

May 29, 2019 Asahi Kasei Corporation

Asahi **KASEI**



Outline

- 1. Review of "Cs for Tomorrow 2018" and business environment
- 2. Vision and goals
- 3. Medium-term management initiative "Cs+ for Tomorrow 2021"

Disclaimer

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





(1) Financial results

Profit growth achieved during previous initiative, with operating income at new record high
exceeding the target

Cs for Tomorrow 2018

	(¥ billion, unless otherwise specified)	FY2015	FY2016	FY2017	FY2018	15–18 annual growth	FY2018 target announced Apr. 2016
	Net sales	1,940.9	1,883.0	2,042.2	2,170.4		2,200.0
	Operating income	165.2	159.2	198.5	209.6	8.3%	180.0
	Operating margin	8.5%	8.5%	9.7%	9.7%		8.2%
Dunfitabilita.	EBITDA ¹	274.8	268.4	311.9	313.7	4.5%	300.0
Profitability	EBITDA margin	14.2%	14.3%	15.3%	14.5%		13.6%
	Net income	91.8	115.0	170.2	147.5		110.0
	EPS (¥)	66	82	122	106	17.2%	78
Capital	ROIC ²	7.9%	7.8%	9.7%	8.8%		7.0%
efficiency	Net income per shareholders' equity (ROE)	8.6%	10.5%	14.0%	11.1%		9.0%
Shareholder	Dividends per share (¥)	20	24	34	34		
returns	Total return ratio	30.4%	29.1%	27.9%	39.0%		35.0%
Financial health	D/E ratio	0.43	0.35	0.23	0.31		0.50
	Exchange rate (¥/\$)	120	108	111	111		110

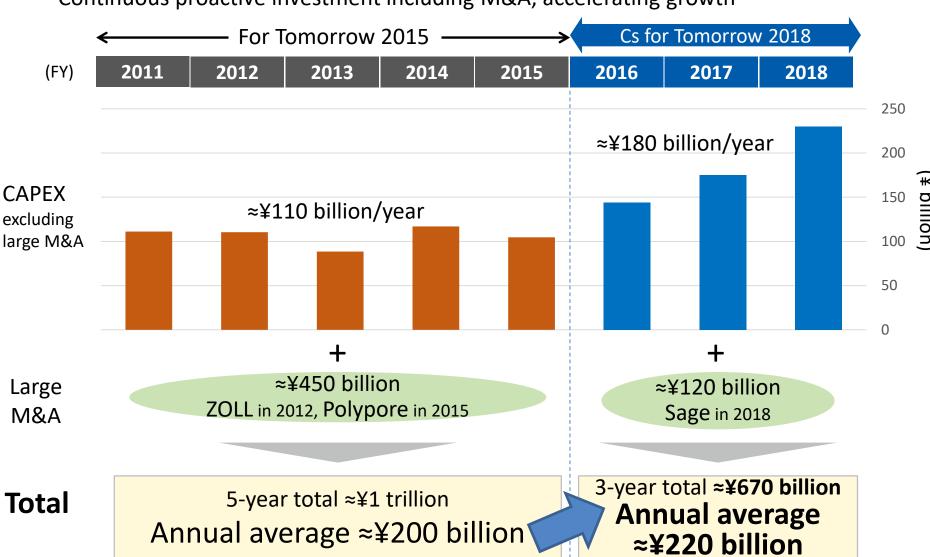
 $^{^{\}rm 1}$ Operating income, depreciation, and amortization (tangible, intangible, and goodwill)

² (Operating income – income taxes) / average annual invested capital



(2)-1 Capital expenditure

Continuous proactive investment including M&A, accelerating growth



Note: Figures on decision-adopted basis



(2)-2 Capital expenditure: target markets

Investments centered on key fields such as Automotive and Environment/Energy

Health Care & Hygiene

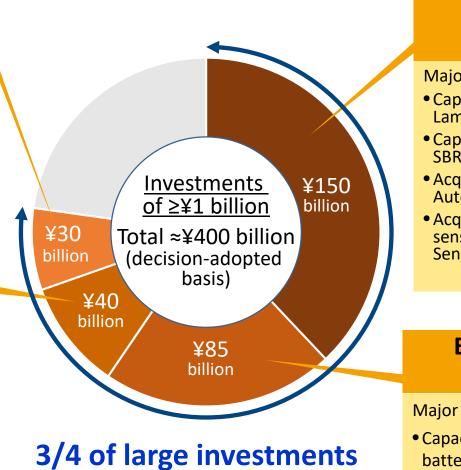
Major investments:

- Capacity expansion of spinning for Planova virus removal filters
- Augmenting pharmaceutical product pipeline
- Capacity expansion of spunbond for disposable diapers

Homes

Major investments:

- Capital alliance with Australian home-builder McDonald Jones Homes Pty Ltd
- Acquisition of US supplier of pre-fabricated building products Erickson Framing Operations LLC
- Capital alliance with Mori-Gumi Co., Ltd.



