

ASAHI KASEI CORPORATION

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Asahi Kasei Microdevices Corp.
Hibiya Mitsui Tower, 1-1-2 Yurakucho, Chiyoda-ku, Tokyo 100-0006 Japan
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Asahi Kasei Construction Materials Corp.
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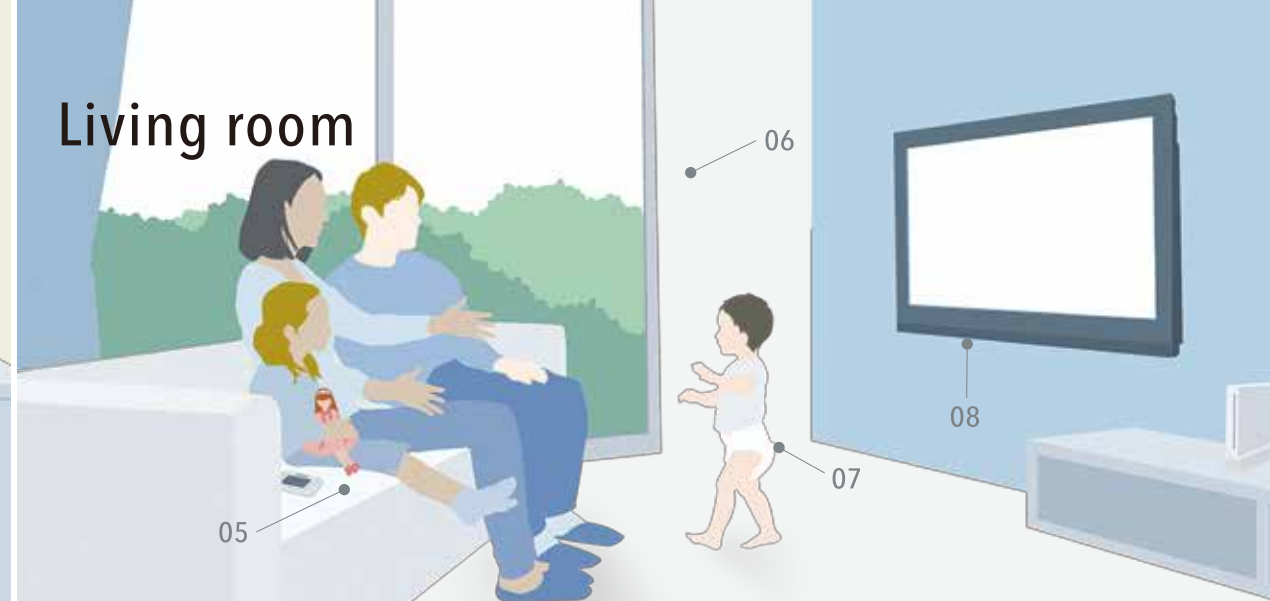
Asahi Kasei Medical Co., Ltd.
Hibiya Mitsui Tower, 1-1-2 Yurakucho, Chiyoda-ku, Tokyo 100-0006 Japan
Phone: +81-(0)3-6699-3750

ZOLL Medical Corporation
269 Mill Rd., Chelmsford, MA 01824-4105 USA
Phone: +1-978-421-9655

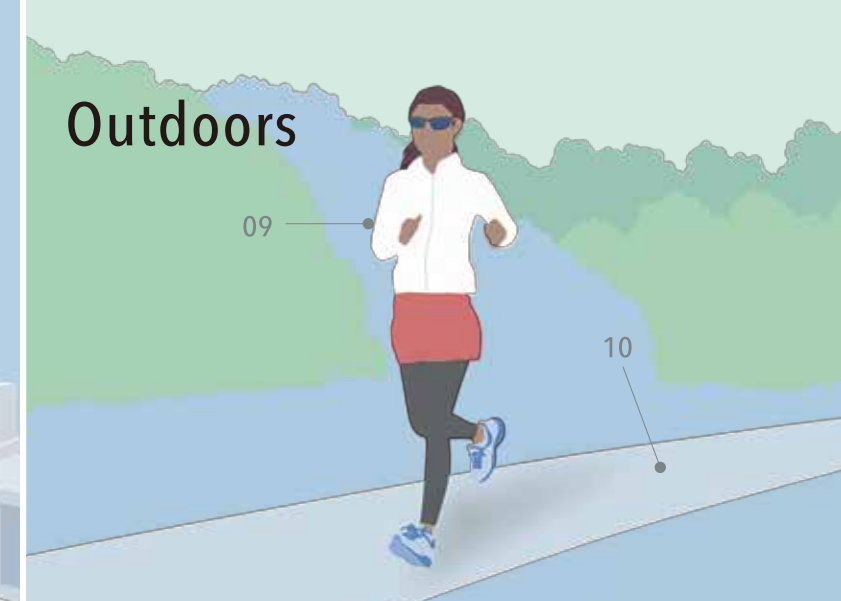
Kitchen



Living room



Outdoors



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."

