

May 29, 2018 Hideki Kobori, President Asahi Kasei Corporation

Asahi **KASEI**

Today's Focus

- ✓ Steady progress toward achievement of "Cs for Tomorrow 2018" objectives
 - Record-high financial performance in FY 2017; on track to achieve FY 2018 targets
 - Steady advances to build the base for the next phase
 - → Creating a portfolio of high-profitability, high value-added businesses
- ✓ Proactive and strategic growth measures for FY 2025 with management perspective on ESG aspects based on Group Mission, Vision, and Values

Outline

1. Performance Results and Investments

- 2. Ideal for Asahi Kasei
- 3. Actions Advanced under "Cs for Tomorrow 2018"
- 4. Completing "Cs for Tomorrow 2018"





1. Performance Results and Investments



1.1. Financial performance

New records in net sales, operating income, and net income

Cs for Tomorrow 2018 (CT2018)

| (¥ billion, except where noted) | FY 2015 |
|---------------------------------|---------|
| Net sales | 1,940.9 |
| Operating income | 165.2 |
| Operating margin | 8.5% |
| Net income | 91.8 |

| FY 2016 | FY 2017 | FY 2018 forecast (As of May 2018) |
|---------|---------|---|
| 1,883.0 | 2,042.2 | 2,155.0 |
| 159.2 | 198.5 | 190.0 |
| 8.5% | 9.7% | 8.8% |
| 115.0 | 170.2 | 140.0 |

| FY 2018 |
|---------------------------|
| target (As of April 2016) |
| 2,200.0 |
| 180.0 |
| 8.2% |
| 110.0 |
| 110.0 |

| FY 2025 |
|--------------------|
| outlook |
| (As of April 2016) |
| 3,000.0 |
| 280.0 |
| 9.3% |
| |
| - |

| Net income per shareholders' equity (ROE) | 8.6% |
|---|-------|
| Net income per shareholders' equity and interest-bearing debt | 7.1% |
| Dividends per share | 20 |
| Payout ratio ¹ | 30.4% |

| | 14.0% | 10.5% |
|-------|-------|-------|
| | 9.7% | 7.6% |
| 34 | 34 | 24 |
| 33.9% | 27.9% | 29.1% |
| 40. | 444 | 4.00 |

| 9.0% | |
|-------|--|
| 7.0% | |
| 35.0% | |

| 10.0% |
|-------|
| 8.0% |
| |

^{¥/}US\$ Exchange rate

¹²⁰

¹⁰⁸

¹¹¹

¹⁰⁵

¹¹⁰

¹ FY 2018 target figure for payout ratio is total return ratio including share buybacks.



1.2. Financial results and plan by segment

| (¥ billion, except where | noted) | FY 2016 ¹ | FY 2017 | FY 2018 forecast (As of May 2018) | FY 2018 target (As of April 2016) | FY18–25 increase, growth rate | FY 2025 outlook (As of April 2016) |
|--------------------------|------------------|----------------------|---------|---|---|-------------------------------|--|
| | Net sales | 977.9 | 1,087.7 | 1,175.0 | 1,250.0 | | 1,650.0 |
| Material | Operating income | 88.5 | 121.9 | 115.0 | 100.0 | | 140.0 |
| | Operating margin | 9.0% | 11.2% | 9.8% | 8.0% | + 0.5pt | 8.5% |
| | Net sales | 619.0 | 641.0 | 657.0 | 700.0 | | 1,000.0 |
| Homes | Operating income | 64.1 | 64.4 | 65.5 | 70.0 | + 30.0 | 100.0 |
| | Operating margin | 10.4% | 10.0% | 10.0% | 10.0% | | 10.0% |
| | Net sales | 270.1 | 296.3 | 303.0 | 370.0 | + 7.2%/year | 600.0 |
| Health Care | Operating income | 31.9 | 39.5 | 37.5 | 50.0 | | 80.0 |
| | Operating margin | 11.8% | 13.3% | 12.4% | 13.5% | | 13.3% |
| Others | Operating income | (25.3) | (27.3) | (28.0) | (40.0) | | (40.0) |
| Total | Operating income | 159.2 | 198.5 | 190.0 | 180.0 | | 280.0 |

¹ Beginning with FY 2017, the Energy Division, which was formerly included in Others, is reclassified into the Material segment. FY 2016 figures are recalculated in accordance with the new classification.



