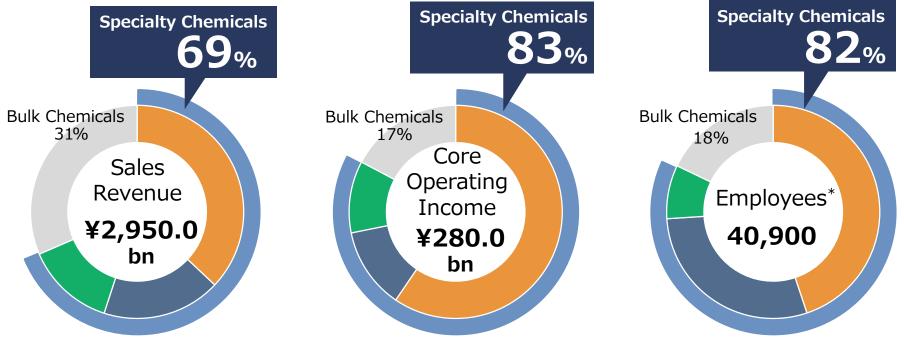
**Further Improve Business Portfolio:** 

Sales Revenue, Core Operating Income, and Employees

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## Forecast for FY2021

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\* Including contract employees and part-time and temporary staff



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## Policy

- Generate cash flow from the implemented capital expenditures and investments as planned
  - Manage costs and assets through disciplined financial operations

Improve cash flow	Rationalization, shorten cash conversion cycle	Reorganize and exit under-performing businesses
	conversion cycle	businesses

## **Financial Discipline**

Indicators	Targets
Debt to equity ratio	approx. 0.7
Interest-bearing liabilities	Less than 1.1 trillion yen

#### Major initiatives

- Total investment over the three years: less than 700 billion yen
  Timely review of capital expenditures and investment plans
  - Thoroughly utilize cash surplus of the group companies



## Build a More Robust Financial Structure: Rationalization & Improvement of Cash Conversion Cycle

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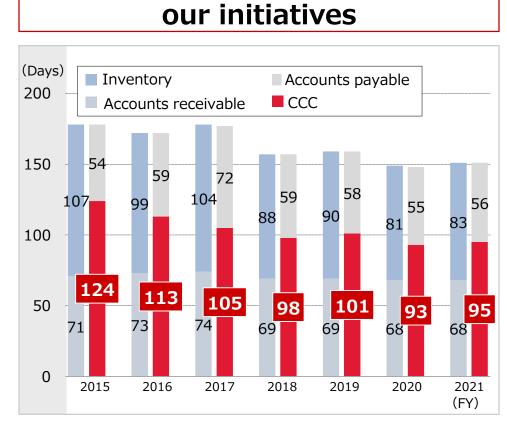
## Rationalization

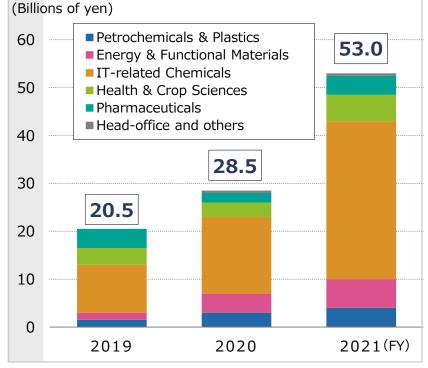
¥53 billion in FY2021 through initiatives such as reducing purchasing costs and improving yields Improve Cash Conversion Cycle (CCC)

Improve CCC by **23%** in FY2021

compared with FY2015 by

continuing and strengthening





Corporate Business Plan



#### Change & Innovation 3.0 For a Sustainable Future

(Billions of yen)

	FY2013-FY2015	FY2016-FY2018 (Forecast)	FY2019-FY2021 (Target)
Cash flows from operating activities	716.4	670.0	740.0
Cash flows from investing activities	-245.5	-550.0	*-815.0
Free cash flows	470.9	120.0	-75.0

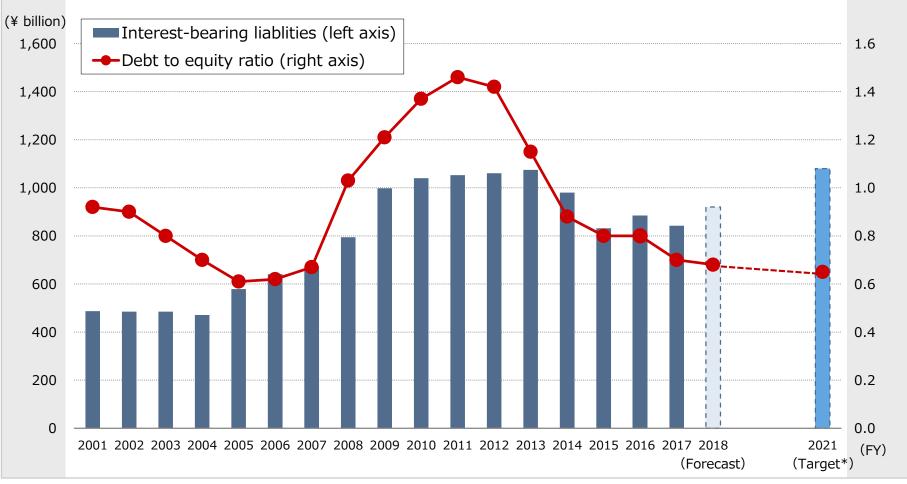
\* Including investment in Rabigh Phase II project