Automobile



Office



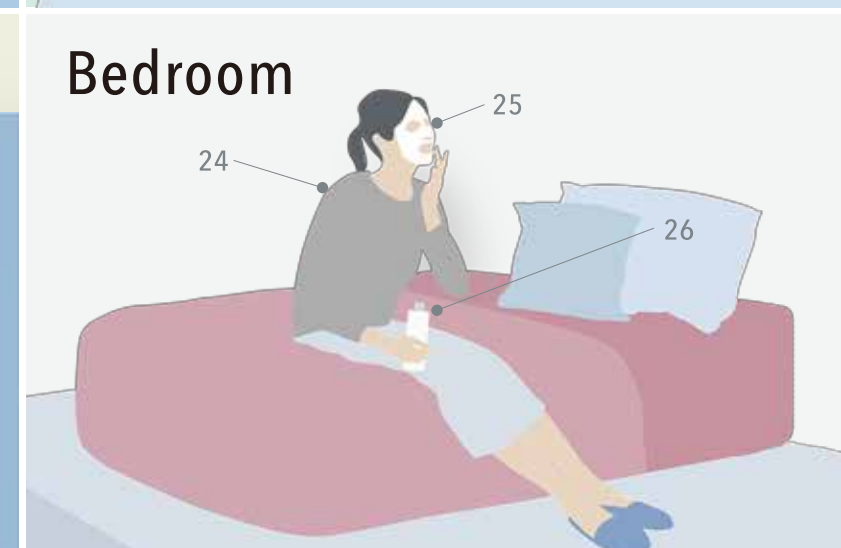
Hospital



Bathroom



Bedroom



Asahi Kasei Products and Technologies in Everyday Life

The Asahi Kasei Group's products and technologies, ranging from Hebel Haus™ unit homes and Saran Wrap™ cling film, and electronic parts used in computers and smartphones, to performance resins for automotive applications, and pharmaceuticals and AEDs that support people's lives, are used in various ways all around us.

- 01 Dishwashing detergent
- 02 Filtration at waterworks plant (hollow-fiber membranes)
- 03 Food preservation, cooking
- 04 Printing of packages (photosensitive resins)
Foods and beverages (microcrystalline cellulose)
- 05 Covering fabric for sofas (artificial suede)
Video game console (ABS resin)

- Doll hair (Saran™ fiber)
- 06 Homes (unit homes, apartment buildings, condominiums)
Construction materials (autoclaved aerated concrete, phenolic foam insulation panels)
- 07 Diapers (spunbond nonwovens, spandex fiber)
- 08 Home electronics (polystyrene, ABS resin)

- Electronic parts (LSIs, Hall elements)
- 09 Sportswear (premium stretch fiber, cupro fiber)
- Zippers (polyacetal)
- 10 Asphalt pavement (thermoplastic elastomer)
- 11 Automobile parts (performance resins)
- 12 Airbags (nylon 66 filament)

- Car navigation & audio system (audio/voice LSIs)
- 13 Tires (S-SBR for fuel-efficient tires)
- 14 Batteries (Li-ion battery separator, lead-acid battery separator)
- 15 Paint
- 16 PET bottle shrink labels (styrenic copolymer)
- 17 Food storage bags and containers

- 18 Smartphone, Laptop computer (Li-ion battery separator, electronic compass, Hall ICs)
- 19 Suit linings (cupro fiber)
- 20 Defibrillators
- 21 Medical devices (dialyzers, therapeutic apheresis devices)
- 22 Prescription drugs
Diagnostic reagents
Drug manufacture (virus removal filters)

- 23 Shampoo (low-irritation surfactant)
- Dispenser bottles (polyethylene)
- 24 Innerwear (cupro fiber)
- 25 Facial mask (cupro nonwoven fabric)
- 26 Skin care products (cosmetics raw materials)

History of diversification and taking challenges to meet the needs of the times

The Asahi Kasei Group has consistently grown through the proactive transformation of its business portfolio to meet the evolving needs of every age. We have consistently provided products and services that form solutions to various environmental and social challenges.

Group Mission

We, the Asahi Kasei Group, contribute to life and living for people around the world.

This is the Asahi Kasei Group's unchanging reason for being. What we never cease to strive for, though the needs of society change throughout the ages. It is in our very nature, deriving from a sincere regard for the people of the world.

