FY18-1 CEO Explanation

Creating New Customer Value through Innovations



淡輪 敏 Tsutomu Tannowa Mitsui Chemicals Inc. President & CEO

May 30, 2018



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Business Performance

Topics of Targeted Business Domains

- Topics of Sustainability
- Financial Overview

Management Target for Sustainable Growth



Profits expect to reach a record high in FY18 for the third consecutive year

| (JPY bn) | | | | | \triangle Denotes a minus |
|---|---------------|---------------|---------|---------------|-----------------------------|
| Items | FY2015 | FY2016 | FY2017 | FY2018 | Increase (Decrease) |
| | Results | Results | Results | Outlook | FY17→FY18 |
| Sales | 1,344 | 1,212 | 1,329 | 1,480 | 151.5 |
| Operating income | 70.9 | 102.1 | 103.5 | 106.0 | 2.5 |
| Non-operating income | △ 7.7 | △ 4.9 | 6.7 | 6.0 | △ 0.7 |
| Ordinary income | 63.2 | 97.2 | 110.2 | 112.0 | 1.8 |
| Extraordinary gains/losses | △ 21.9 | △ 11.4 | △ 16.0 | △ 5.0 | 11.0 |
| Net income* | 23.0 | 64.8 | 71.6 | 80.0 | 8.4 |
| Exchange rate(JPY/US\$) Domestic standard naphtha price(JPY/KL) | 120 42,800 | 108 34,700 | | 105 49,000 | △ 6 7,100 |

*Net income always refers to Profit attributable to owners of parent



Operating Income Outlook



 \triangle Denotes a minus

 \wedge 6

7,100

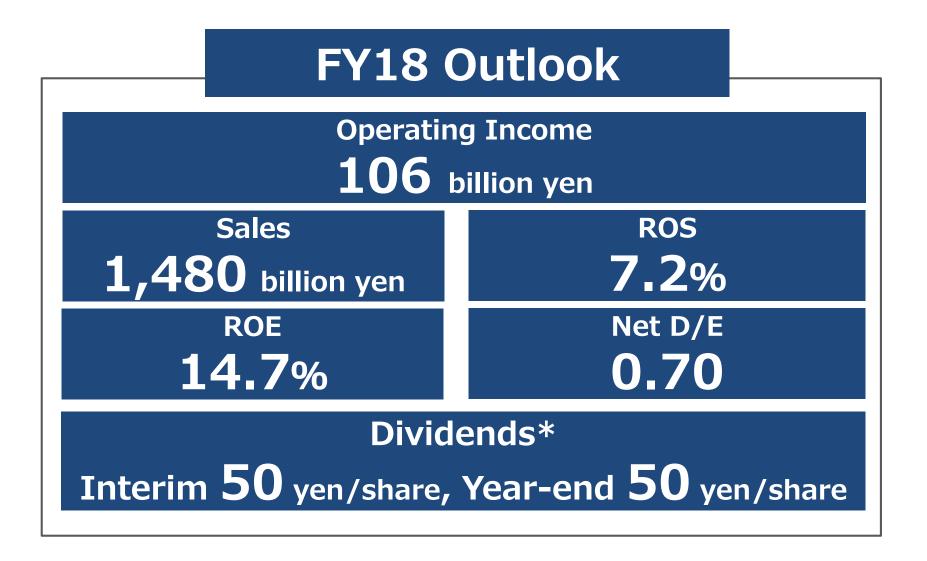
(JPY bn)

| Segment | FY2015 | FY2016 | FY2017 | FY2018 | Increase (Decrease) |
|---|---------|--------------|--------------|--------------|------------------------|
| | Results | Results | Results | Outlook | FY17→FY18 |
| Mobility | 44.9 | 40.7 | 42.3 | 45.0 | 2.7 |
| Health Care | 11.6 | 10.1 | 10.8 | 13.0 | 2.2 |
| Food&Packaging | 20.3 | 20.6 | 19.9 | 23.0 | 3.1 |
| Basic Materials | 1.0 | 38.5 | 38.9 | 33.0 | ∆5.9 |
| Others | ≙6.9 | ∆ 7.8 | ∆ 8.4 | ∆ 8.0 | 0.4 |
| Total | 70.9 | 102.1 | 103.5 | 106.0 | 2.5 |
| Exchange rate(JPY/US\$) | 120 | 108 | 111 | 105 | \triangle |
| Domestic standard naphtha price (JPY/KL) | 42,800 | 34,700 | 41,900 | 49,000 | 7,10 |

✓ Sales growth continues in 3 targeted business domains ✓ Continue operating income in Basic Materials more than 30 billion yen FY2018 Management Target