(Billions of yen)

	End of FY2015	End of FY2018 (Forecast)	End of FY2021 (Target)
Interest-bearing liabilities	831.5	920.0	1,080.0

## Build a More Robust Financial Structure: Interest-Bearing Liabilities and Debt to Equity Ratio

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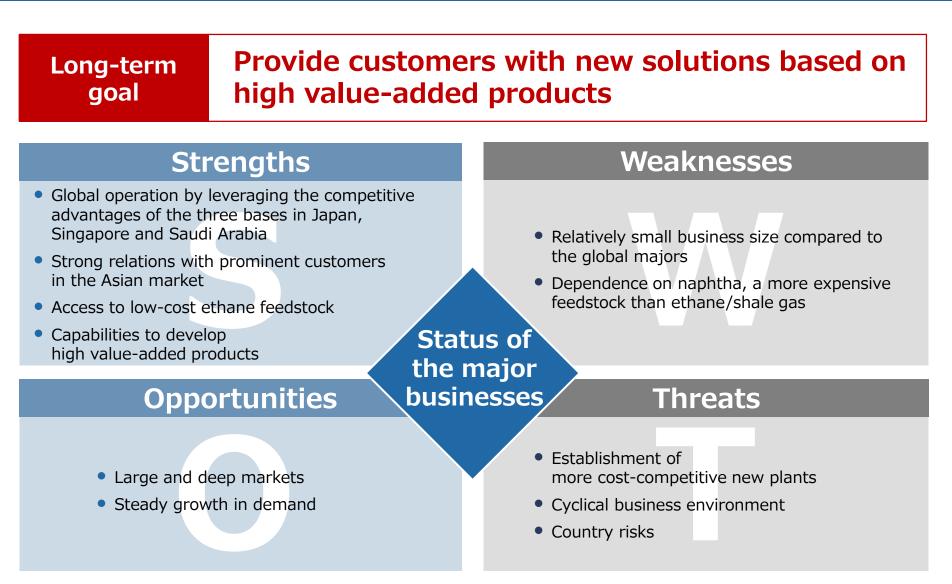
\* Including investment in Rabigh Phase II project

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## **Business Strategy by Sector**



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## **Business Strategy – Petrochemicals & Plastics**

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## Action plan

- Strengthen domestic business
- Expand capacity and enhance profitability of Singapore business
- Maintain stable operations at PRC phase I and make PRC phase II into a business that constantly contributes to the sector's performance
- Strengthen technology licensing business

## Major issues

- Restructuring of underperforming businesses
- R&D into carbon cycle chemistry, including carbon capture and utilization technologies, to create a sustainable society

## FY2021 Target

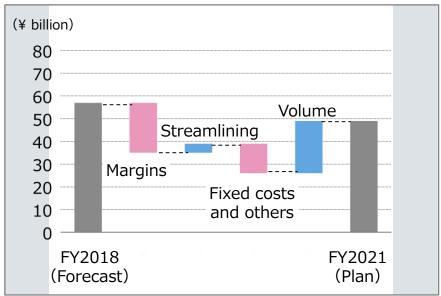
Sales Revenue

¥910.0 billion

Core Operating Income

¥49.0billion

#### Core operating income variance analysis (FY2018 v/s FY2021)



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#### **Petrochemicals & Plastics Topics:**

## **Development of Technologies for Environmentally Friendly Products**

Change & Innovation 3.0 For a Sustainable Future Large Refill **R&D** focus **Refill Pouch** Bottle Pouch (HDPE) (EPPE+LLDPE) **R&D** of plastics products that Weight of packaging contribute to 3R's 洗剤 19 1.8 materials(q) per (reduce, reuse, recycle) Detergent 100g of contents Transportation Ο  $\wedge$ efficiencv Lighter packaging Bag drop strength Ο  $\wedge$ Returnable box Longer product life Cardboard **Returnable Box** (Expanded paper box PP sheet) **Promotion of reusable products** Consumption of 1.4 24.9 packaging materials (kg/year) Ο X Reusability Number of usable Returnable 50 1 times Refill Sheeting for (per year) boxes pouches ·Insect-resistant agriculture Water resistance cereal bags Ο Load bearing X Cleanness

Environmental aptitude

**Utility value** 

Further enhance environmental friendliness and utilization value of plastics products contributing to 3R's

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## Long-term goal

Contribute to solving environmental and energy issues through research and development with a long-term perspective and the resulting innovative technologies

#### Strengths Weaknesses Superior product performance using Relativelly small business differentiated technologies Cost competitiveness Reliability of products proved in use by customers Status of the major Threats **businesses Opportunities** Sophistication of performance Market decline due to change requirements against the backdrop of in EV promotion policies increasing battery capacity Paradigm shift in Expansion of the environment- and secondary batteries energy-related markets

## Business Strategy – Energy & Functional Materials Sector

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## **Action plan**

- Expand sales of core products (battery materials, super engineering plastics, etc.), accelerate R&D
- Shift to high value-added products
- Improve profitability in underperforming businesses and products

## **Major issues**

 Create new businesses in the fields of environment and energy and high-performance materials (CO<sub>2</sub> separation membranes, etc.)