Automotive

Major investments:

- Capacity expansion for Lamous microfiber suede
- Capacity expansion for S-SBR for fuel-efficient tires
- Acquisition of Sage Automotive Interiors, Inc.
- Acquisition of Swedish gas sensor module maker Senseair AB

Environment/ Energy

Major investments:

 Capacity expansion for Li-ion battery separator



(3) Business Environment

Expectations for sustainability; changing industrial structure













Explosive population growth







Changing trade environment





(1) Sustainability for Asahi Kasei

Contributing to **sustainable** society

Providing solutions to the world's challenges

Business development; Innovation

Internal and external connections/dialogue

High profitability

→ Return to

stakeholders

Sustainable growth of corporate value

Sincerity, Challenge, Creativity

(2) Portfolio transformation

Vision of founder Shitagau Noguchi

"As industrialists, we must be cognizant that, to improve the living standard, our ultimate mission is to contribute to people by supplying abundant highest-quality daily necessities at the lowest prices."



Contributing to sustainable society

Grasping social needs, dynamic portfolio transformation, developing business that makes life better



Social need:
Higher standard of living in developing countries

Acceleration of globalization

Diversity &

Capability to

change

Social need: Abundance of goods



Social need:

Comfort and

convenience

Petrochemicals/synthetic fibers

Social need: Establishment of livelihood base

Chemical fertilizer/regenerated fiber/explosives

1920s 1950s

1970s

2000s

Const. mat./homes

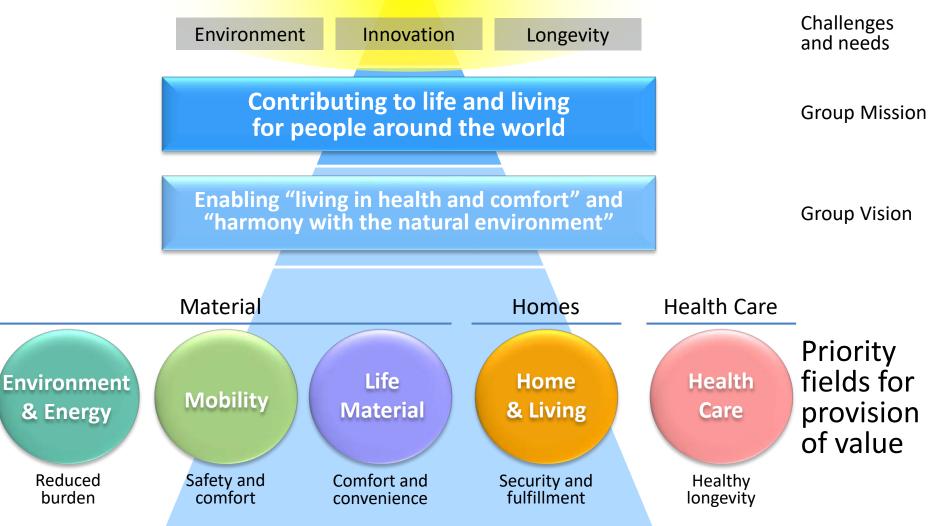
Electronic devices/materials

Healthcare



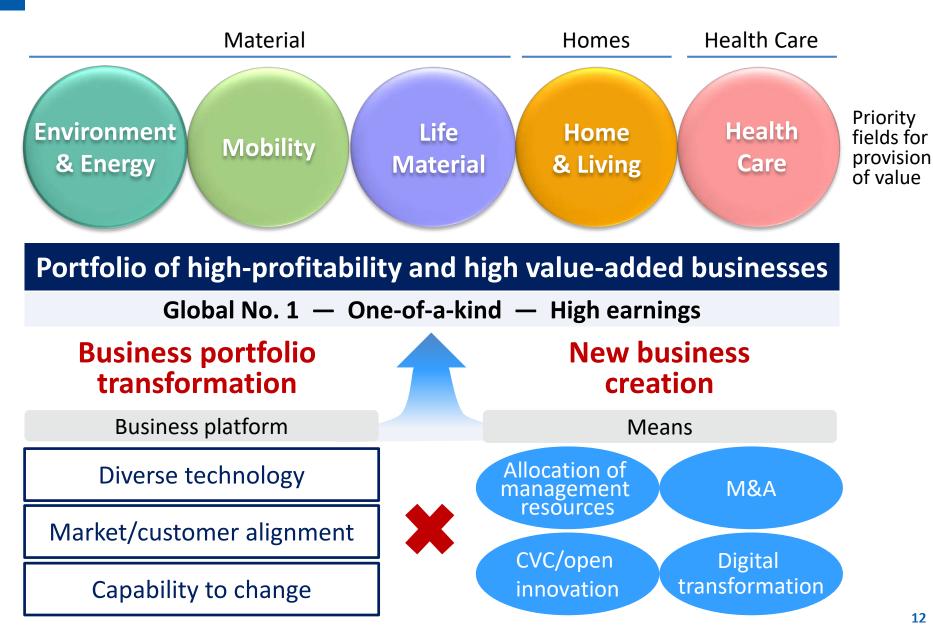
(3) Priority fields for provision of value