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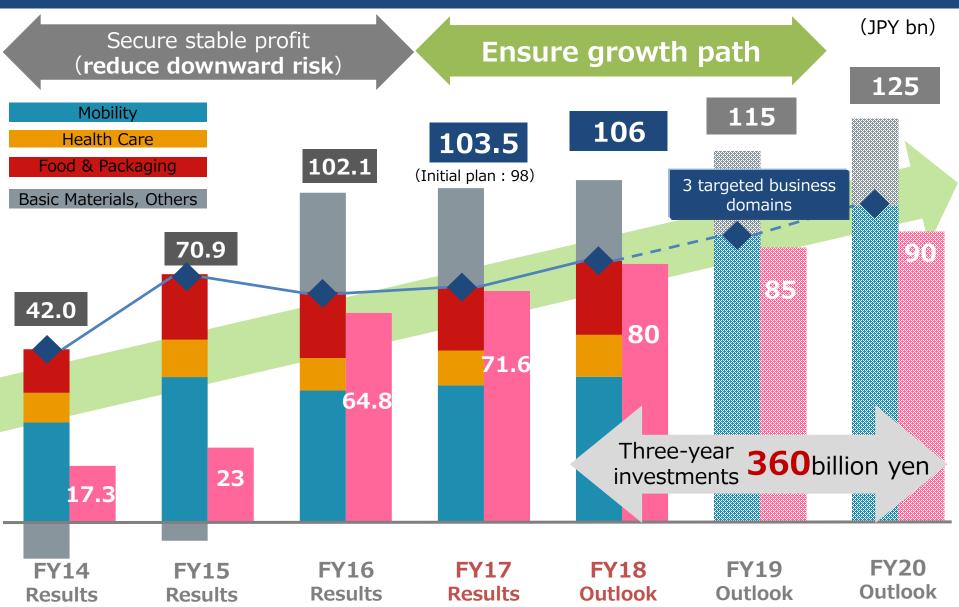
*On October 1, Mitsui Chemicals conducted the 5-to-1 share consolidation.



Mitsui Chemicals Income May 30, 2018

Net

Exceeding the planned targets in the first FY of the LTBP





Strategy

Manufacturing

Management



ISSUES in FY18

| | ①Expansion and growth in 3 targeted business domains |
|----------|--|
| | - Increase of investment themes |
| Business | Business expansion including peripheral business area Secure production capacity corresponding to demands |

②Accelerate development of new next generation businesses and creation of new products

③Further strengthen competitiveness of Basic Materials

④Enhance manufacturing bases by utilizing advanced technologies

⑤Improve safety technologies and enhance manufacturing site capabilities

6 Enhance group-global management

Promote ESG management

6

Environment



1.Solution Business Planning & Administration Div.

- -Promote integration management along with ARRK
- -Expand a **solution business model with customer-driven strategies** in the Mobility Business domain



Governance

2.Corporate Sustainability Div. -Adopt ESG elements to the business strategy

-Promote disclosure to stakeholders

Society



For sustainable development of society and MCI Group



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comprehensive strengths Provide solutions making full use of

Mobility



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Acquired ARRK, a global development assistance services (Jan. 2018 ; 30 billion yen)

Bases of ARRK

✓The largest Japanese company, providing development assistance services mainly for automobiles
✓Total support for customer's product development ranging from design to engineering,

analysis and prototyping

Outline of **ARRK**

√60% sales in EU, not only supports prototyping of European OEMs but also analysis service



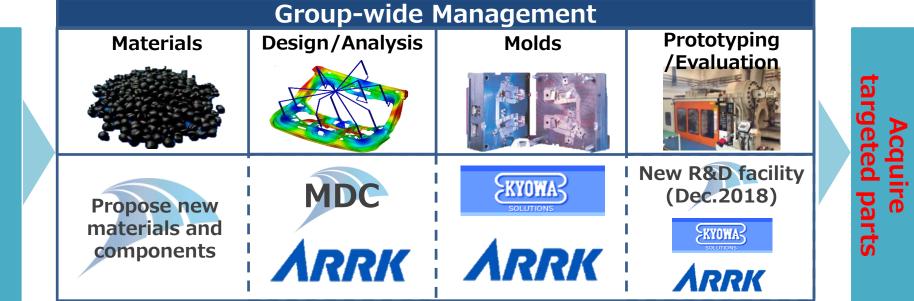
Enhance global expansion of materials by making use of ARRK's partnership with OEMs





Total solutions for materials, design, molds and prototyping in global

*MDC : Mobility Development Center



All phases are ready to implement solution strategies

EXAMPLE



✓Expand materials business through promotion of polymeric parts by total solution
 ✓Provide high-value added development assistance services including materials
 ✓Utilize mutual customer networks and global bases
 ✓Expand mold and prototyping businesses by utilizing bases mutually

Synergy effects; $3 \sim 5$ billion yen(FY25)