1.3. Sales and operating income





1.4. Financial and capital strategy

Operating cash flow (3-year total): ¥600–700 billion

- Enhancing competitiveness of established businesses
- Creating new added value in each sector

Total investment (3-year total): ≈¥700 billion

• Proactively advance M&A and other new investment in addition to investment to maintain and expand established businesses

Target for total return ratio

- Stable and continuous dividend increases
- 35% in FY 2018 (including share buybacks performed flexibly)

Funding policy

• In principal by borrowings while maintaining D/E ratio around 0.5



1.5. Progress on long-term investment (on decision-adopted basis)

CT2018
FY 2016–2018
¥700 billion in total

FY 2018 plan (including M&A, etc.)

Material

- Automotive
- Environment/energy
- Healthcare/hygiene

Homes

- Acceleration of new business creation
- Environment/energy

Health Care

Acceleration of globalization

FY 2016 Approx. ¥150 billion

FY 2017 Approx. ¥190 billion

Major investments

Material

- •Capacity expansions for battery separator
- •Construction of new R&D facility (Fibers)
- •Establishment of Xyron mPPE joint venture

Homes

- •Capital and business alliance with Mori-Gumi Co., Ltd.
- Capital and business alliance with Chuo Build Industry Co., Ltd.
- •Establishment of Kanto-area site for steel-frame members

Health Care

•Augmenting product pipeline (pharmaceuticals)

Major investments

Material

- •Capacity expansions for battery separator
- •Capacity expansions for S-SBR for fuel-efficient tires
- •Capacity expansions for Lamous microfiber suede
- •Capacity expansions for Leona nylon 66 filament
- •Aquisition of shares of Senseair AB, a Swedish manufacturer of CO₂ sensor modules

Homes

•Capital alliance with McDonald Jones Homes Pty Ltd in Australia

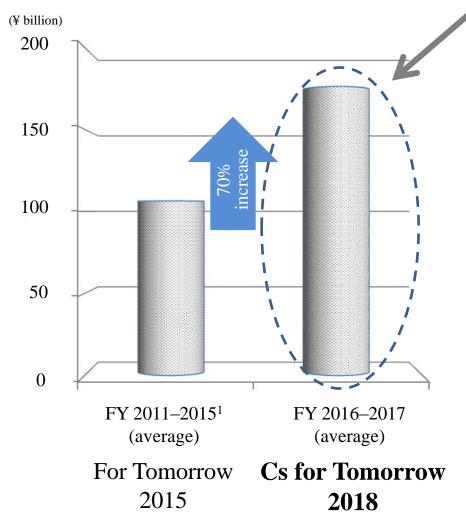
Health Care

•Capacity expansion of spinning for Planova virus removal filters



1.6. Long-term investments compared to previous mid-term management plan

Value of long-term investments on decision-adopted basis (compared to previous mid-term management plan)



Contribution to increased production and profit growth in FY 2019–2020

Major capacity expansion (start-up from FY 2018 onward)

♦LIB separator

Approx. 500 million m²/y (+80%) capacity increase start-up: FY 2018–2020

◇S-SBR for fuel-efficient tires

Approx. 30,000 t/y (+30%) capacity increase start-up: FY 2018

Approx. 3 million m²/y (+50%) capacity increase start-up: FY 2019

♦ Leona nylon 66 filament

Approx. 5,000 t/y (+15%) capacity increase start-up: FY 2019

◇Planova virus removal filters

Approx. 40,000 m²/y (+40%) capacity increase start-up: FY 2019





2. Ideal for Asahi Kasei



2.1. Ideal for Asahi Kasei (current & future)

Mission

Contributing to life and living for people around the world

Vision

Providing new value to society by enabling "living in health and comfort" and "harmony with the natural environment"