Contributing to sustainable society





(4) How we create value





(5) Approach to realize sustainable society

13 CLIMATE ACTION

Reducing greenhouse gas (GHG) emissions

- Expanding businesses that help reduce GHG emissions
- Reduced emissions from our own production processes







Solutions to plastic issues

- Reduce, Reuse, Recycle
- Elucidating the mechanism of microplastic formation
- Sharing issues







15 LIFE ON LAND

Proactive measures, not only alone but also in concert with other companies and associations



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3. Medium-term management initiative "Cs+ for Tomorrow 2021"

(1) Stance for "Cs+ for Tomorrow 2021"



(2) Concept

Contributing to sustainable society

Contributing to life and living for people around the world

Priority fields for provision of value

Environment & Energy

Mobility

Life Material

Home & Living

Health Care

New "C"

Care for People, Care for Earth

Employee action principles

Creating new value

"Cs" in CT2018

Compliance Communication

Connect

Challenge

Strengths

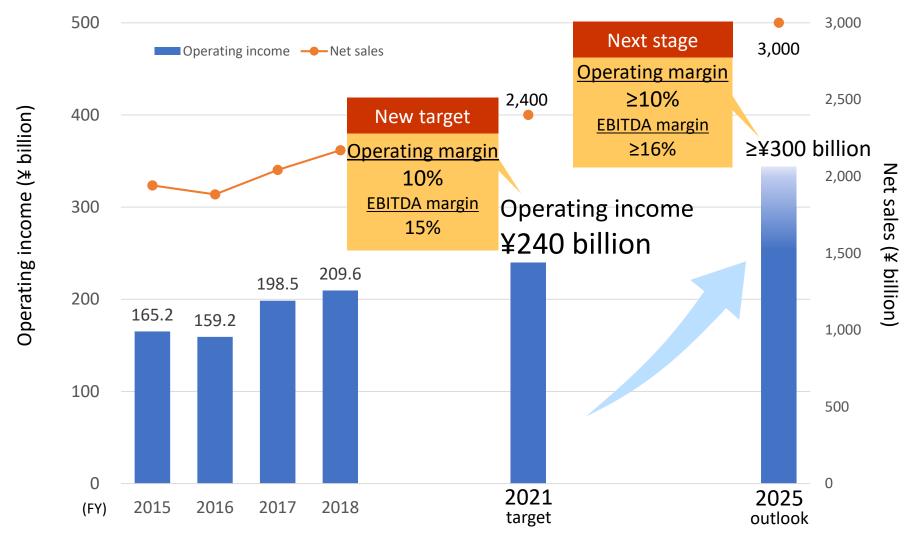
Diversity & Capability to change



(3) Financial objectives

Sustainable profit growth exceeding global GDP growth

→ "Portfolio of high-profitability and high value-added businesses"



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(3) Financial objectives: performance metrics