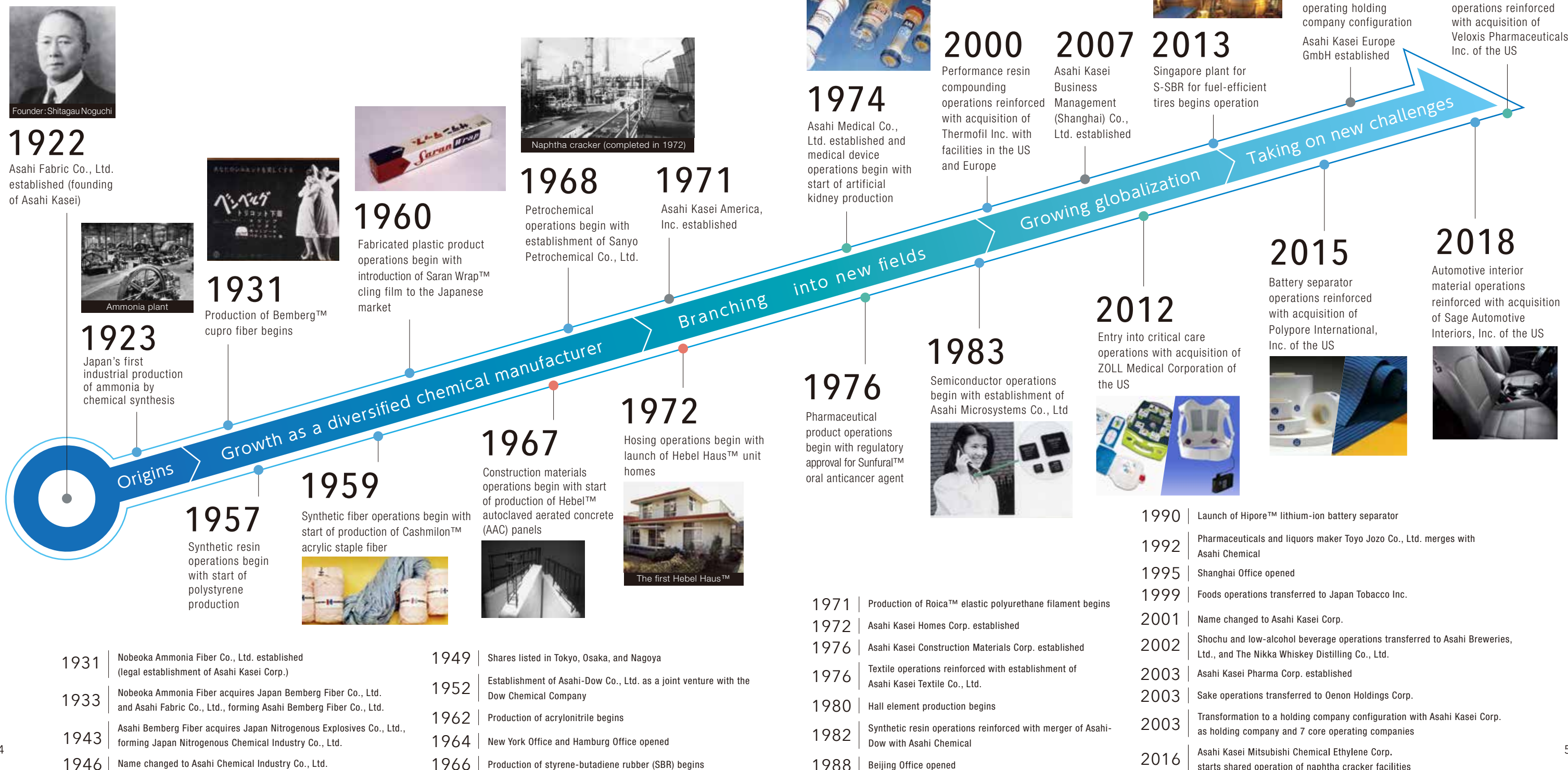
Group Values

Sincerity—Being sincere with everyone.

Challenge—Boldly taking challenges, continuously seeking change.

Creativity—Creating new value through unity and synergy.

● Material ● Homes ● Health Care ● Administrative & Other



Material

With advanced technology and innovative concepts, we develop materials and products that are environmentally friendly with high added value to open new possibilities for the future.



Basic Materials

Operating company | Asahi Kasei

Various basic chemicals and petrochemical products support manufacturing in a wide range of industries that enrich our lives. With responsibility for the overall energy policy of the Asahi Kasei Group, this business advances environmental technology innovation including reduced CO₂ emissions.

Major products

■ Caustic soda, AN, acetonitrile, MMA, styrene, adipic acid, polyethylene, polystyrene



Acrylonitrile

Acrylonitrile is the key production material for acrylic fiber, ABS resin, and many other products. Markets around the world are supplied from our plants in Japan, Korea, and Thailand.



Sunfine™ ultra-high molecular weight polyethylene

Developed with original technology, this polyethylene powder is used to make Li-ion battery separators and high-strength fibers.



Performance Products

Operating company | Asahi Kasei

A broad lineup of competitive products such as fibers & textiles, performance plastics, and S-SBR for fuel-efficient tires lead the global expansion of business, while kitchen & household products and packaging films are mainly supplied to the Japanese market.

Major products

■ Bemberg™ cupro fiber
■ Roica™ premium stretch fiber
■ **Nonwovens:** Eltas™ spunbond, Lamous™ artificial suede, Bemliese™ continuous-filament cellulose nonwoven, Precisé™ multifunctional nonwoven, Eutec™ oil-water separation filters
■ Leona™ nylon 66 filament
■ Leona™ PA 66, Tenac™ POM, Xyron™ mPPE, Stylac™-AS styrene-acrylonitrile, synthetic rubber, elastomer
■ Saran Wrap™ cling film, Ziploc™ storage bags



Bemberg™ cupro fiber

Featuring a smooth feel, attractive luster, and moisture absorption/release, Bemberg™ from cotton linter is used in applications ranging from high-quality suit linings to functional innerwear and ethnic garments.



Nonwoven fabric

Our wide variety of nonwovens includes spunbond for disposable diapers and artificial suede for high-end upholstery and automotive interiors.



Leona™ nylon 66 filament

Featuring exceptional strength, heat resistance, and durability, Leona™ is used for air bags and tire cord, with demand continuing to grow.



S-SBR for fuel-efficient tires

Asahi Kasei's S-SBR enables improved fuel efficiency without compromising braking performance. It is produced in Japan and Singapore.



Performance resins

Performance plastics including polyamide 66, polyacetal, modified PPE, ABS, and SAN are widely used in various automotive and home electronics applications.



Saran Wrap™ cling film

Featuring superior cling, barrier performance, and heat resistance, this has been Japan's leading food wrapping film for more than 50 years.



Specialty Solutions

Operating company | Asahi Kasei

A wide variety of high value-added products includes Li-ion battery separators, electronic and functional materials, chlor-alkali electrolysis systems featuring high energy efficiency, additives for pharmaceuticals and foods, coating materials for vehicles and electronics, and industrial explosives and explosion-bonded metal clads.

Major products

■ Duranate™ HDI-based polyisocyanate, ion-exchange membranes, water-filtration membranes, Ceolus™ MCC, Sunfort™ dry film, APR™ and AFP™ photopolymers, Baclad™ explosion-bonded metal composites, AR Chemical Setter™ bonded anchors
■ Hipore™ and Celgard™ Li-ion battery separator, Daramic™ lead-acid battery separator



Sunfort™ photosensitive dry film

Used for advanced, high-end applications in the fields of printed wiring boards and semiconductor packages.



Ion-exchange membrane systems

Our energy-conserving, eco-friendly membranes and systems for chlor-alkali electrolysis provide a total solution, earning the world's leading market share.



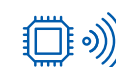
Hipore™ and Celgard™ Li-ion battery separator

These separator membranes act as an insulator in lithium-ion batteries, with use expanding in automotive applications in addition to consumer products such as mobile electronics.



Daramic™ lead-acid battery separator

The growing fleet of more than 1 billion vehicles that utilize lead-acid batteries will need to be replaced.



Electronics

Operating company | Asahi Kasei Microdevices

Our highly functional electronic devices include LSIs with unique mixed-signal technology, and various sensors such as magnetic sensors and infrared sensors utilizing original compound semiconductor technology.