Values

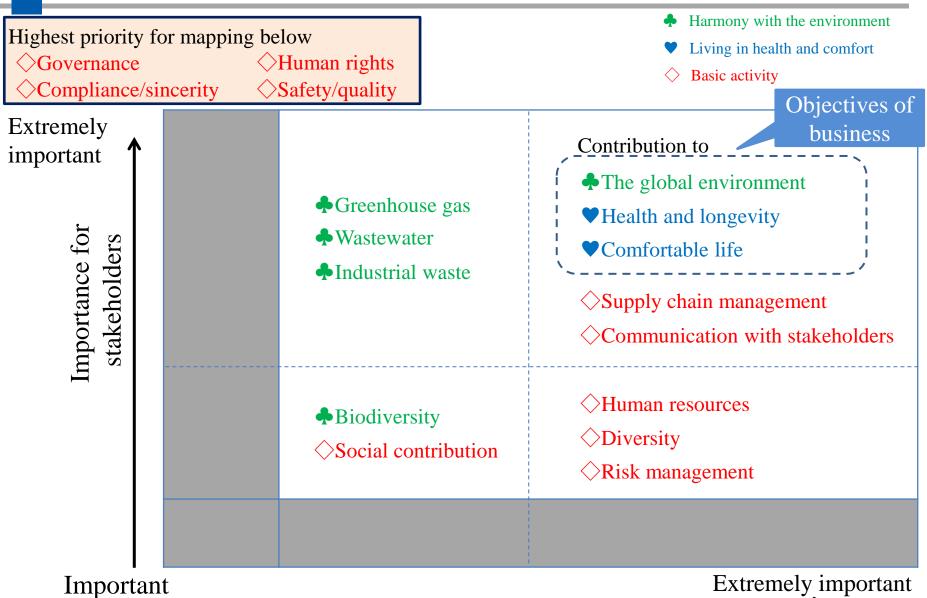
"Sincerity," "Challenge," "Creativity"

"Creating for Tomorrow"

Working on ESG issues (Environmental, Social, Governance) based on our Mission, Vision, and Values



2.2. Perspective on achieving mission and vision (materiality)



Importance for the Asahi Kasei Group

2.3. Basic concept of "Cs for Tomorrow 2018"

Providing solutions to two important challenges faced by society with diversified businesses

Society of clean environmental energy

Society of healthy/comfortable longevity with peace of mind

Communication

Advancing toward 2025

Creating a portfolio of high-profitability, high value-added businesses



Focus of "Cs for Tomorrow 2018"

Advancing "compliance," "communication," and "challenge" to build the base for the next phase with connections among diverse businesses and diverse human resources

Compliance

Basic strategy

Pursuit of growth and profitability

Creation of new businesses

Acceleration of globalization

Challenge





3. Actions Advanced under "Cs for Tomorrow 2018"

3.1.1. Material

Society of clean environmental energy



Society of healthy/comfortable longevity with peace of mind

Fields of focus

Automotive

- S-SBR for fuel-efficient tires
- Leona nylon 66 filament for airbags
- Lamous microfiber suede for automotive interior
- OResin compounds
 Reinforced business configuration in
 Europe, the US, and Asia

Electronic devices for automotive

Environment/energy

- LIB separator
- Xyron mPPE Establishment of joint ventures in China
- \gtrsim CO₂ sensor modules Acquisition of shares for Senseair AB
- ☆DRC process for DPC¹
 Validation
- ☆ Alkaline water electrolysis system
 Demonstration project in Europe

Healthcare/hygiene

- Spunbond nonwoven for diapers
- Bemliese continuous-filament cellulose nonwoven for facial masks
- Saran Wrap cling film New packaging
- **☆**UVC LED for disinfection

[■] Capacity expansion, etc. ☆ Advance of new businesses ○ Business configuration

¹ New process to produce diphenyl carbonate (DPC) via dialkyl carbonate (DRC) from CO₂, alcohol, and phenol.