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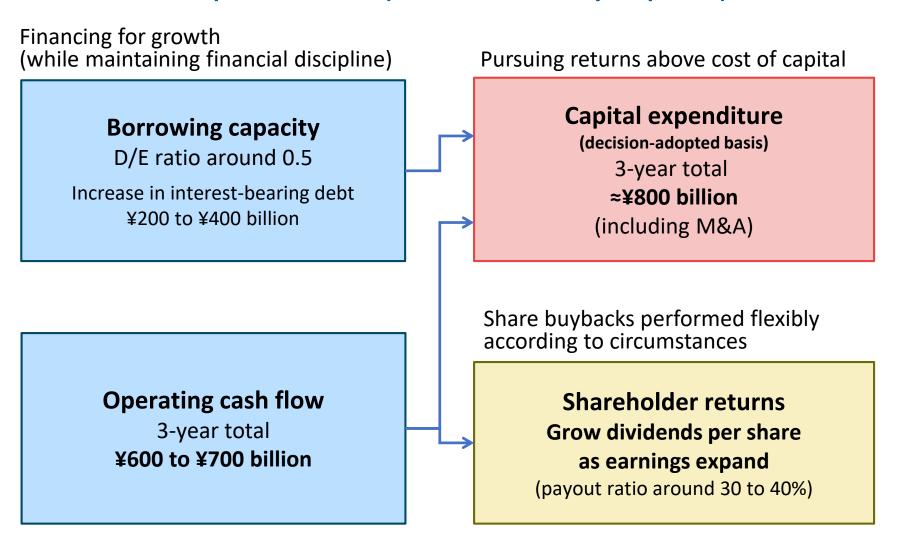
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² (Operating income – income taxes) / average annual invested capital



(3) Financial objectives: Capital allocation

Framework for capital allocation (FY2019–FY2021 3-year period)



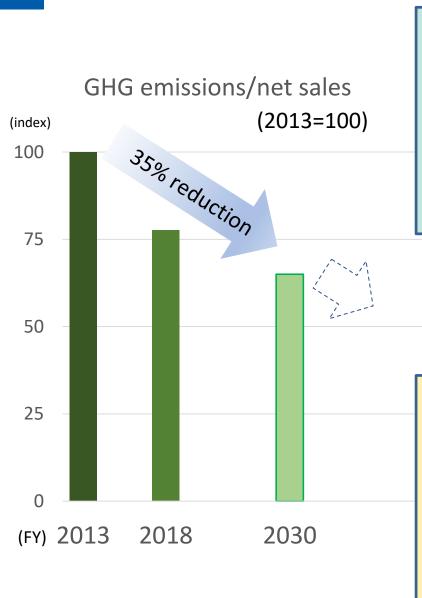
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3. Medium-term management initiative "Cs+ for Tomorrow 2021"

(3) Financial objectives: dividend policy



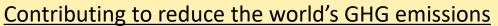
(3) Objectives for sustainability



Reducing our own GHG emissions

- Further reduction in GHG emissions Installing lower-emission equipment, optimizing plant operation
- Greater use of low-carbon energy Increasing renewables and LNG
- R&D for further GHG reduction

Toward a sustainable society



- Businesses that contribute to energy conservation and reduced GHG emissions
 - Battery separators, lightweighting resins, net zero energy houses, CO₂ sensors, etc.
- Technology development/commercialization for clean environmental energy

Green hydrogen production, CO₂ chemistry, etc.

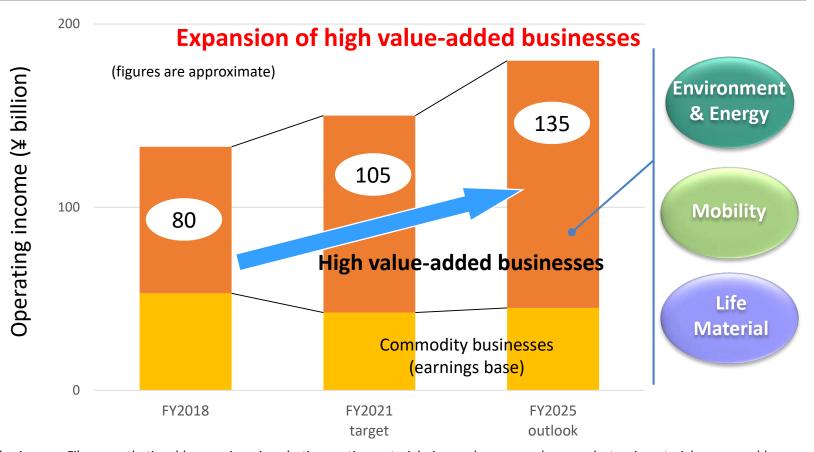




(4)-1 Growth Strategy: Material

Basic strategy

Flexible allocation of management resources to priority fields



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(4)-1 Growth Strategy: Material -Environment & Energy

Contributing to the environment with various technology (CO₂ chemistry, semiconductors, etc.)