Major products

■ **Semiconductors:** Audio/voice LSIs, industrial/machinery LSIs, automotive LSIs, electronic compasses, high-frequency LSIs, power management LSIs
■ **Magnetic sensors:** Hall elements, Hall ICs, electronic current sensors, rotation angle sensors, infrared sensor



LSIs for audio & voice

With a track record of over 30 years in the audio market, we continue to pursue a wide range of technologies related to sound, and provide LSIs for various applications including automobiles and smartphones.



Electronic compass

We have the world's leading market share for electronic compasses, which are used for electronic map applications on smartphones such as pedestrian navigation systems.

Homes

Centered on Hebel Haus™ unit homes and Hebel™ AAC panels, we enable a safe, healthy, and comfortable life with technologies and services that are friendly to people and the environment.



Health Care

We contribute to progress in medical therapy by advancing specialized leading-edge technology in new combinations and addressing unmet medical needs, enabling patients to enjoy a better quality of life.



Homes

Operating
company

Asahi Kasei Homes

Various products and services for living and residency are focused on “long life.” To enable residency to span across different generations, peripheral businesses including remodeling, real estate, and urban redevelopment offer a full range of services to help maintain home asset value over the long term, yielding a truly rich living environment.

Major products

- **Order-built homes (unit homes and apartment buildings):** Hebel Haus™ unit homes, Hebel Maison™ apartments, Hebel Village™ rental homes for seniors, Hebel Builds™ medium-rise buildings
- **Real estate-related operations:** Atlas™ condominiums, Hebel Maison™ apartment finder, brokerage of used Hebel Haus™ homes
- **Remodeling:** Maintenance and remodeling of Hebel Haus™ homes



Hebel Haus™

Our unit homes feature exceptional disaster resistance, livability, and adaptability to enable residents to continue to live with security and comfort.

Hebel Maison™

Built with high-performance materials and components, featuring innovative and high-function designs, and backed by long-term services, our apartment buildings enable superior asset-value retention over the long term.

Atlas™ condominiums

These high-grade condominiums in good locations enable residents to enjoy an urban lifestyle with peace and confidence.

Hebel Maison™ apartment finder

We provide information on Hebel Maison™ rental apartments featuring exceptional earthquake resistance, fire resistance, and heat insulation.

Hebel™ panels

Featuring outstanding flame resistance, thermal insulation, durability, and ease of installation, these panels are especially suited to the climate and construction circumstances of Japan.

Neoma Foam™ phenolic foam insulation panels

With world-leading insulation performance, these panels contribute to the advance of energy-conserving homes.

Eazet™ screw-tip piles

This piling system enables installation in confined spaces while generating little noise or vibration and no soil for disposal.

BasePack™ column base attachment system

This column base attachment system features exceptional earthquake resistance, contributing to the safety and security of steel-frame buildings.



Pharmaceuticals

Operating
company

Asahi Kasei Pharma

Our pharmaceuticals business is positioned as a specialized, R&D-centered operation, with the development of new world-class drugs being advanced to offer innovative and unique therapeutic solutions in the fields of orthopedics, critical/intensive care, urology, the immune system, and the central nervous system.



Medical Care

Operating
company

Asahi Kasei Medical

Our medical care business contributes to the advancement of medical treatment worldwide via continuous innovation in various fields, including medical device systems that respond to unmet needs (such as chronic and acute renal disease, neurologic diseases and other intractable conditions), filters that improve the quality of blood transfusion products, and products that enable safe and efficient production of biotherapeutics and other medicines at the cutting edge of new drug development.



Acute Critical Care

Operating
company

ZOLL Medical

Our acute critical care business is based on world-leading resuscitation technology. Through our ZOLL family of products, we offer a comprehensive product portfolio that includes professional defibrillators and automated external defibrillators (AEDs), as well as a wearable defibrillator, portable ventilators, a highly efficient intravascular system for managing the core temperature of critically ill patients, and data management systems for care providers. We continue to expand operations in the field of acute critical care to enable better outcomes for patients around the world.

Major products

- **Prescription drugs:** Teribone™, Reclast™, Elcitonin™, Recomodulin™, Flivas™, Bredinin™, Kevzara™
- **Diagnostic reagents:** Lucica™ GA-L glycated albumin assay kit, Ribotest™ Mycoplasma and Ribotest™ Legionella infectious disease rapid test kits



Teribone™ osteoporosis drug

Human parathyroid hormone preparation that facilitates bone formation.



Recomodulin™ anticoagulant

The world's first thrombomodulin agent produced through genetic engineering, it is used to treat disseminated intravascular coagulation.

Major products

- **Hemodialysis:** Hollow-fiber dialyzers and hemodiafilters
- **Therapeutic apheresis:** Plasmapheresis devices, cell-free and concentrated ascites reinfusion therapy devices
- **Bioprocess products:** Planova™ virus removal filters
- **Transfusion products:** Sepacell™ leukocyte reduction filters



Artificial kidneys

Artificial kidneys (dialyzers and hemodiafilters) for hemodialysis are born of Asahi Kasei's core technology of hollow-fiber membrane separation.



Planova™ virus removal filters

The world's first filters developed specifically for removing viruses during the manufacture of biotherapeutics such as biopharmaceuticals and plasma derivatives.

Major products

- **Defibrillators:** R Series™, X Series™, and other defibrillators, AED Plus™ and AED Pro™ automated external defibrillators
- **Wearable defibrillator:** LifeVest™
- **Automated CPR:** AutoPulse™
- **Temperature management system:** Thermogard XP™
- **Data solutions:** RescueNet™ software
- **Ventilators:** Z Vent™



AED Plus™

Featuring real-time audio and visual feedback for appropriate chest compressions.



LifeVest™

Provides immediate protection for patients at risk of sudden cardiac arrest.