## FY2021 Target

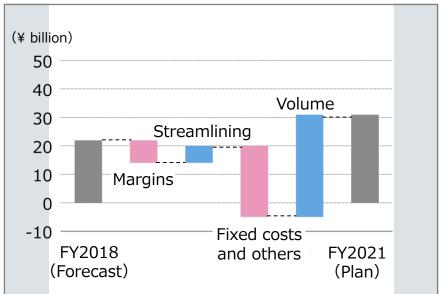
Sales Revenue

¥390.0 billion

Core Operating Income ¥

¥31.0billion

#### Core operating income variance analysis (FY2018 v/s FY2021)

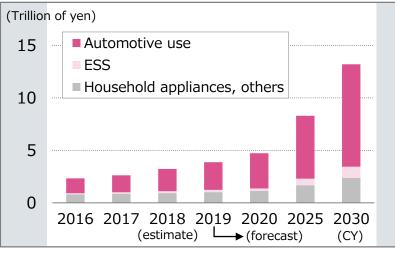




Energy & Functional Materials Sector Topics: Separator Business

## **Increasing demand for high-capacity batteries**

#### Market Outlook for Lithium-ion Secondary Batteries



(Source) "Future Outlook of Energy, Large Scale Secondary Battery, and Materials 2018; Energy Devices" by Fuji Keizai



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## Initiatives to expand lithium-ion secondary battery separator business

## **1** Expand production capacity

Timely decision-making for investment in response to growing demand

## 2 Deep cost reduction

Increase coating speed; adopt low-cost materials; reduce coating volume, etc.

## **3** Development of new substrates

Meet the requirements for high-capacity batteries

### New Corporate Business Plan Targets

	FY2018	FY2021
Volume	300 million m <sup>2</sup>	600 million m <sup>2</sup>
(Ratio of in-house developed substrate)	<25%	>30%

Corporate Business Plan

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## Long-term goal

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Deliver new value that responds to the changes in the ICT industry by leveraging our material development capabilities in collaborative development with customers

#### Strengths

- Offering a wide range of display materials
- Established market needs-driven supply chains
- Material development capabilities as a diversified chemical company
- Nano-level micro surface analysis technology

#### **Opportunities**

- Fast-growing organic LED displays market
- Rising demand for flexible displays
- Expanding Chinese semiconductor market

#### Weaknesses

- Heavy reliance on some specific products
- High sensitivity to exchange rate movements
- Status of the major businesses

#### Threats

• Intensifying competition in the maturing LCD market

## **Business Strategy – IT-related Chemicals Sector**

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### **Action plan**

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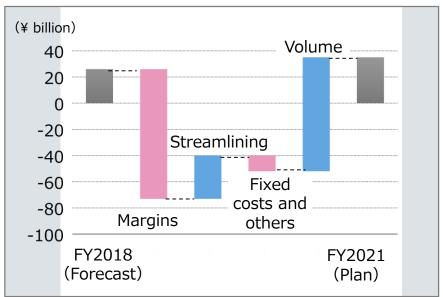
- Structural reform of polarizing film business
- Secure returns from the investment in the semiconductor materials business
- Expand touchscreen panel product portfolio

## Major issues

- Develop next-generation businesses
  - Smart mobility
  - Next-generation handsets
  - Sensor material