Global challenges/trends



Greater adoption of clean energy



Transition to low-carbon society

Care for Earth

Clean energy

Battery separators
Alkaline water electrolysis system
to produce green hydrogen



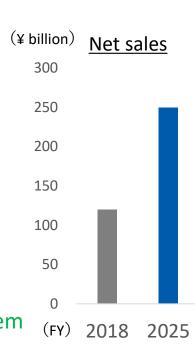
CO₂ sensors Water filtration modules Ion-exchange membranes

Low-carbon society

Next-generation CO₂ chemistry New CO₂ separation/recovery system

Green indicates under development Note: Some overlap with other fields





S-SBR for tires

EV/HEV

Lightweighting materials

Green indicates under development

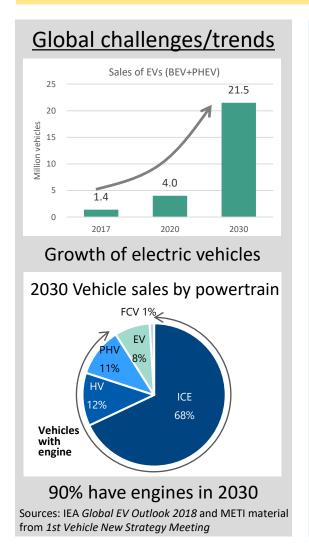


Net sales

(4)-1 Growth Strategy: Material - Mobility

Contributing to the future of mobility with technology for safety, comfort, and environment





Care for People **AKXY POD vehicle interior concept** Safety and security Airbag material Alcohol sensor Contactless pulse sensing (¥ billion) **Comfortable space** 600 Lamous microfiber suede Low-VOC* material 500 A/C CO₂ Sensors * Volatile organic compounds 400 Care for Earth 300 Fuel economy



(4)-1 Growth Strategy: Material -Life Material

Contributing to healthy and comfortable daily life with distinctive products and technological strength





Global challenges/trends



Global population growth



5G Communications revolution

Care for People

Comfort/convenience

Disposable diaper material 5G-related (glass fabric, etc.) Regenerated cellulose fiber

Health

Pharmaceutical/food additives UVC LEDs for disinfection

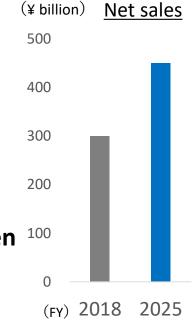
Care for Earth

Reducing food loss/ Reduced environmental burden

Saran Wrap Ziploc

Water-washable printing plates





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3. Medium-term management initiative "Cs+ for Tomorrow 2021"

(4)-1 Growth Strategy: Material -unit strategy

Priority fields for provision of value

Environment & Energy



Basic Materials SBU

Strengthening as the base of earnings for the Asahi Kasei Group

→ Advancing Sustainable Chemistry



Performance Products SBU

Expansion centered on fields of Mobility and Life Material

→ Strengthening business infrastructure for Mobility in Europe, North America, China

Mobility





Specialty Solutions SBU

Expansion centered on fields of Environment & Energy and Life Material

→ Expansion of core businesses



Asahi Kasei Microdevices Corp.

Advanced technology innovation; providing value that meets needs (discerning market trends for the Asahi Kasei Group)

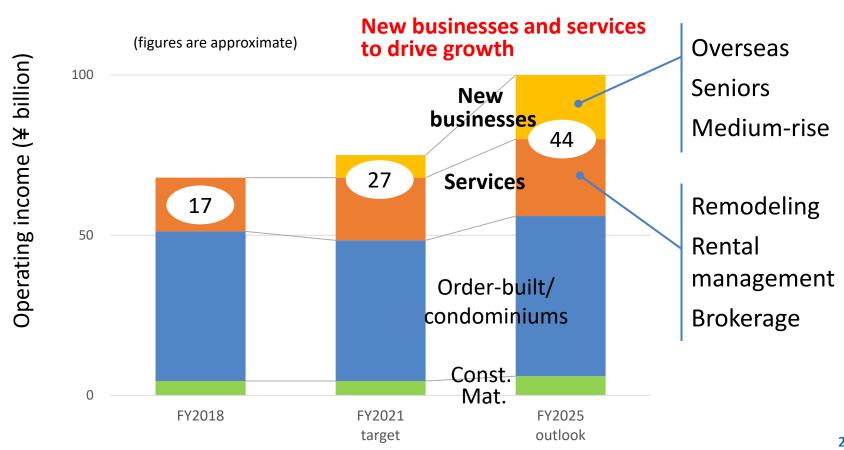
→ Expansion in automotive, industrial applications



(4)-2 Growth Strategy: Homes

Basic strategy

Reinforcing and extending value chain management





(4)-2 Growth Strategy: Homes

Contributing to superior social infrastructure and comfortable living through our know-how gained in urban markets