Construction Materials

Operating
company

Asahi Kasei Construction Materials

Our construction materials business includes solution-oriented products and related services such as Hebel™ autoclaved aerated concrete (AAC) panels, Neoma Foam™ phenolic foam insulation panels, foundation systems, and steel-frame structural components that meet emerging needs. We continuously strive for improvements and innovations to create new value for the future of high-quality space.

Major products

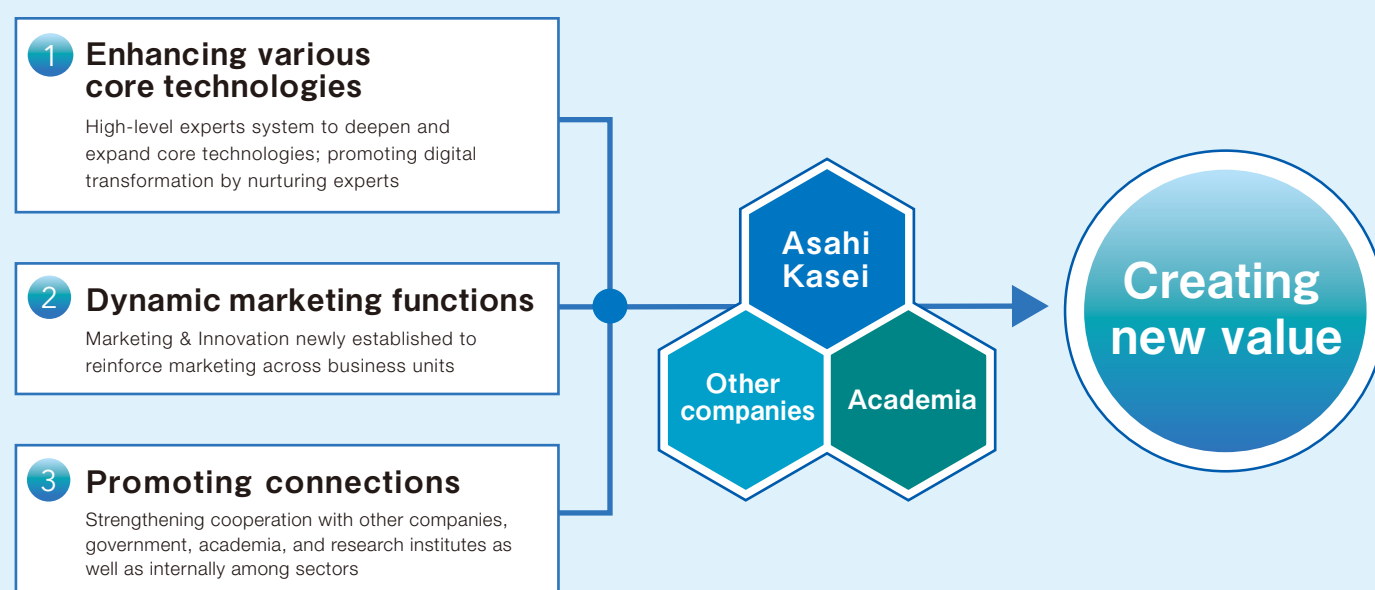
- **Autoclaved aerated concrete (AAC):** Hebel™, Hebel Lite™, Hebel Powerboard™
- **Thermal insulation:** Neoma Foam™ and Neoma Zeus™ phenolic foam insulation panels, floor insulation panels for wood-frame houses
- **Foundation systems:** Eazet™ screw-tip steel shaft piling systems, ATT Column™ high-friction piling systems with minimal soil disposal
- **Structural systems and components:** BasePack™ column base attachment system

Fostering innovation through diversity

Depending on the degree of novelty and the market growth potential, R&D in the Asahi Kasei Group is divided into medium- to long-term corporate R&D to create new businesses that span across different fields and R&D to enhance established businesses. To leverage the diversity of our operating configuration, external resources such as corporate venture capital (CVC) are proactively utilized for strategic investment in startups by core operating companies in the creation of new businesses.

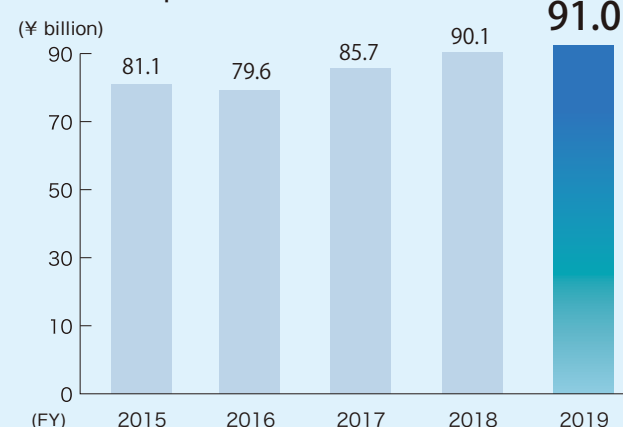
01 Basic concept for creating new businesses