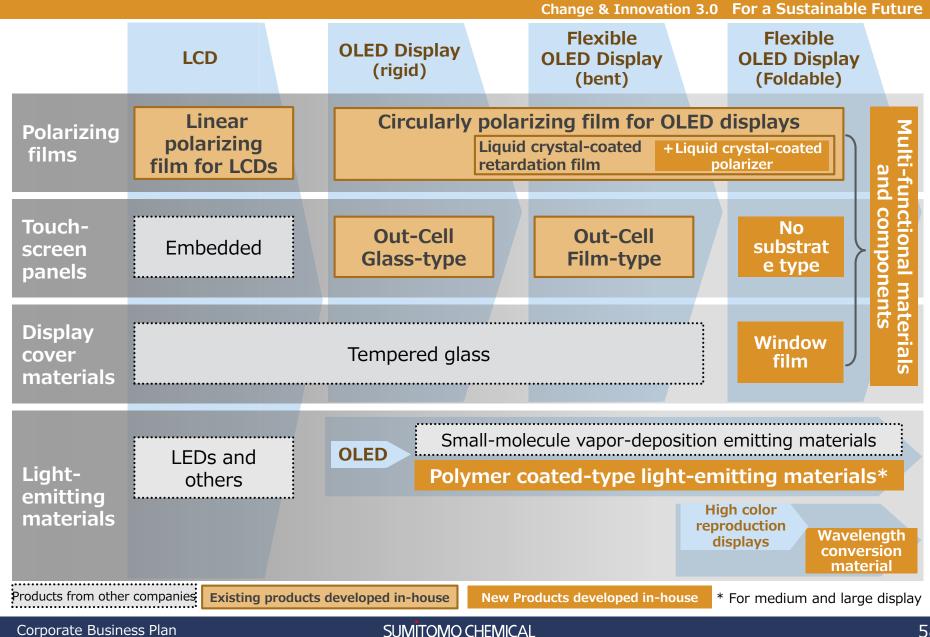
#### Core operating income variance analysis (FY2018 v/s FY2021)





## IT-related Chemicals Sector Topics:

## Advance in Display Technology and Our Product Lineup



## Initiatives in the Mobility Sector

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Focusing on developing components and materials to support the automotive industry's transformation with an eye toward the CASE (connected, autonomous,

shared, electric) era

#### Petrochemicals & Plastics Sector

#### Resins

- PMMA
- GFPP\*

Windscreen, roof materials

> Developed PMMA-based transparent resin



\* Glass fiber reinforced polypropylene

Functional Materials Sector

- Super Engineering Plastics
- PES
- LCP

### Lithium-ion Battery Materials

- Separators
- Cathode materials
- High purity alumina

IT-related Chemicals Sector

#### Sensor

Epiwafers for VCSEL

### **Display materials**

- High-durability polarizing films
- High-durability touchscreen panels
- Polymer OLED materials



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## **Characteristics of 5G communications**



Not only to bring a significant improvement in mobile phone services, but to open up new business opportunities in areas such as autonomous driving and telemedicine.

## **Our 5G-related materials**

• LCP

(High frequency substrate materials for 5G communications)

## GaN epiwafers

(5G communication wireless base station)

• GaAs epiwafers (5G devices)

Battery and display-related materials

- Polarizing films for OLED · Touchscreen panels
- •Flexible display materials •GaAs epiwafers for VCSEL
- ·Separators ·Cathode materials ·Alumina



## Business Strategy – Health & Crop Sciences Sector

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## Long-term goal

Contribute to solving global issues related to food, health, hygiene and the environment by leveraging our excellent research and development capabilities

### Strengths

- Excellent R&D capabilities and the robust development pipeline of crop protection chemicals and biorationals
- Differentiated technologies and products in niche areas
- Products with high market share
- Alliances with major overseas agrochemical companies
- Offering total solutions

#### **Opportunities**

- Increasing food demand due to the growing global population
- Growing agriculture-related businesses
- Opportunities in peripheral and downstream segments of the household insecticide business

Status of the major businesses

#### Threats

Weaknesses

compared to the competing majors

Need to establish global sales channels

Relatively small business size

- Tightening of the regulations on crop protection chemicals
- Increased competition with off-patent crop protection chemicals
- Consolidation in the major agrochemical companies

## Business Strategy – Health & Crop Sciences Sector

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### **Action plan**

- Strengthen and expand biorationals business
- Develop and launch new crop protection chemicals steadily
- Expand methionine sales and strengthen earnings power
- Accelerate the global expansion of the environmental health business
- Develop the nucleic acid medicine business and expand the application of the technology

### **Major issues**

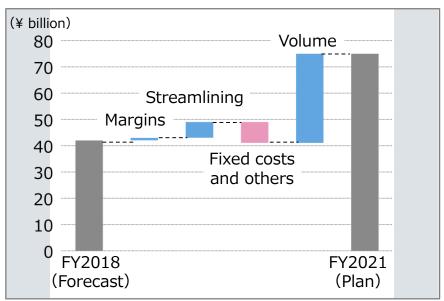
- Establish a global footprint in the crop protection business
- Further strengthen the crop protection business (agriculture-related supplies, precision agriculture)

## FY2021 Target

¥480.0 billion Sales Revenue

Core Operating Income ¥75.0billion

#### Core operating income variance analysis (FY2018 v/s FY2021)



## Ш

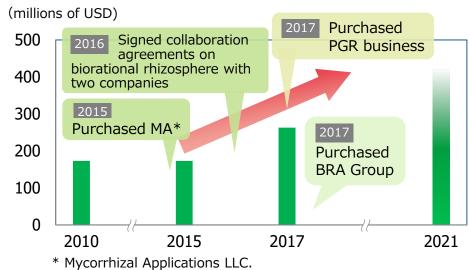
## Health & Crop Sciences Sector Topics: Expansion of Our Biorational Business

#### Change & Innovation 3.0 For a Sustainable Future

## Global Sales of Biorational-related Products (for Agriculture)

	Market size	Annual growth rate
Microbial pesticides	¥50 billion	8-10%
Plant growth regulators (PGR)	¥33 billion	3-5%
Biorational rhizosphere	¥28 billion	10%
Botanicals	¥10 billion	5-7%

### **Our Sales for Biorational Business**



#### Botanicals (Plant-derived)

- Growing reputation for organic agriculture and natural products
- Synergies through acquisition of Botanical Resources Australia (Technologies for improving pyrethrum seeds and extracting natural substances)



Expand from household and public hygiene fields to agriculture

Develop new botanical insecticides

### **Biorational rhizosphere**

(mycorrhizal fungi/ rhizobium/ soil microorganism etc.)