10 PP Compounds Business



Japan

(FY19)

PP Compounds New base in EU(Approx. 5 billion yen)

Mitsui Prime Advanced Composites Europe (Chemelot Industrial Park, Limburg, the Netherlands)



①Strengthen supply system

- ✓ First own production base
- ✓ Complete establishment of production, sales and R&D functions

②Strengthen initiatives with OEMs

- \checkmark Approved materials in major OEMs
- Respond to lightweight needs for stricter environmental regulations
- $\checkmark {\rm Obtain}$ solution capabilities with ARRK

Long glass fiber reinforced PP Global deployment of Mostron[™]-L

New bases in Japan, US and China (Under F/S; total 10KTA or more)

China

(FY20)

Applied to metal-substitute rear doors

①30% lighter than metal

USA

(FY19)

- ② **Unpainted** by its good appearance
- **③Reduced** the number of **parts**

④Contribute to design freedom in global SUV trends





Styrene thermoplastic elastomer **Obtain TPS business**

New base in USA (1.5 billion yen)

Acquired from Asahi Kasei

(Dec. 2017)

| Milastomer™ New Vu | Vulcanized | | | | |
|-----------------------|--------------------------|--|--|--|--|
| TPV | TPS | | | | |
| Interior (Sheet skin) | Interior | | | | |
| Weather strip | (Injection molding skin) | | | | |
| Steering boots | Door grip | | | | |
| hefin | Stylene | | | | |
| TPO | N-V TPS | | | | |

Airbag cover

Non-automobile application (Golf grips, etc.)

Non-vulcanized

✓Ultra-high flow, abrasion-resistance and leather like texture ✓ Enhance proposal capabilities for automobile interior based on the elastomer lineup (Unpainted, Improved production efficiency)



Enhance global supply capacity (**51**KTA)

 \checkmark The lightest resin in elastomers ✓ Meet needs of luxury interiors

Production capacity to 60KTA in FY20





1 Electrolyte

Japan(Nagoya)

5 KTA (Apr. 2017)

China(Ningbo)

5 KTA (Completed capacity increase in Nov.2017)

2 Material for separator films

Ultra-high molecular weight polyethylene **[Hi-zex million[™]]**

Capacity increase + 15%(FY18) (to 8.5KTA)

 Additive technology that achieves long cruising distance and electric power performance
 Applied to Japanese and Chinese

LIB manufacturers

Feasibility study for further capacity increase

③Inhibitor of thermal runaway

 ✓ STOBA™ technology contribute to reliability of LIBs



④Packaging material for LIB

✓ Multi-material parts using Polymetac™
 ✓ Prime Polypro™

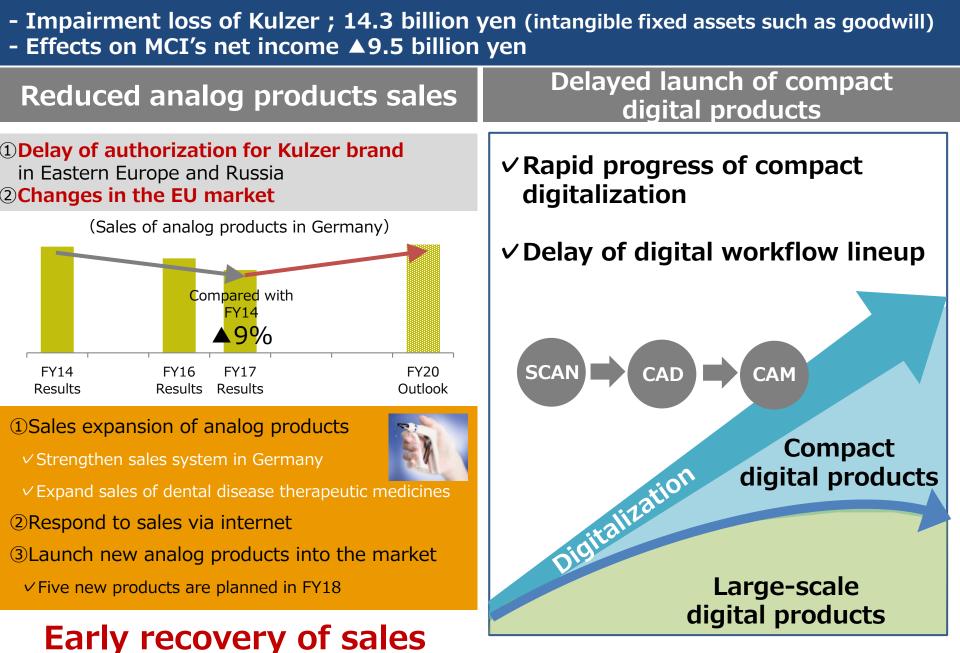
✓ Adhesive materials(Admer[™], Unistole[™])