Various core technologies & Marketing functions & Connections

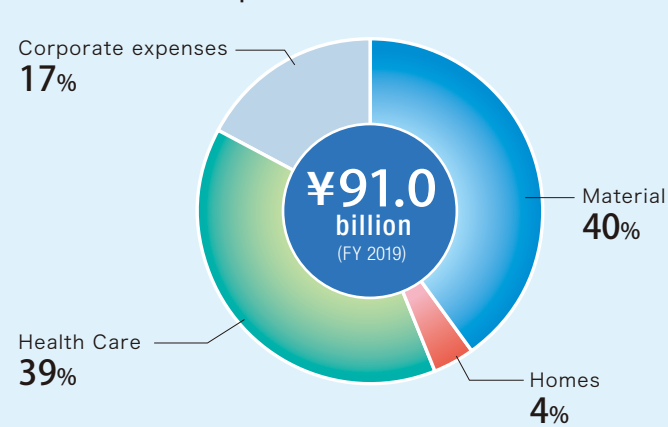


02 R&D expenditure

Annual R&D expenses



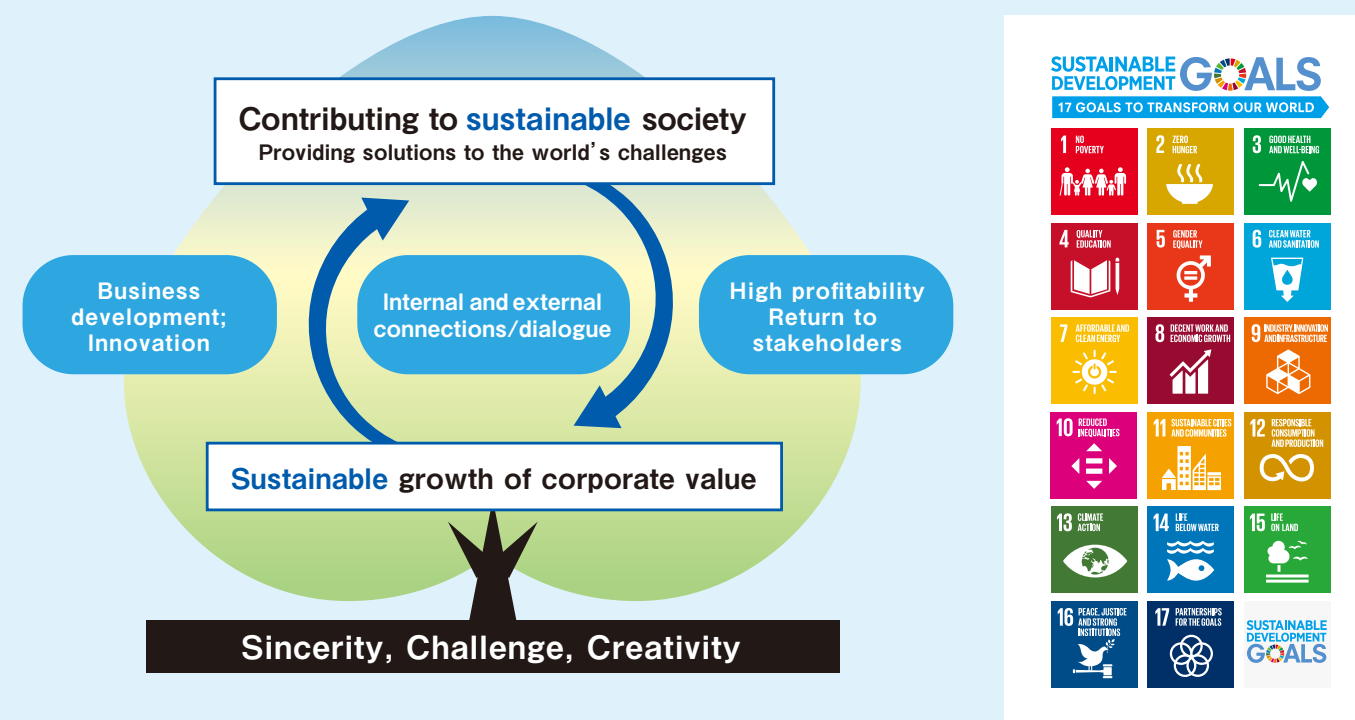
Breakdown of R&D expenses



Contributing to life and living for people around the world

Sustainability for Asahi Kasei

Issues for the achievement of sustainable society are being discussed around the world. The Asahi Kasei Group launched “Cs+ for Tomorrow 2021” as a new strategic management initiative for the three-year period beginning with fiscal 2019, expressing our stance as “Care for People, Care for Earth” as we continuously contribute to the sustainable development of mankind and the earth. Asahi Kasei is focusing on two mutually reinforcing aspects of sustainability, “contributing to sustainable society” and “sustainable growth of corporate value,” as signified by the United Nations Sustainable Development Goals (SDGs).



Community fellowship



Raising interest in science among women

We held an event in support of a government program to raise interest in careers in science and engineering among young women.



Tree-planting and reforestation activities

In cooperation with local communities in Japan's Miyazaki and Shizuoka prefectures, we are working to preserve biodiversity through tree-planting and reforestation projects.



Corporate sports activities

Our judo team and distance running team have produced many Olympic athletes. The teams also actively participate in various community fellowship activities.

Asahi Kasei Worldwide

The Asahi Kasei Group operating bases are located at strategic sites around the world, to facilitate the efficient supply of products and services in each of the major markets.