3.1.2. Material (Automotive 1)

Sector-wide measures

- ✓ Strategic relationships with industry players
 - Private exhibitions
 OEMs and Tier-1 suppliers (domestic and overseas)
 - •Exhibiting at trade shows as a Group (Tokyo, Yokoyama, Nagoya, Germany, China)
- ✓ Development and utilization of AKXY concept car (presenting combined strength)



Private exhibition

- ✓ New business projects (cellulose nanofiber, etc.)
- ✓ Measures in Europe as focal area
 - •Enhanced marketing and sales (Asahi Kasei Europe, launched April 2016)
 - •Enhanced R&D and technology information (Europe R&D Center, launched October 2017)

Examples

- •Heightening brand presence in Europe
- •Strengthening relationships with OEMs and Tier-1 suppliers
- •Greater collaboration with academia (RWTH Aachen University in Germany, etc.)

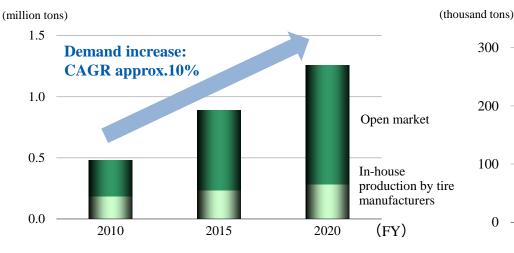


3.1.3. Material (Automotive 2)

Increased capacity for S-SBR for fuel-efficient tires

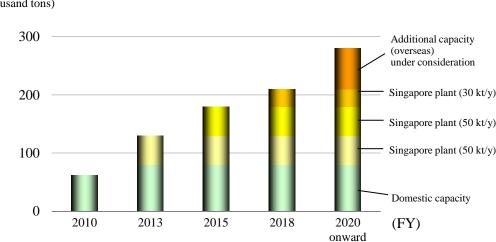
Building stable supply configuration to meet growing demand for S-SBR

- ✓ Top share in Asian market for S-SBR for fuel-efficient tires
- ✓ Enhancing overall tire performance, with good balance of fuel efficiency and wet grip
- ✓ Technology for both continuous and batch polymerization processes; taking the lead to proactively expand capacity for continuous process, with advantage of fewer competitors



Demand forecast for S-SBR for fuel-efficient tires (Asahi Kasei estimate)

Considerable increase in demand for S-SBR with growing demand for high-performance tires due to labeling requirements, etc.



Asahi Kasei production capacity for S-SBR for fuel-efficient tires

Singapore plant – 30 kt/y capacity increase Start-up: January 2019



3.1.4. Material (Environment/Energy 1)

Alkaline water electrolysis system

Battery separators

S-SBR

Engineering plastics

Leona PA66 Tenac POM Xyron mPPE etc.

CO₂ sensors

¹ Energy storage system

² Idling stop and start

Energy supply

Generating electricity

Energy conversion

Electricity storage

Solar panel components

Producing hydrogen from renewable energy

ESS¹



Green hydrogen verification project

Energy use

Electric drive vehicles

ISS²

Fuel efficiency

Lighter weight

Efficient air conditioning

Electricity storage

Efficient air conditioning

LIB

Lead-acid battery

Tire tread

Metal substitution

Measuring CO₂ concentration

ESS¹

Measuring CO₂ concentration









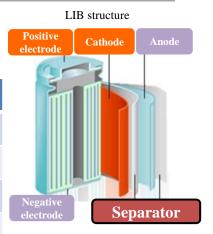


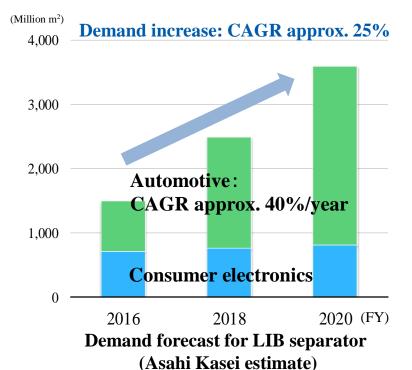


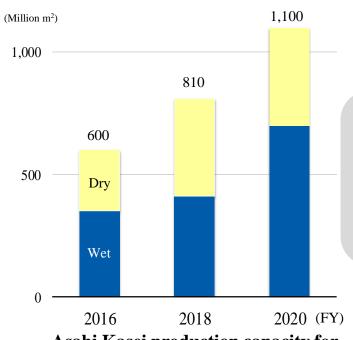
3.1.5. Material (Environment/Energy 2)