- Sales expansion of mycorrhizal fungal products from MA, and launch of its mixture products
- Launch of other rhizobium products
- Sales expansion of biological nematocide for seed treatment



## **Business Strategy – Pharmaceuticals Sector**

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### Long-term goal

# Contribute to the improvement of people's quality of life through the development of innovative medical and healthcare solutions

#### Strengths

- Drug development platform in the areas of psychiatric and neurological disorders and cancer
- Development capabilities and manufacturing know-how for cellular medicine derived from allogeneic iPS cells
- Network with academia and biotech companies
- Pipeline in development for psychiatry & neurology, oncology, and regenerative medicine and cell therapy
- Strong development and manufacturing capabilities for radioactive isotope labeling agents

#### Weaknesses

- Limited capabilities to bear the burden of R&D costs
- Emergence of generic drugs due to the loss of exclusivity for major products

Status of the major businesses

#### Threats

- Accelerated implementation of medical expense control measures in Japan
- Changes in the health insurance systems overseas
- Consolidation in the pharmaceutical industry

### **Opportunities**

- Innovation in healthcare technology
- Increasing health awareness

## **Business Strategy – Pharmaceuticals Sector**

#### Change & Innovation 3.0 For a Sustainable Future

### **Action plan**

- Strengthen innovation through new drug discovery approaches
- Launch new products in oncology
- Explore frontier fields
- Develop Theranostics business and strengthen the competitiveness of existing radioactive diagnostics business

### **Major issues**

- Enhance drug development capabilities and improve the success rate in R&D
- Maintain earnings power after Latuda's loss of exclusivity

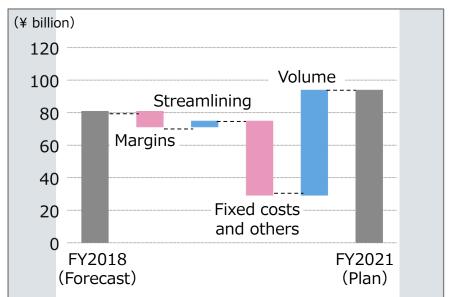
## FY2021 Target

Sales Revenue ¥590.0 billion

Core Operating Income

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¥94.0billion
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#### Core operating income variance analysis (FY2018 v/s FY2021)



## Π

## Pharmaceutical Sector Topics: Regenerative Medicine and Cell Therapy

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## Initiatives in Regenerative Medicine & Cell Therapy Business

Proposed indication, etc.	Partnering	Region (planned)	Clinical research/ Clinical study
Chronic stroke (SB623)	SanBio	North America	Phase 2b study in progress Primary endpoints not achieved; the results are under close analysis
AMD (age-related macular degeneration)	Healios RIKEN	Japan	Preparing for clinical study
Parkinson's disease (Designated as a "SAKIGAKE")	Kyoto Univ CiRA	Global	Clinical study started August 2018
Retinitis pigmentosa	RIKEN	Global	Preparing for clinical research
Spinal cord injury	Keio Univ Osaka National Hospital	Global	Preparing for clinical research

\*1 PET Image Source (Neurotherapeutics (2011) 8:549-561)

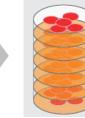
\*2 Launch schedule is based on our plan and not agreed on by partners.

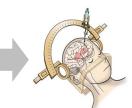
Kyoto University Hospital and CiRA are conducting investigator-initiated trials for treatment of Parkinson's disease using iPS cells.

Our cooperation in clinical study

Treatment process with cellular medicine using iPS cells



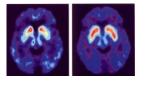




iPS cell bank

Therapeutic cell (CiRA) Administer to a patient

Contract production of PET reagents<sup>\*1</sup> 日本メジフィジックス株式会社



Dainippon Sumitomo Pharma will file an application for approval based on the data from the trials, aiming to launch this product in FY2022\*2

Expected to grow into a core business for the Pharmaceuticals sector by 2030

## **Bioscience Research Laboratory**

#### Change & Innovation 3.0 For a Sustainable Future

Applying our advanced technologies related to the development of pharmaceuticals, crop protection chemicals and other chemicals, microbial engineering, and chemicals safety assessment to a broad range of research activities.