Health Care Provide products & services contributing to Quality of Life through chemical innovations





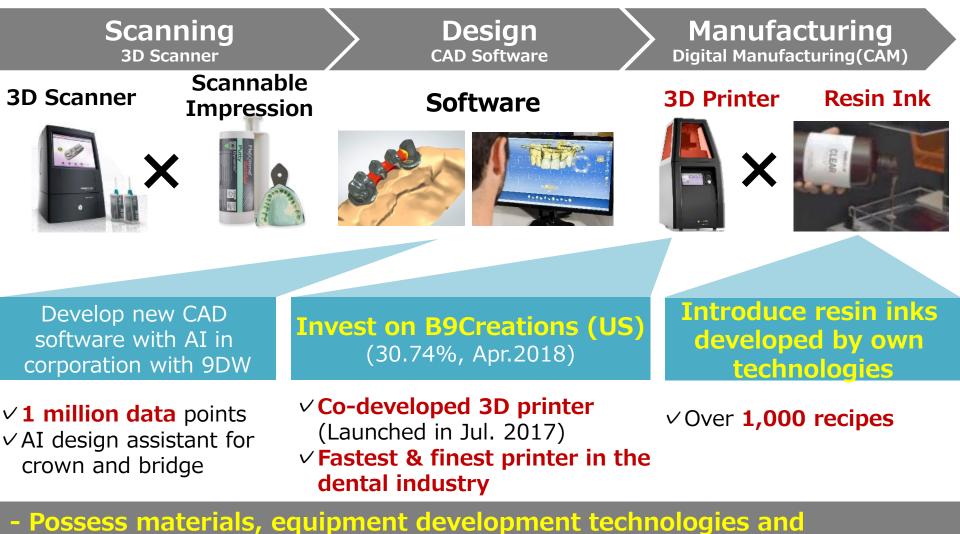








Strengthen Digital Workflow for Dental Materials



knowledge in the dental industry

- Accelerate total solution using digital workflow lineup



Start new operations of nonwovens (Jun. 2018)

-New base in Nagoya (15кта) -Good flexibility & elasticity nonwovens(Yokkaichi,+6KTA)



Global deployment of AIRYFA[™], a high value-added nonwovens

Highly evaluated functions of light-weight, flexibility and strength

Japan : Launched in May 2017 Thailand : Applied in Apr.2018 China : Planned in FY19

Mass-production in 3 bases

TouchFocus[™] debuted (Feb. 2018)

 E-focus glasses, which can instantaneously change focus from distance to close with just a touch
 Wide area of vision with minimized swim and distortion were highly evaluated

Target Target 100 stores (Mar.2019)

Sales Target (FY22) 50,000 glasses/year

Provide solutions for world food problems and seizes new business opportunities Food &







Fungicide "Tolprocarb"

Herbicide "Cyclopyrimorate"

Insecticide

"Broflanilide"

Registration submission for rice paddy completed

Sales for rice paddy started in Japan (FY15)

Long-term commercialization contract with BASF



- ✓ New mode of action is highly valued
- ✓ Promote global expansion by utilizing strengths of both companies
- Registrations are currently in progress in target countries

Global licensing contract with BAYER



- \checkmark New mode of action is highly valued
- Promote collaborative development and global expansion

Animal Health

Product development for companion animal use is progressing

Global Expansion Strengthen Business in Indonesia

Business alliance with agriculture construction



✓ Acquired 30% shares of subsidiary of AGCI
 ✓ Aiming for sales expansion and accelerated development in growing Indonesia

Five

Next-Generation Active Ingredients





ICROS[™] Tape for semiconductor manufacturing process

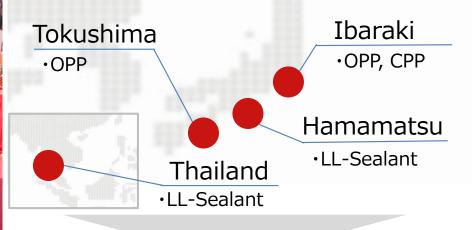
Start construction of the base in Taiwan

(May 2018; Kaohsiung)



Packaging film Product optimization

Execute production efficiency measures



1Stable supply

-Increase CPP capacity(+10%)-Improve OPP production efficiency-Optimize LL-sealant biz in Asia

②High value-added films

-Sales increase of ECONEIGE™, etc.