Challenges/trends in Japan



More frequent natural disasters



Diversification of lifestyles

Care for People

Safety/security

60-year long-life homes
Disaster-resistance
Long-term retention of asset
value

Comfort/health

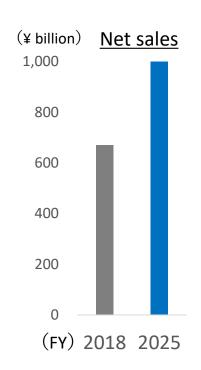
Living in a good thermal environment
Diverse modes of residence

Care for Earth

Environment

Net zero energy houses Photovoltaic power High-performance insulation

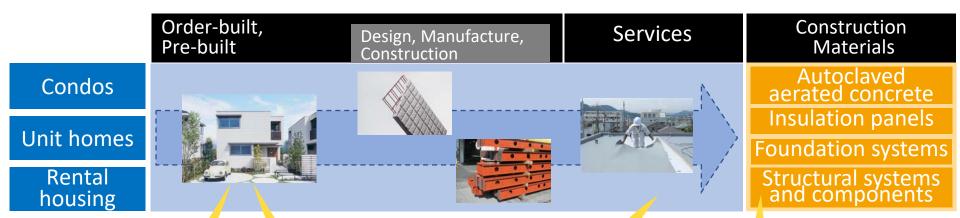






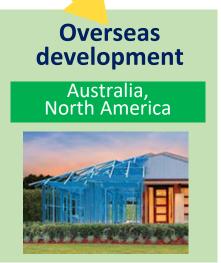
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(4)-2 Growth Strategy: Homes



Developing related/growth markets by leveraging our strengths





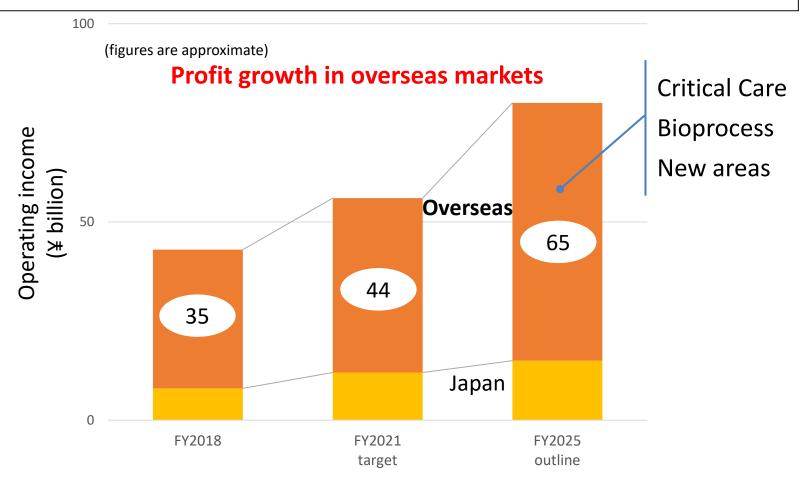




(4)-3 Growth Strategy: Health Care

Basic strategy

Further accelerating transformation to a global health care company





(4)-3 Growth Strategy: Health Care

Contributing to healthy longevity with pharmaceuticals and medical devices discerning the needs of the aging society



Global challenges/trends



Rapid aging of society

1	(angina, acute myocardial infarction, cardiac arrest)
2	Stroke (hemorrhagic and ischemic)
3	Chronic obstructive pulmonary disease
4	Lower respiratory infections

Ischamic haart disaasa

Top 5 global causes of death
Source: WHO fact sheet

5 Alzheimer disease and other dementias

Care for People

Treatment Acute conditions (critical care, circulatory)

Recomodulin, Thermogard, therapeutic apheresis, defibrillators, LifeVest, acute myocardial infarction, stroke

<u>Chronic conditions (orthopedics, dialysis)</u>

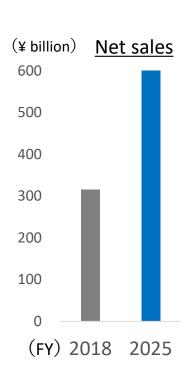
Teribone, Reclast, Kevzara, dialysis, autoimmune disease, pain relief

Biosafety

Supporting the safety of biotherapeutics

Virus removal filters, bioprocess equipment Green indicates under development







(4)-3 Growth Strategy: Health Care

Global operations

Accelerating transformation to be a global health care company by optimizing business infrastructures to develop world-wide business

New innovation

Creating new products and services by promoting connections within the Group and by incorporating innovation globally

Strengthening existing business

Strengthening profitability of existing pharmaceuticals and medical devices, building a stable business platform able to withstand changes in the market environment

Stronger organization

Ensure steady implementation of each measure to strengthen sales of existing products and reinforce the product pipeline