Capacity expansions for LIB separator to prepare for upcoming EV market growth

| Process | Location | Capacity | Start-up schedule |
|---------|------------------------|--|------------------------|
| Wet | Moriyama, Shiga, Japan | Approx. 60 million m ² /year | First half of FY 2018 |
| Dry | North Carolina, the US | Approx. 150 million m ² /year | Second half of FY 2018 |
| Wet | Moriyama, Shiga, Japan | Approx. 200 million m ² /year | First half of FY 2019 |
| Wet | Moriyama, Shiga, Japan | Approx. 90 million m ² /year | First half of FY 2020 |



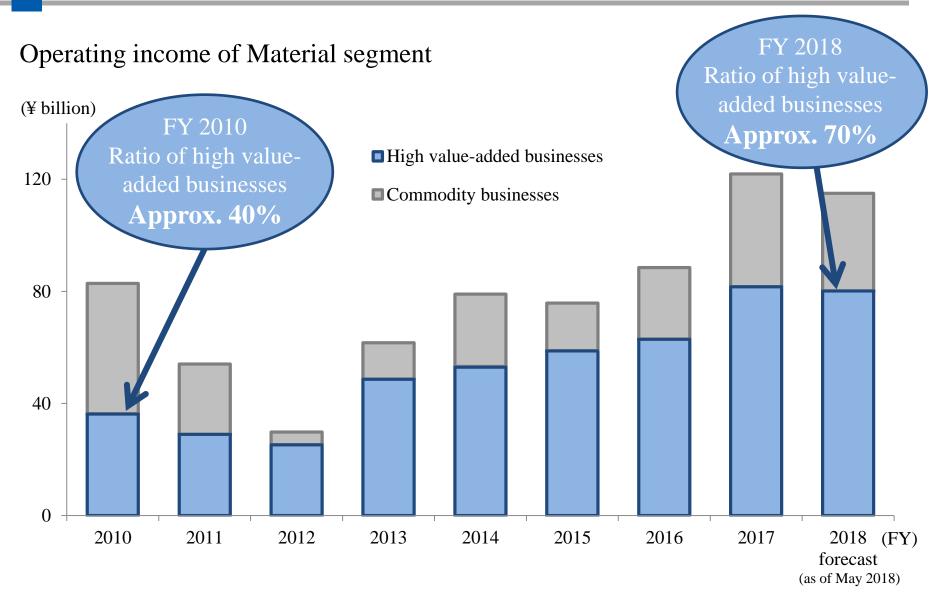




- ✓ Swiftly meeting various market needs with both wet-process and dryprocess separators
- ✓ Further expand capacity to meet rising global demand



3.1.6. Material (growth in high value-added businesses¹)



¹ High value-added businesses: fibers, synthetic rubber, engineering plastics, coating materials, ion-exchange membranes, electronic materials, consumables, separators, electronic devices, etc.



3.2.1. Homes

Healthy/comfortable longevity with peace of mind

Enabling rich lifestyle with peace of mind

Order-built homes, condominium construction

Hebel Haus unit homes

Hebel Maison apartment buildings

Atlas condominiums

Services

Remodeling

Rental management

Agency



Extending and broadening the value chain



2. Homes for seniors

3. Overseas business

Enriched services

Construction Materials

base of support for life and living

- Hebel AAC panels
- Insulation panels
- Foundation systems
- Structural systems and components

For Asahi Kasei Homes

For the general market

New markets
New products

Development of new core businesses

Homes business

1. Medium-rise homes (5–8 stories)

Full-fledged sales of Hebel Building System launched in FY 2017



New business

- Rebuilding of commercial building at Machida station, in Tokyo
- Start of management of owned real estate



2. Homes for seniors

Expansion of Hebel Village apartments for seniors



3. Overseas business

Leveraging know-how in standardization and systemization for homes construction in Australia (Capital alliance with Australian homes company in 2017)



Construction Materials business

January 2018 launch of Neoma Zeus with the highest level of insulation performance: Studying development for non-housing applications





3.3.1. Health Care

Healthy/comfortable longevity with peace of mind

Progress in strengthening domestic profitability and reinforcing the global business platform