● Material ● Homes ● Health Care ● Administrative & Other

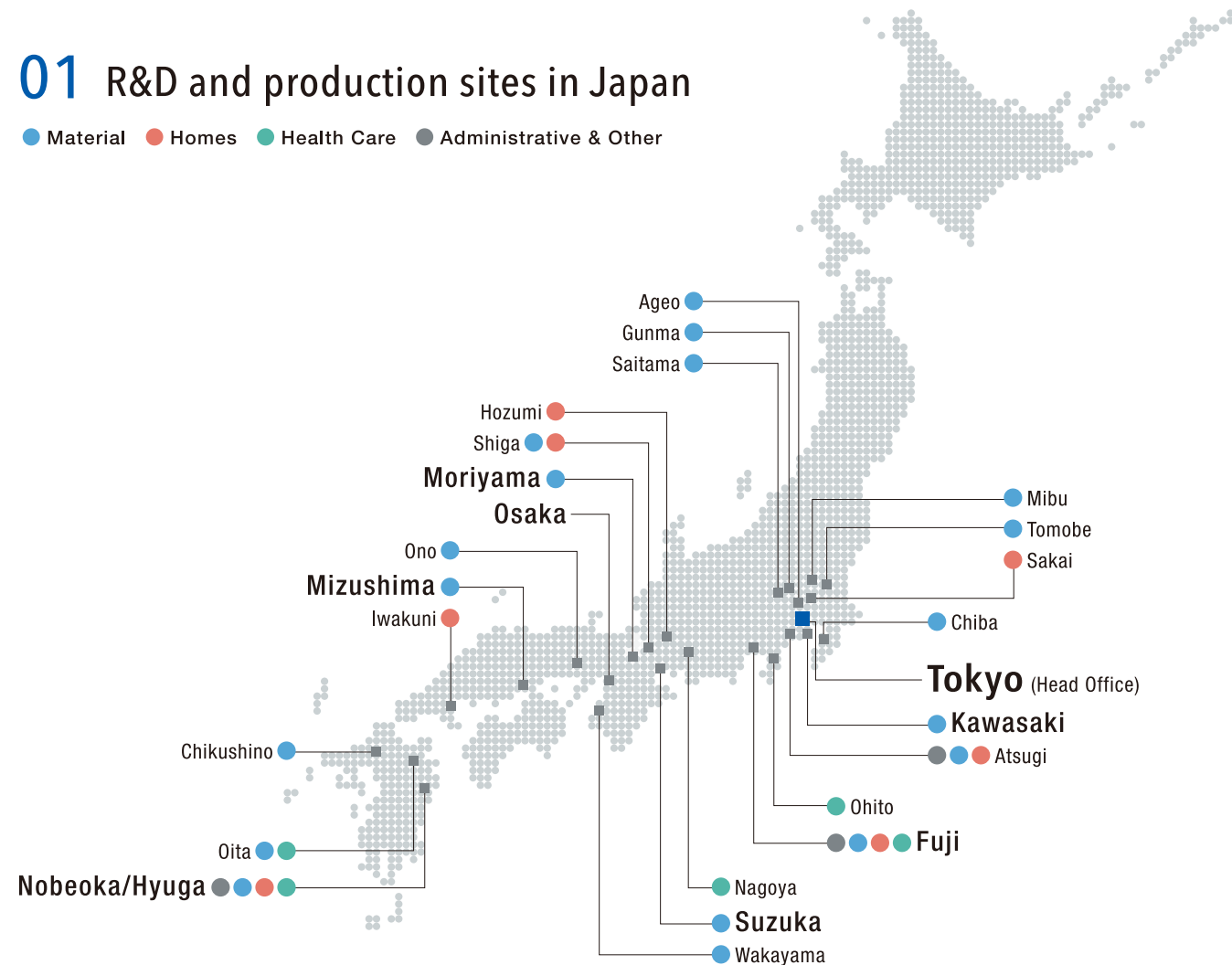


New value is created at various locations in Japan

We are advancing the development of our business together with local communities in many locations throughout Japan, including Nobeoka, the birthplace of our operations, Fuji, our core base for R&D, and Mizushima, the center of our petrochemical operations.

01 R&D and production sites in Japan

● Material ● Homes ● Health Care ● Administrative & Other



02 Main subsidiaries and affiliates in Japan

- Asahi Kasei Advance Corp.
- Asahi Kasei Amidas Co., Ltd.
- Asahi Kasei Engineering Corp.
- Asahi Research Center Co., Ltd.
- Asahi Kasei Color Tech Co., Ltd.
- Asahi Kasei Microdevices Corp.
- Asahi Kasei Electronics Co., Ltd.
- Asahi Kasei Epoxy Co., Ltd.
- Asahi Kasei Finechem Co., Ltd.
- Asahi Kasei Home Products Corp.
- Asahi Kasei Metals Ltd.
- Asahi Kasei Microsystems Co., Ltd.
- Asahi Kasei Mitsubishi Chemical Ethylene Corp.
- Asahi Kasei Pax Corp.
- Asahi Kasei Technoplus Co., Ltd.
- Asahi-Schwebel Co., Ltd.
- Asahi SKB Co., Ltd.
- DuPont-Asahi Flash Spun Products Co., Ltd.
- Japan Elastomer Co., Ltd.
- PS Japan Corp.
- Sundic Inc.
- Wacker Asahikasei Silicone Co., Ltd.
- Polypore K.K.
- Sage – Japan
- Asahi Kasei Homes Corp.
- Asahi Kasei Construction Materials Corp.
- Asahi Kasei Foundation Systems Corp.
- Asahi Kasei Home Construction Corp.
- Asahi Kasei Jyuko Co., Ltd.
- Asahi Kasei Homes Financial Corp.
- Asahi Kasei Realty & Residence Corp.
- Asahi Kasei Reform Co., Ltd.
- AJEX Corp.
- Asahi Kasei Lifeline Corp.
- Asahi Kasei Pharma Corp.
- Asahi Kasei Medical Co., Ltd.
- Asahi Kasei ZOLL Medical Corp.
- Med-Tech Inc.