Promotion of strategic business development

Seeking M&A opportunities not only in existing areas but also in new areas, and acquiring businesses that contribute to sustainable growth

(4)-4 Growth Strategy: Key financial objectives by sector

(¥ billion)		FY2015	FY2018	15–18 annual growth	FY2021 target	18–21 annual growth	FY2025 outlook
	Net sales	1,004.4	1,176.2	17.8%	1,350.0	5.0%	1,600.0
	Operating income	79.2	129.6		150.0		180.0
Material	Operating margin	7.9%	11.0%		11.1%		11.3%
	EBITDA	139.8	189.5		240.0		280.0
	EBITDA margin	13.9%	16.1%		17.8%		17.5%
	Net sales	632.4	659.8	-1.3%	750.0	3.2%	1,000.0
	Operating income	71.0	68.2		75.0		100.0
Homes	Operating margin	11.2%	10.3%		10.0%		10.0%
	EBITDA	80.5	77.3		89.0		120.0
	EBITDA margin	12.7%	11.7%		11.9%		12.0%
	Net sales	285.4	316.2		370.0		600.0
	Operating income	36.2	41.8	4.9%	56.0	10.2%	80.0
Health Care	Operating margin	12.7%	13.2%		15.1%		13.3%
	EBITDA	67.4	68.4		83.0		135.0
	EBITDA margin	23.6%	21.6%		22.4%		22.5%

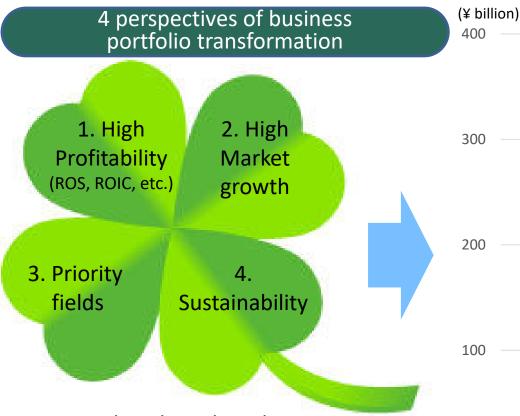
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Material

(5)-1 Action plan: Business portfolio transformation

Profitable structure with sustainable and high value-added businesses through business portfolio transformation

400



(commodity businesses) 300 Material (high value-added businesses) 200 Health Care 100 Homes 0 FY2016 FY2017 FY2018 FY2025

Operating income*

Decision-making based on the 4 perspectives

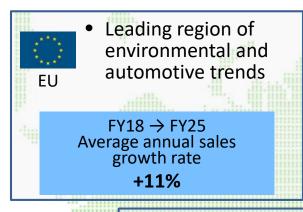
- Allocation/reallocation of human resources and capital
- Continuously seeking non-linear and immediate opportunities including M&A

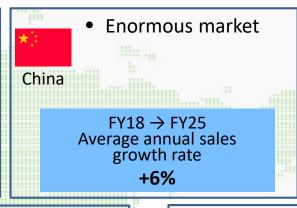
*Sum of outlook for each sector differs from consolidated total

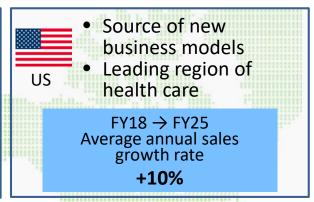
outlook

(5)-2 Action plan: Strengthening global operations

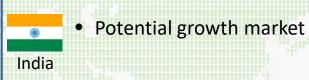
Businesses expansion in accordance with market characteristics; promoting growth and creating synergies through regional coordination among different businesses







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- Potential growth market
- Major production sites

Functions provided by each of the regional headquarters

- Disseminating the Group Mission
- Strengthening executive management
- Recruiting/training local personnel

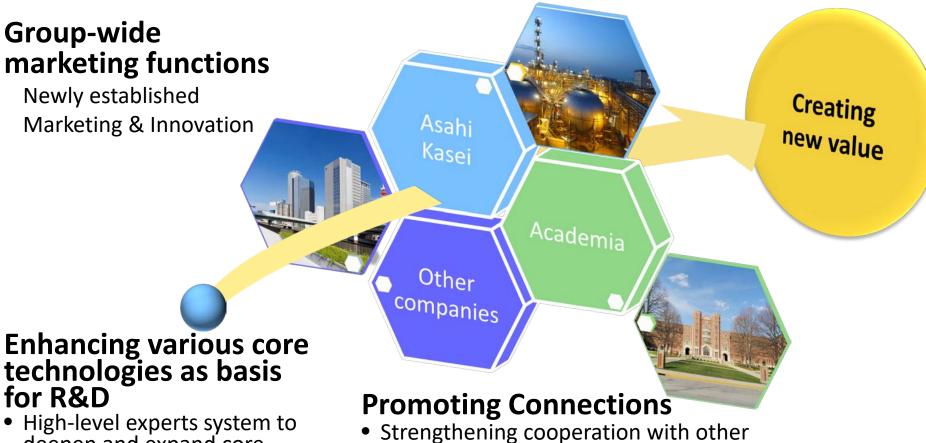
- Sharing information
- Group-wide marketing
- Promoting R&D