→ Growing to be 3rd major pillar of the Asahi Kasei Group after Material and Homes

Business fields and targets

Strengthening domestic earnings

Orthopedics

- Teribone osteoporosis drug
- Kevzara Subcutaneous Injection for rheumatoid arthritis

Pharmaceuticals

Bioprocess

Planova virus removal filters

Capturing global demand growth

Other healthcare-related

Providing value globally

Critical Care

- Defibrillators
- Recomodulin recombinant thrombomodulin

Devices

Blood purification

- Dialysis
- Therapeutic apheresis
- Leukocyte reduction filters

Maximizing earnings in line with changing needs

3.3.2. Health Care

Orthopedics

- ✓ Expanded product lineup in orthopedics
 - Launch of Reclast for osteoporosis
 - Launch of Kevzara Subcutaneous Injection for rheumatoid arthritis
 - License agreement for PREOB bone cell therapy product
- ✓ Approval for extension of maximum duration of treatment for Teribone osteoporosis drug

Critical Care

- ✓ Advanced global clinical trial for Recomodulin recombinant thrombomodulin
- ✓ Expanded market share of defibrillators, increased market penetration of LifeVest wearable defibrillator
- ✓ Advanced clinical trial of intravascular temperature management (IVTM) system in the area of acute myocardial infarction

Blood purification

- ✓ Continuous expansion of dialysis business in China
- ✓ Reinforced domestic business configuration

Bioprocess

✓ Expanding production capacity for Planova virus removal filters



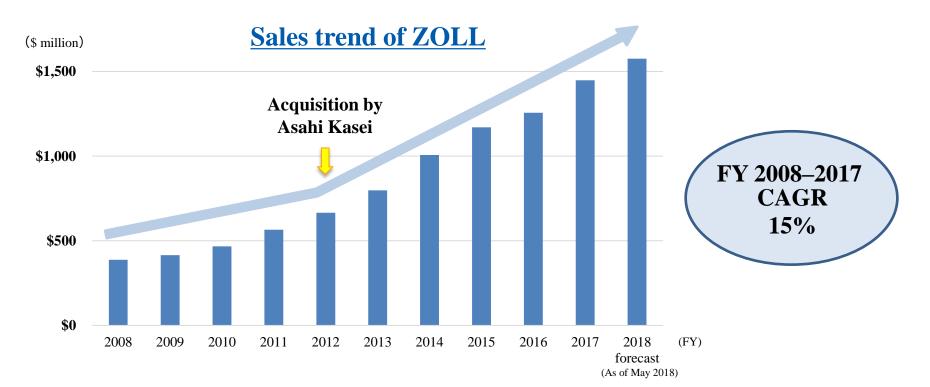
3.3.3. Health Care (Critical Care)

Continuous growth and proactive expansion

- ✓ Increasing market penetration of LifeVest wearable defibrillator
- Expanding and maintaining market share of resuscitation business, such as defibrillators for professional use and AEDs
- ✓ Expanding intravascular temperature management (IVTM) system into area of acute myocardial infarction

LifeVest

- The only wearable defibrillator which received regulatory approval
- Used by approximately 300,000 patients worldwide
- Achieving high growth in Germany, following the US





3.4.1. Creation of new businesses

Clean environmental energy

Healthy/comfortable longevity with peace of mind

High value-added businesses

Alkaline water electrolysis system

Cellulose nanofiber

UVC LED for disinfection

DRC process for **DPC** (using CO₂ as feedstock)

CO₂ sensor

Stent graft for abdominal aortic aneurysm

Start of R&D center in Europe



Core technologies fostering and acquiring



Open innovation CVC

Renewal of "Group Masters" program from the view of new business creation

→ fostering and strengthening human resources, and reinforcement of technology to strengthen business



3.4.2. Creation of new businesses (CO₂ gas sensor business)

Clean environmental energy

Healthy/comfortable longevity with peace of mind

Air quality

Human health **Productivity**

Well-sealed buildings (increased CO₂ concentration)

Energy saving

Efficient ventilation

Global warming

 CO_2 refrigerant

CO₂ gas sensor

Application for invisible optics sensing technology

Compound semiconductors (Asahi Kasei)