To be completed in FY20

Commercial operation in Sep. 2019

Robust domestic business and further sales in overseas

吉時

Create solution & system businesses at the boundary or peripheral areas

Business **Next Generation**





Next Generation Business



Energy Solution



Medical Solution



Power generation business Diagnosis business of PV Plant V Diagnosis accounts over 2GW

 Requests from overseas investors rapidly increasing

Rapid diagnosis system for bacterial identification Started to provide reagent for research Overseas deployment

Agri Solution



Advanced cultivation system (iCAST™) ✓ Good fields results in US and Australia ✓ Evaluation stage at large farms

IoT Solution



Piezo-electric material for sensor Next generation display material

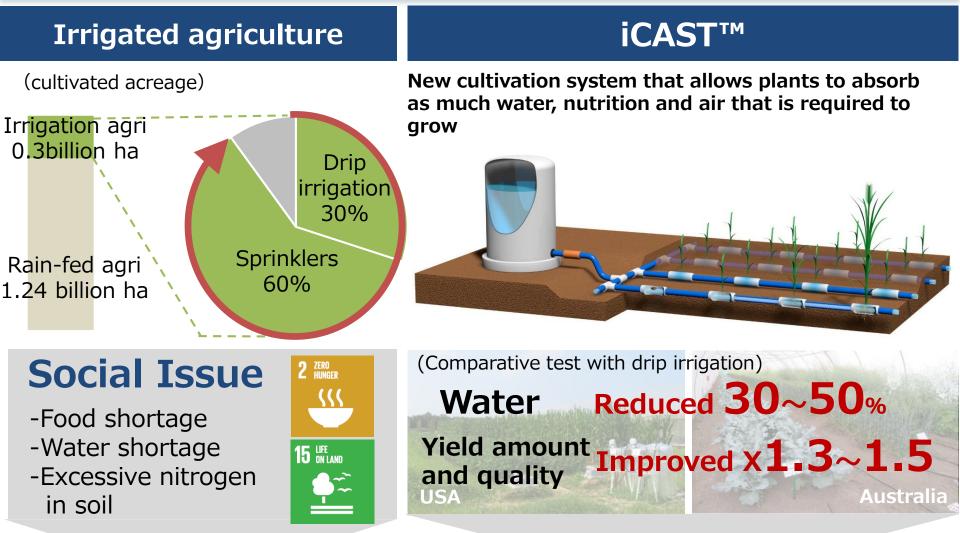
✓ Increase sensor needs✓ Full-scale demand for OLED

Corporate Venturing



Open innovation Corporate Venture Capital





Needs for new resilient agri system

Moved to large-scale evaluation stage from Apr. 2018 (US/AUR)



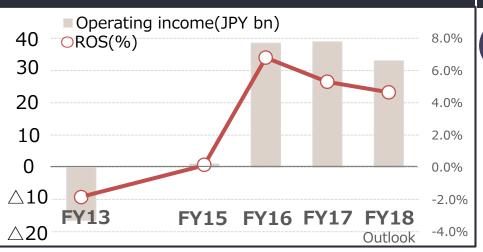
asic Materials







Establish stable business structure



Profitability restored in all 3 restructuring businesses (Phenol, PTA/PET, Polyurethanes)

Large-scale businesses in overseas contribute to profits

(Evolue Singapore, Nghi Son project)

✓ Capacity increase of MDI in Korea (250KTA→350KTA; Mar. 2018)

Strengthen high value-added products

Further competitiveness

1 New gas turbine (Osaka, FY20)

Introduction of new gas turbine utilizing exhaust gas achieved an effective in-house power generation system





2 Expand high-purity C3 refining capacity (Ichihara, FY20)

Respond to C3 derivatives enhancement strategies (B&S for PP, elastomer)

3 Nghi Son refinery started operation in Vietnam

Secure competitive raw materials (BZ, PX)

Secure steady profits of more than 30 billion yen through safe and stable operation, full-sales and cost reduction





Debottlenecking of hydroquinone (Aug. 2017)

Disilane gas for semiconductor manufacturing



Disilane demand forecast CAGR 15% FY16 FY18 FY20 FY22

Application

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Polymerization inhibitors (acrylic acid, MMA)



Rubber additives for tires

Raw materials for engineering

plastics (PEEK)

Strong demand for higher integration of semiconductors (DRAM and NAND flash memories)