#### **Genome research**

**Molecular technologies** 

- High-sensitivity and integrated analysis
- Drug discovery screening and evaluation

#### Protein analysis research

#### **Molecular technologies**

 "Omics" technologies for safety assessment Development of advanced digital information technologies Microbiology research

#### **Cellular technologies**

 Microorganism utilization technology

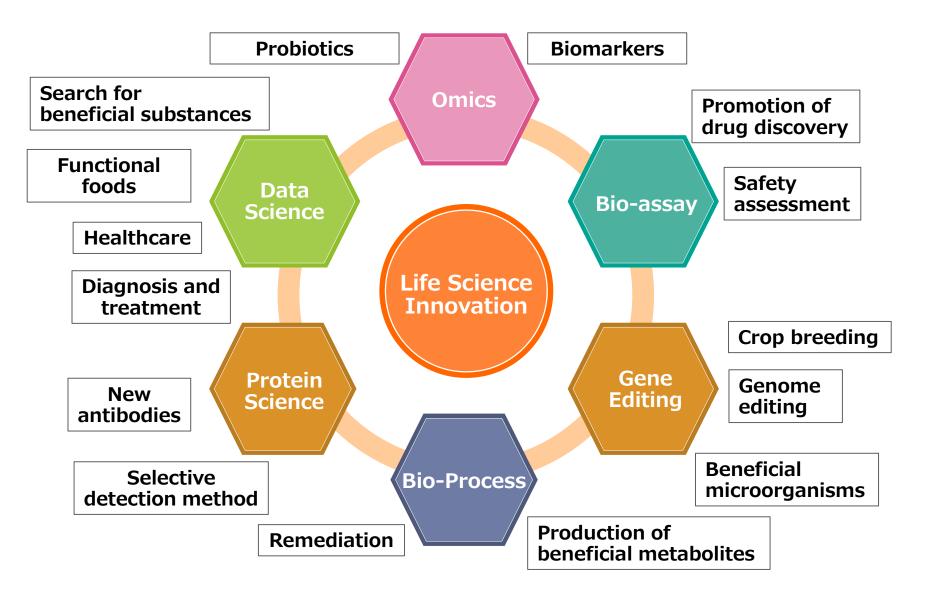
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 Microbiota analysis (analysis of the flora of diverse fungi)



## **Bioscience: New Research Themes**

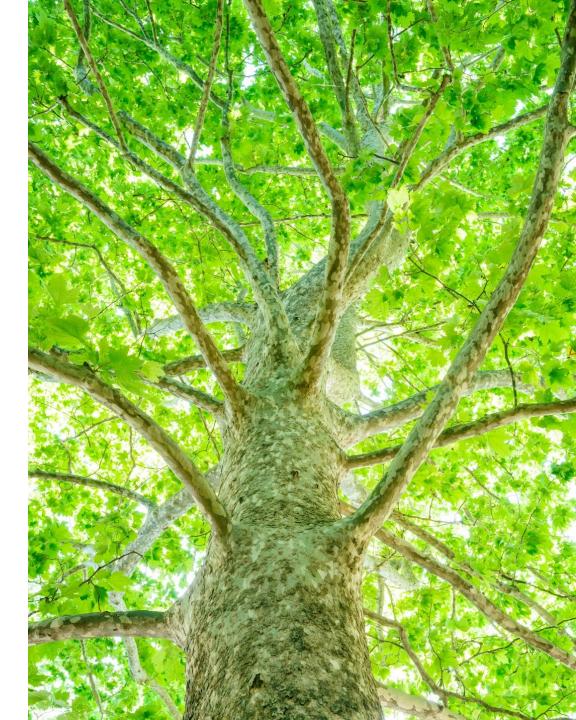
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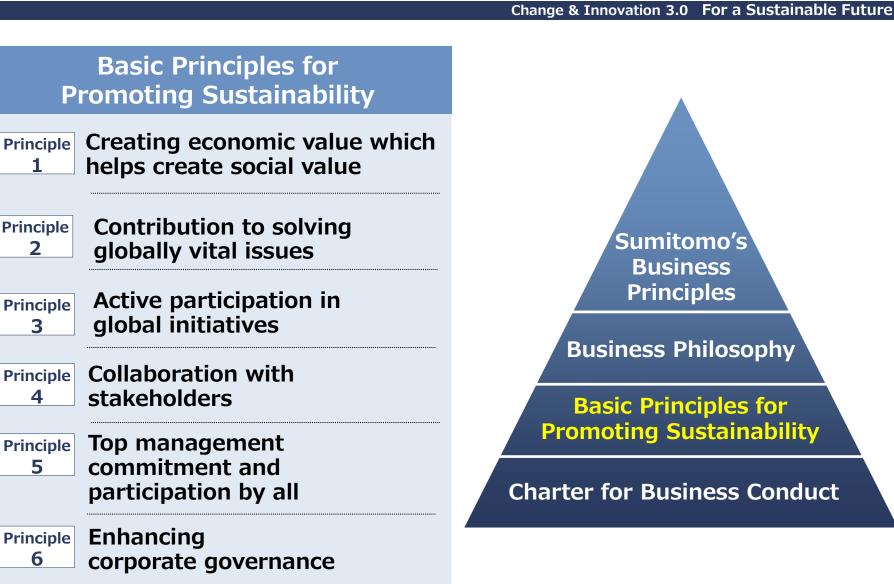
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## IV