CO₂ sensor modules (Senseair AB)

Small size High sensitivity Low power consumption Long life Fast response



Potential use for different gases and various purposes

Alcohol In detection homes In vehicles Agriculture

Mass transit

Outside

air



3.5. Acceleration of globalization

| | Capturing demand growth | Provision of new value | Actions to accelerate global development |
|------------------|--|--|---|
| Asia | Capacity expansion for S-SBR Capacity expansion for spunbond nonwovens for diapers Establishment of Xyron mPPE joint venture Capacity expansion for Daramic lead-acid battery separator | | Strengthening local management human resources |
| North America | Capacity expansion for Celgard LIB separator Start-up of new plant of resin compounds | Advancing clinical trial for ART-123 (recomodulin recombinant thrombomodulin) Receipt of 510(k) clearance from the US Food and Drug Administration for Lucica Glycated Albumin-L, an in vitro diagnostic assay kit for glycated albumin | Reinforcing CVC activity |
| Europe | | Acquisition of shares of Senseair AB, starting CO₂ sensor modules business | Start-up of Asahi Kasei Europe GmbH Start-up of R&D Center |
| Others | Selection of Microza hollow-fiber membrane for a seawater desalination plant in Kuwait, representing the company's largest-scale hollow-fiber filtration membrane order | Capital alliance with McDonald Jones Homes Pty Ltd of Australia, advancing standardization and systemization in homes construction Launch of Klaran UVC LED | Assigning executive officers for China, North America, and Europe to integrate each region |



3.6.1. Building the base for sustainable growth

Compliance

The "three actuals"

- Group Code of Conduct
- Inspection for risks
- Ensuring compliance
- •Dedicated committee chaired by the President

Heightening business activities

Digital transformation

- Material informatics
- Applying IoT
- Analyzing technologies and businesses



Production innovation New business creation Human Resources

Corresponding to businesses

- •Revising system of management by objectives
- •New system for highly specialized human resources
- •Fostering next generation of leaders
- •Measures for work style reform



3.6.2. Heightening business activities

Speed

Material Informatics (MI)

Improving development speed

Labor saving

Robotic Process Automation

(RPA)

Improving efficiency by automation

Innovation

Internet of Things

(ToI)

Improving productivity Preventive maintenance Changing business models

Strategy

IP Landscape (IPL)

Formulating strategies based on IP

Digital Transformation

Corporate IT Management, IoT Promotion Dept., Material Informatics Dept., Corporate IP, Planning & Coordination

Tasks requiring experience

Repetitious manual tasks

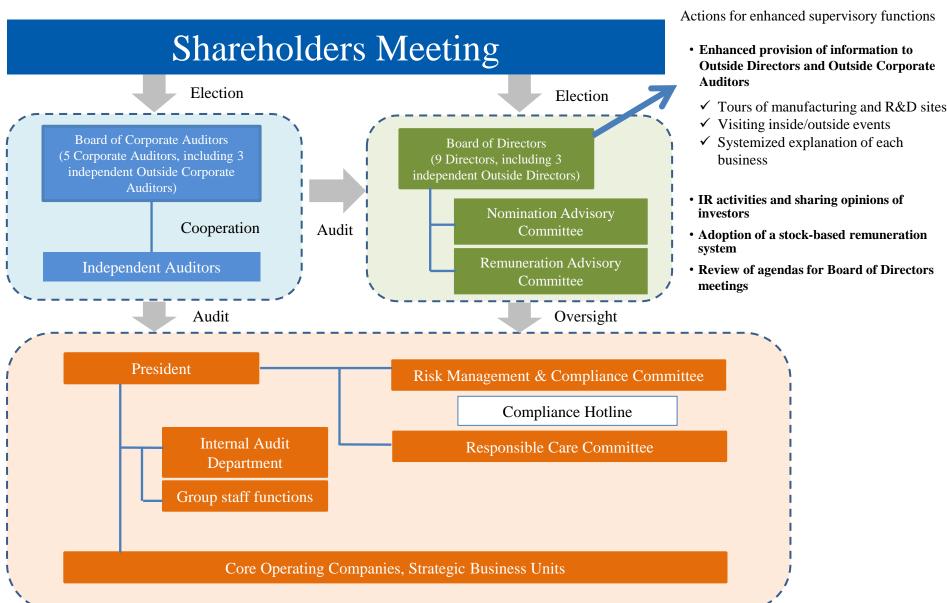
Tasks requiring experience and instinct Corrective maintenance