Low-tem. decomposition of disilane corresponds semiconductors' process needs

Maintain high share in global market and further expansion

Consider further expansion



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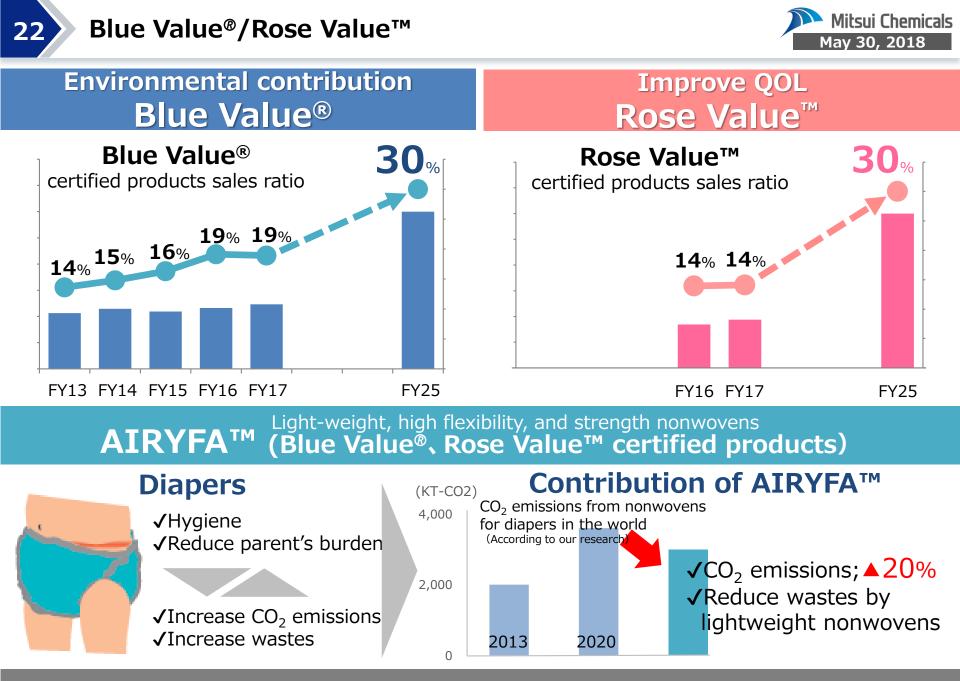
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Solve social challenges through "Blue/Rose Value" products



Innovative solutions are urgently required to control mosquitos resistant to existing insecticides

✓ Joint declaration by Agrochem majors (BASF, BAYER, Mitsui Chemicals, Sumitomo Chemical, Syngenta)

✓Supported by Bill & Melinda Gates Foundation and IVCC

Explore social issues for farmers who provide raw material of our biomass products

✓Collaboration with Japanese and Indian NPOs, local doctors and customers in product supply chain

✓ Survey the relationship between eyesight and school attendance and employment rates, etc.

Provide solutions to using innovative agrochemical technologies

Provide solutions to social issues under "Quality of View"



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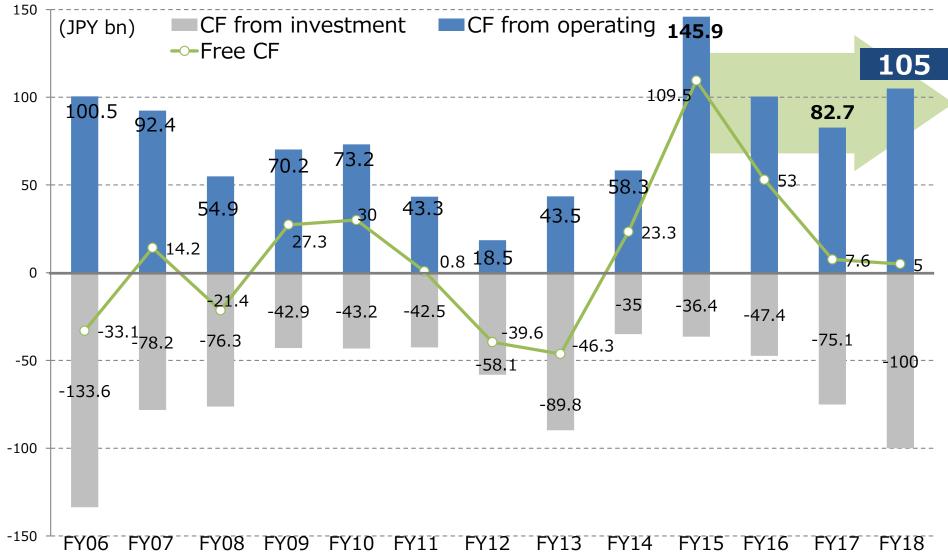
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Cash Flow

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Cash flow from operating remains high and maintain an active investment phase