(5)-3 Action plan: Creating new businesses

Basic concept for creating new businesses

Various core technologies x Marketing functions x Connections



companies, government/academia and

internal cooperation among sectors

- High-level experts system to deepen and expand core technologies
- Promoting digital transformation by nurturing experts

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3. Medium-term management initiative "Cs+ for Tomorrow 2021"

(5)-3 Action plan: Creating new businesses

Care for People

Care for Earth

Examples of new business

Alkaline water electrolysis for hydrogen production

High performance composites (cellulose nanofiber, etc.)

UVC LEDs

New sensors (CO₂ sensor, odor sensor, etc.) Materials related to new batteries/cells (solid-state battery/fuel cell)

Examples of core technologies

Polymerization Spinning

Polymers Processing Catalysts Processes

Compound semiconductors
LSIs

Membranes Separation

Anti-quake/Anti-fire Durability/Insulation



(5)-4 Action plan: Strengthening the platform

-heightening businesses

Heightening by digital transformation

Digital Marketing

Establishing an effective and efficient strategy

Materials Informatics

Dramatically improving development speed

Production technology innovation

Enahancing productivity by IoT **IP Landscape**

Formulating strategies based on IP

Strengthen the IT infrastructure Data platform, Tools, Human resources

Trends and issues to consider

Game changing

Productivity revolution

Technology handover

IP strategy

Increase digital professional personnel to over 150 people by March 2022 to accelerate digital transformation

(5)-4 Action plan: Strengthening the platform -HR

Creating new value by diversity and capability to change

Human resources

Working environment

Leadership development program

Growth of experts and line managers

Leveraging local personnel



Liveliness Creativity



Expertise

Continuous human resource development (engagement)

Support for life events

Increased options for working styles

Sincerity Challenge Creativity

Linkage with business strategy & business portfolio transformation

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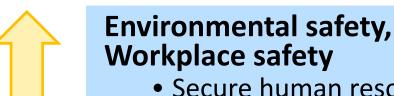
(5)-4 Action plan: Strengthening the platform -safety, quality, risk management, compliance

Creating new value

Compliance

- Raising awareness
- Code of Conduct
- Regular committee meetings
- Before incident Regular inspection
- After incident Clear procedure

Risk management



- Secure human resources
- Prevention measures
- Enlightenment

Diversity Capability

to change

- Ensure quality awareness
- Eliminate human error by
- Secure quality in supply chain

Quality

Strengthening the platform for the Asahi Kasei Group Positioned as key management issue to raise the overall level

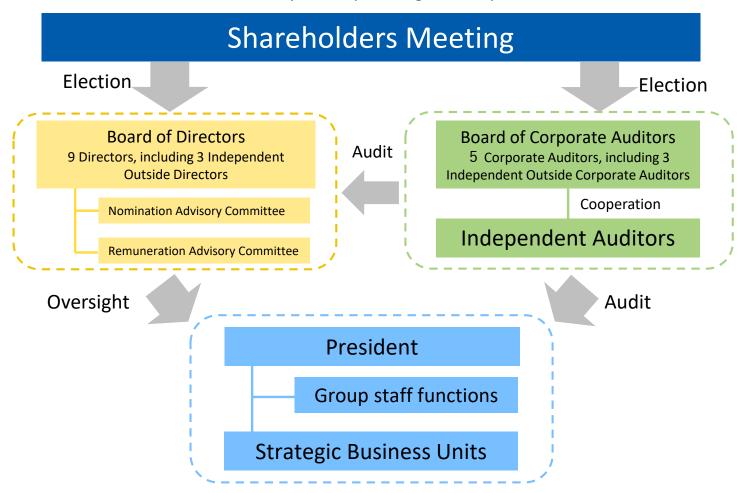


(5)-4 Action plan: Strengthening the platform

-corporate governance

Continuously developing sound corporate governance to ensure "diversity" and "capability to change"

Providing information to, and sharing IR activities with, Outside Directors and Outside Corporate Auditors; stock-based remuneration system; optimizing the composition of officers, etc.



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."