Individual patent search

Business units, R&D units, administrative units



3.7. Corporate Governance to enhance corporate value







4. Completing "Cs for Tomorrow 2018"

4. Completing "Cs for Tomorrow 2018"

Performed

Achieved main financial targets

Measures for high-profitability and high value-added businesses

- Capacity expansions to capture global demand
- Resources focused on "clean environmental energy" and "healthy/comfortable longevity with peace of mind"
- Actions toward new value creation

Reinforced foundations for now and the future

- Compliance
- Human resources
- Utilization of IoT and AI

For fiscal 2025

Maximizing Group capabilities

• Connections among diverse businesses, human resources, and technologies

Additional strategic measures

- Further strengthening businesses with competitive advantage
- Enhancing the manufacturing infrastructure
- Performing strategic M&A

Strengthening and developing business foundations

- Improving productivity (work style reform)
- Innovating and heightening businesses by IoT and AI (digital transformation)
- Maintaining risk management and thorough compliance

Accelerating creation and launch of new businesses

- Strengthening CVC activities
- Reinforced coordination with outside entities

Creating for Tomorrow

The commitment of the Asahi Kasei Group:

To do all that we can in every era to help the people of the world

make the most of life and attain fulfillment in living.

Since our founding, we have always been deeply committed

to contributing to the development of society,

boldly anticipating the emergence of new needs.

This is what we mean by "Creating for Tomorrow."





<u>Disclaimer</u>

The forecasts and estimates shown in this document are dependent on a variety of assumptions and economic conditions. Plans and figures depicting the future do not imply a guarantee of actual outcomes.



Activities for SDGs

| 1 1 7 30 13 | SUSTANABLE GOALS | Asahi KASEI Main examples in the Asahi Kasei Group |
|-------------------------|---|---|
| 1 | NO POVERTY | Supply chain of Bemberg Cupro fiber in India |
| 2 | ZERO HUNGER | Film for keeping food fresh |
| 3 | GOOD HEALTH AND WELL-BEING | Health Care business for living in health and comfort |
| 4 | QUALITY EDUCATION | School visits and lectures for public outreach |
| 5 | GENDER EQUALITY | Asahi Kasei Group Code of Conduct |
| 6 | CLEAN WATER AND SANITAION | Water filtration membranes and UVC LEDs |
| 7 | AFFORDABLE AND CLEAN ENERGY | Battery separators for harmony with the environment |
| 8 | DECENT WORK AND ECONOMIC GROWTH | Asahi Kasei Group Code of Conduct, HR Principles |
| 9 | INDUSTRY, INNOVATION AND INFRASTRUCTURE | R&D and new business creation |
| 10 | REDUCED INEQUALITIES | Asahi Kasei Group Code of Conduct |
| 11 | SUSTAINABLE CITIES AND COMMUNITIES | Homes business for living in health and comfort |
| 12 | RESPONSIBLE CONSUMPTION AND PRODUCTION | Responsible Care Policy |
| 13 | CLIMATE ACTION | Reduced GHG emissions, life cycle assessment |
| 14 | LIFE BELOW WATER | Wastewater treatment, Responsible Care Policy |
| 15 | LIFE ON LAND | Piles w/reduced soil disposal, Responsible Care Policy |
| 16 | PEACE, JUSTICE AND STRONG INSTITUTIONS | Asahi Kasei Group Code of Conduct |
| 17 | PARTNERSHIPS FOR THE GOALS | Production and joint ventures in developing countries |



Community Fellowship

Asahi Kasei has various community fellowship activities at locations around the world

Nurturing the Next Generation



Science demonstration at elementary school

Coexistence with the Environment



Forest planting

Promotion of Sports



Distance running team (New Year Ekiden)



Judo team (Olympic Medals)





Sports instruction and workshops for children