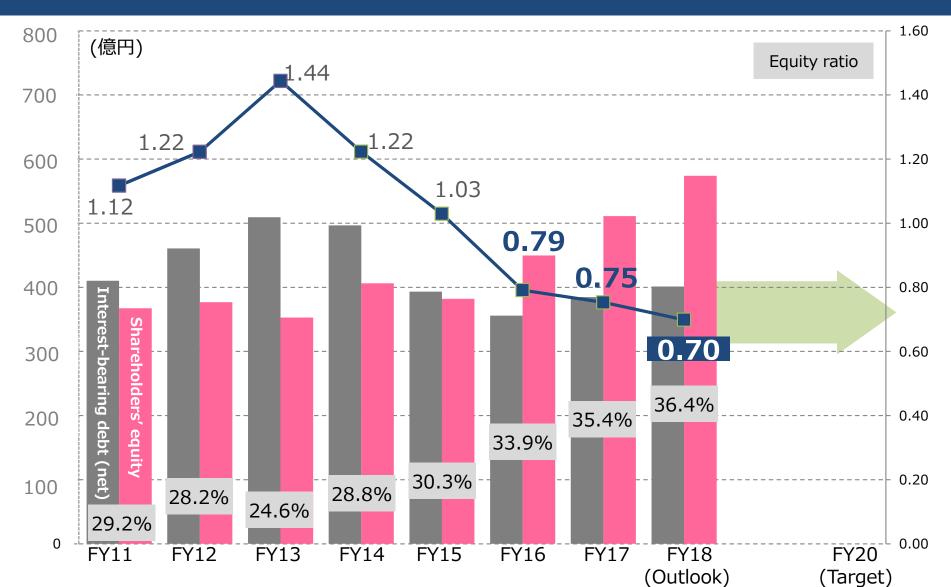
Outlook

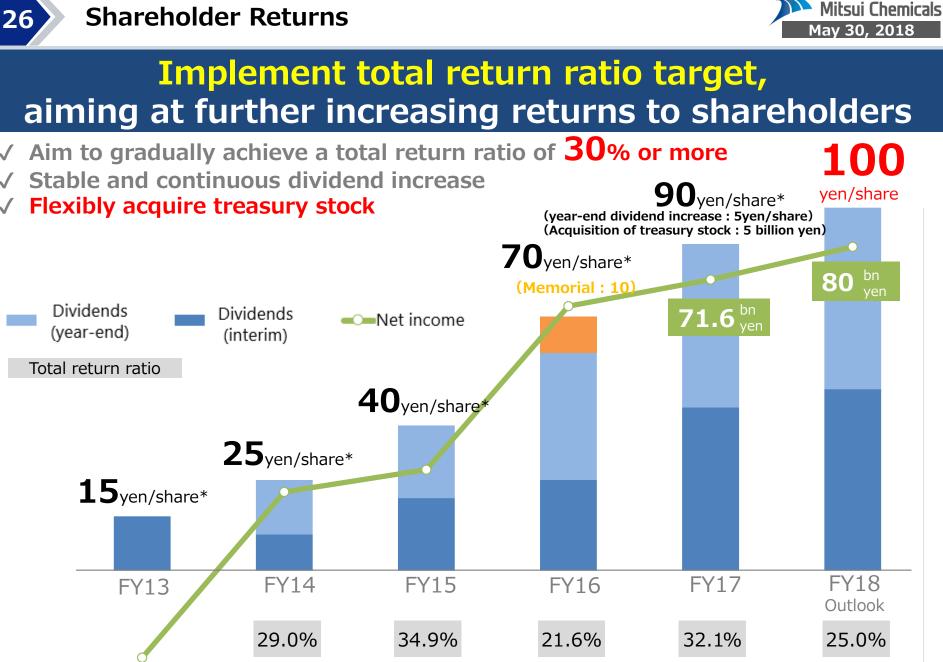


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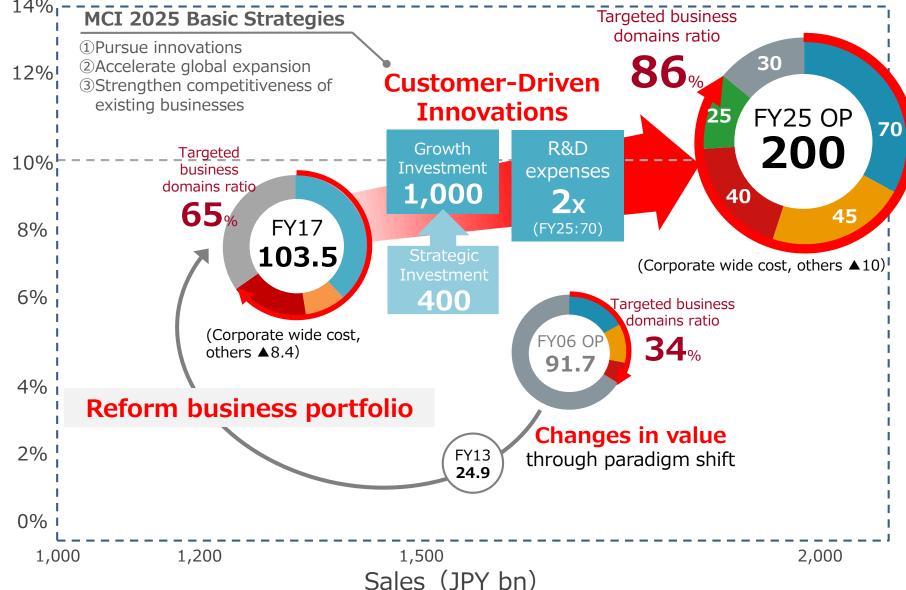
✓Dramatic improvement over initial target of 1.0 (FY18 outlook: 0.7)
 ✓Maintain active investments, aiming at further enhancement of corporate value