Corporate Profile As of March 31, 2020

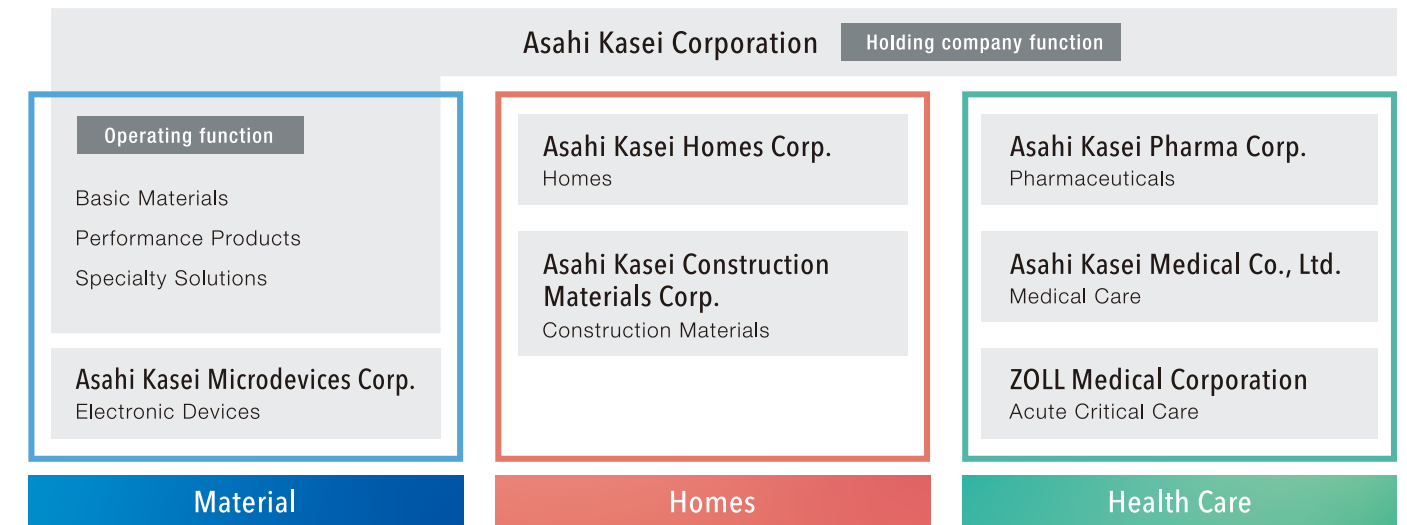
Company name	Asahi Kasei Corporation
Founding	May 25, 1922
Establishment	May 21, 1931
Paid-in capital	¥103,389 million
Outstanding shares	1,393,932,032
Total assets	¥2,797,975 million
Fiscal year end	March 31
Employees	40,689

Directors As of January 13, 2021

President & Representative Director, Presidential Executive Officer	Hideki Kobori	Outside Director	Masumi Shiraiishi
Representative Director, Vice-Presidential Executive Officer	Shigeki Takayama	Outside Director	Tsuneyoshi Tatsuoka
Director, Vice-Presidential Executive Officer	Yutaka Shibata	Outside Director	Tsuyoshi Okamoto
Director, Vice-Presidential Executive Officer	Hiroshi Yoshida	Corporate Auditor	Yuji Kobayashi
Director, Primary Executive Officer	Shuichi Sakamoto	Corporate Auditor	Masafumi Nakao
Director, Primary Executive Officer	Fumitoshi Kawabata	Outside Corporate Auditor	Akio Makabe
		Outside Corporate Auditor	Tetsuo Ito

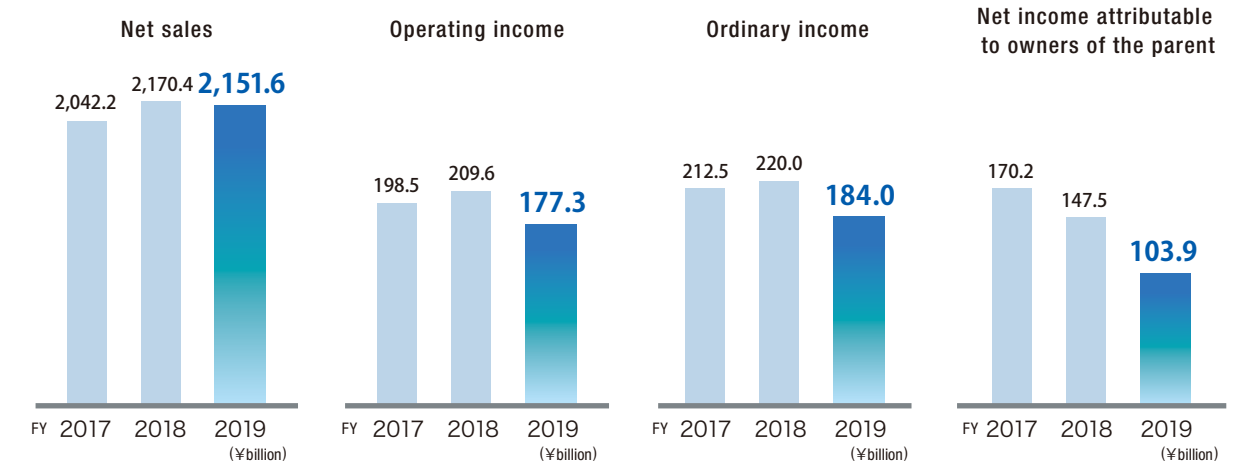
Corporate configuration

Centered on the operating holding company Asahi Kasei Corp. and six core operating companies, the Asahi Kasei Group does business in the three sectors of Material, Homes, and Health Care.

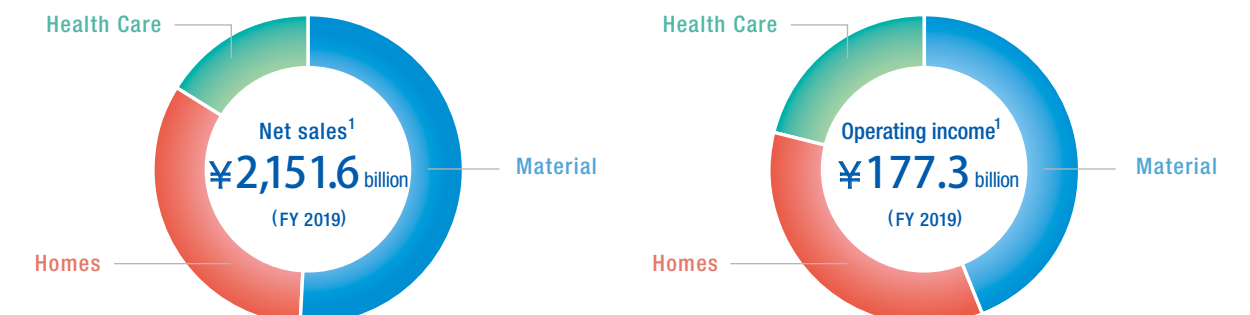


Financial highlights

Fiscal year beginning April 1



Results by sector



¹ Excluding "Others" category and "corporate expenses and eliminations."