## **Initiatives for Sustainability**

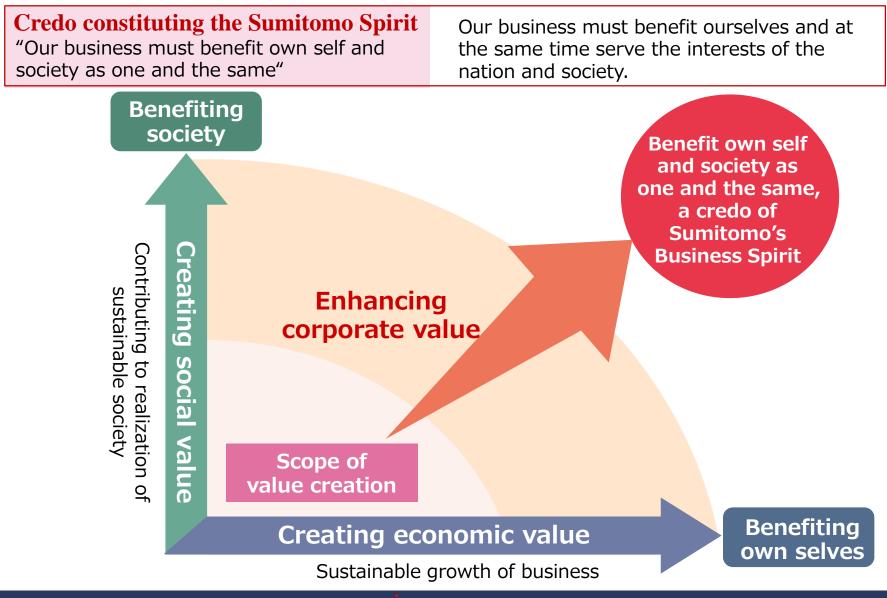


Established Basic Principles for Promoting Sustainability



## Image of Enhancing Corporate Value

#### Change & Innovation 3.0 For a Sustainable Future



IV

## **N** Our Definition of Material Issues

#### Change & Innovation 3.0 For a Sustainable Future

## **Our Seven Material Issues**

## Material issues for social value creation

- Contribution to reducing environmental impact
- Mitigation of climate change
- Contribution through products and technologies
- Efficient use of energy and resources
- Contribution to the recycling of plastic resources

□ Contribution to solving food issues

□ Contribution to solving healthcare issues

Contribution to ICT innovation

Material issues for value creation in the future

Promotion of technology innovation and research and development

□ Initiatives for digital innovation

□ Promotion of diversity and inclusion

## Achieve sustainable value creation by working on material issues

## Initiatives for Global Environment Issues

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## **Participation in external initiatives**

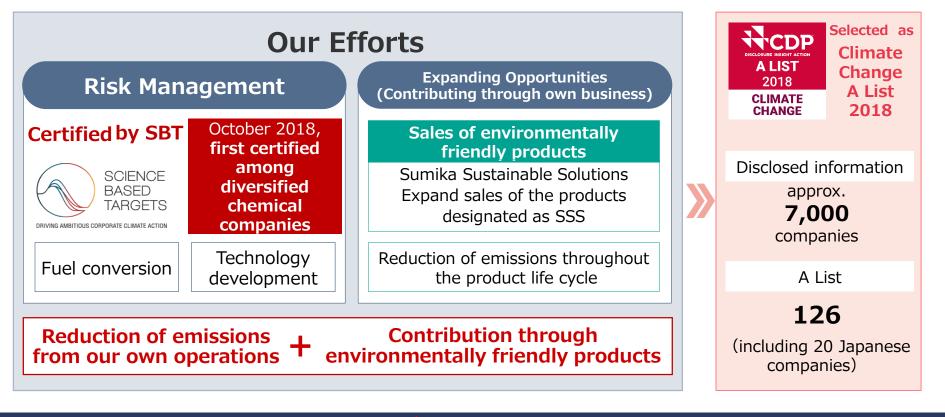
TCFD TASK FORCE ON CLIMATE-RELATED FINANCIAL DISCLOSURES Since August 2018: Joined in the "TCFD Study Group," led by the Ministry of Economy, Trade and Industry for mobilizing green finance through proactive corporate disclosure

December 2018:

#### **METI Issued TCFD guidance**

December 2018~:

,: Joined WBCSD Chemical Sector's project to formulate TCFD guidance

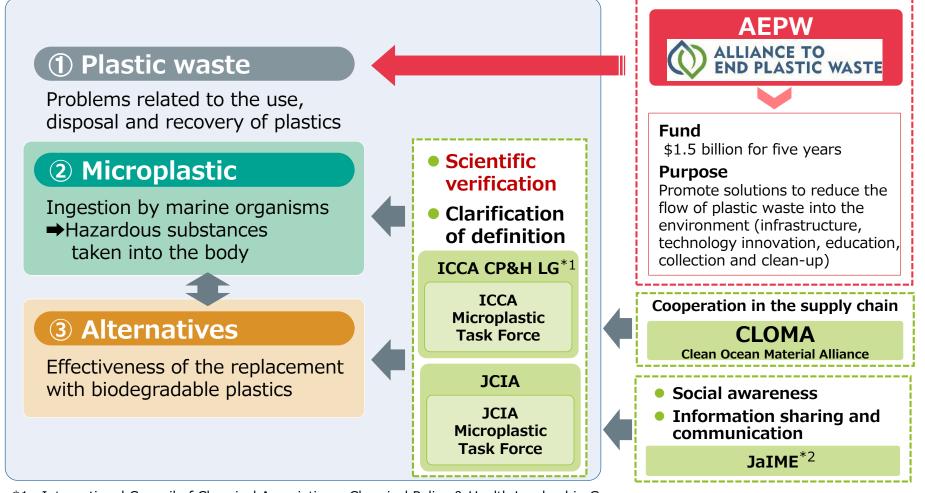


Corporate Business Plan

IV

## **IV** The Issue of Plastic Waste

## **Our efforts through participation in external initiatives**

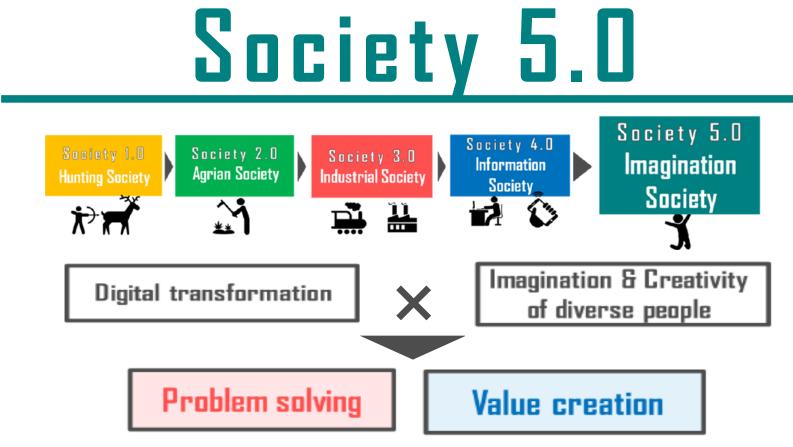


- \*1 International Council of Chemical Associations, Chemical Policy & Health Leadership Group
- \*2 Japan Initiative for Marine Environment

## **N** Society 5.0 "Imagination Society"

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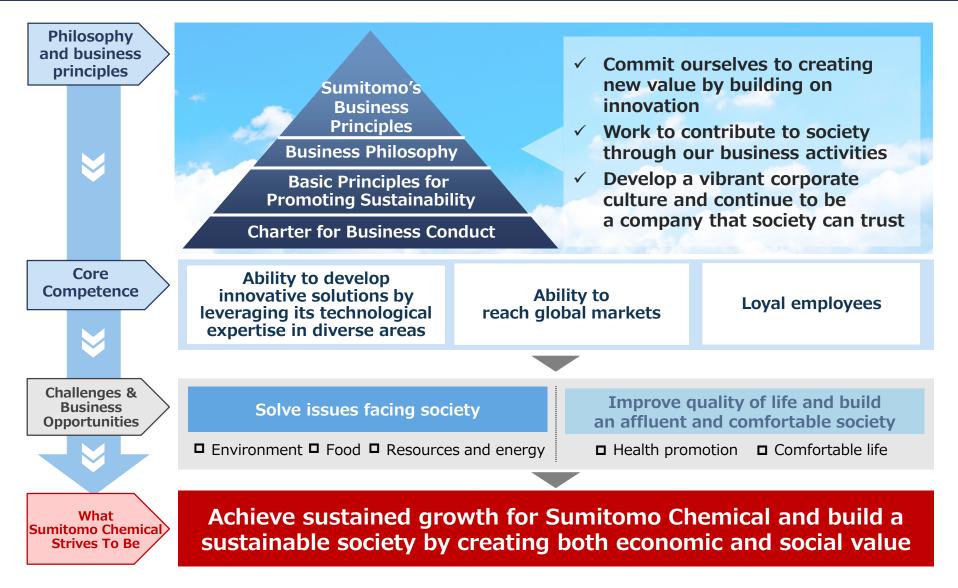
Society 5.0 will be an Imagination Society, where digital transformation combines with the imagination and creativity of diverse people to solve social problems and create value.



(Source) "Society 5.0 -Co-creating the future" by Keidanren

## What Sumitomo Chemical Strives To Be

#### Change & Innovation 3.0 For a Sustainable Future



IV

#### **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.