*On October 1, 2017, Mitsui Chemicals conducted the 5-to-1 share consolidation. All dividends are re-calculated based on the share consolidation. 27 Targeted Position Mobility Health Care F&P New & Next Generation MCI 2025 Basic Strategies Targeted business domains ratio

ROS(%)



Mitsui Chemicals

May 30, 2018

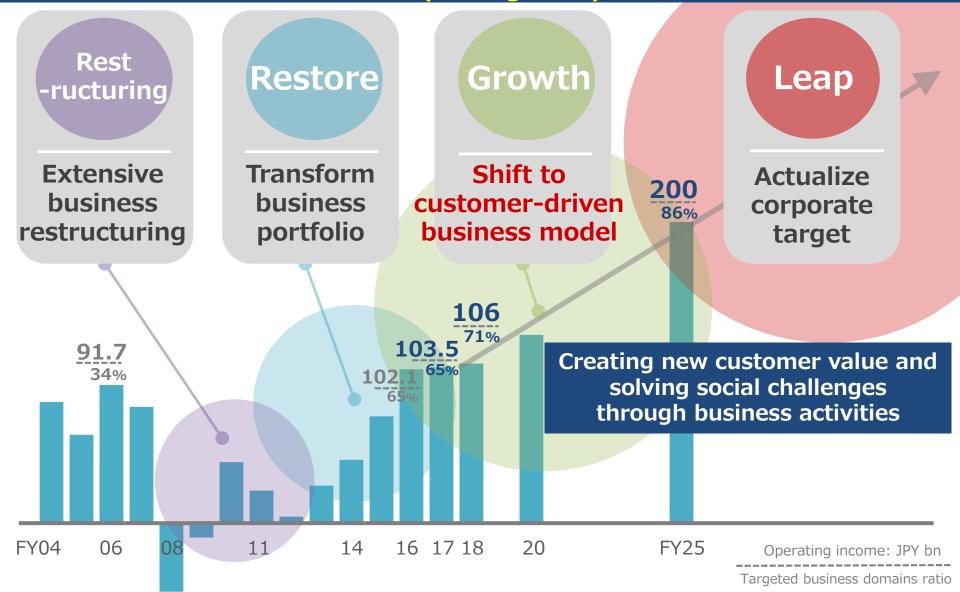
Basic Materials

▲ Denotes a minus (JPY bn)





Constantly pursuing innovation and growth to become a chemical group with an undisputed global presence



Creating new customer value and solving social challenges through business activities



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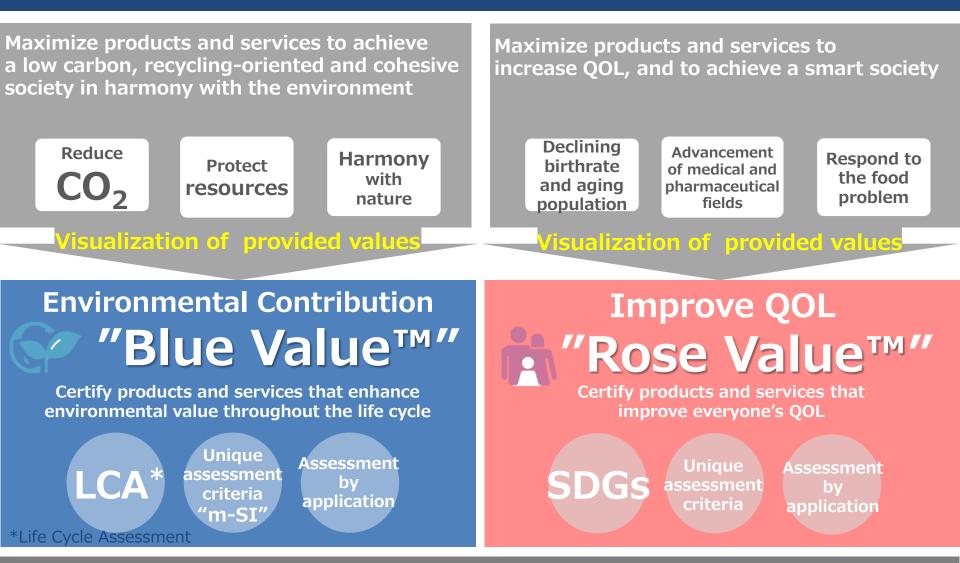








Set environmental and social targets for the Long-Term Business Plan



Share contributing values with stakeholders aiming to realize the future society