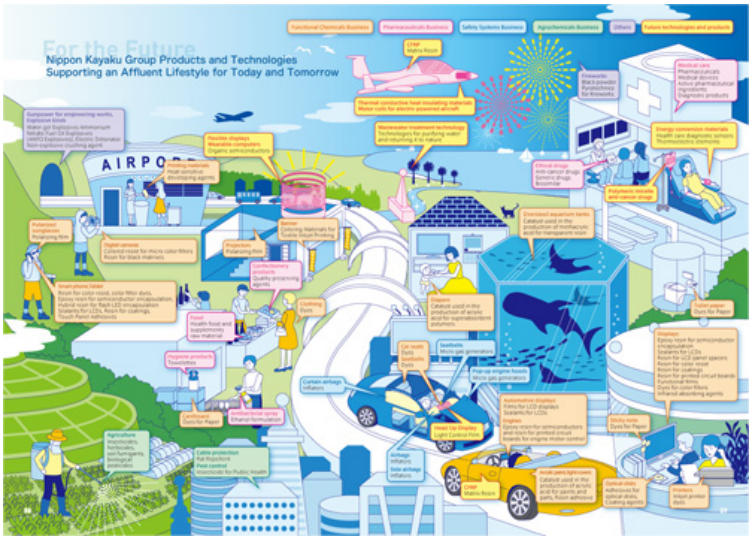
CSR Activities Fulfilling Economic Responsibilities

Current Nippon Kayaku Group Products and Future Technologies and Products Supporting an Affluent Lifestyle

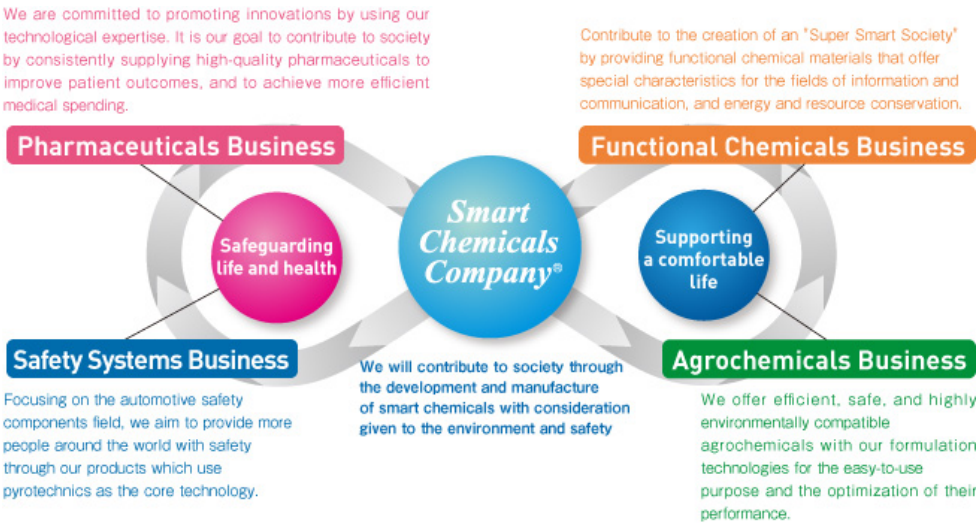
The Nippon Kayaku Group has adopted a corporate slogan called Global "sukima" ideas and is striving to develop Nippon Kayaku into a company that the world truly needs, by developing high value added products with unique technologies that stand out in niche markets and elsewhere.



View larger image

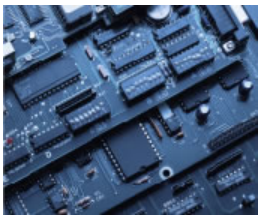
The Nippon Kayaku Group's Businesses

This section will take a closer look at the 4 core businesses of the Nippon Kayaku Group as well as products that they developed with unique technologies that contribute to the betterment of society.



Functional Chemicals Business

We will contribute to society by supplying unique functional chemicals for the IT, ICT and resource conservation fields



The super smart society of tomorrow is expected to be one in which the goods and services we need will be supplied only in the necessary amount, resulting in more lively and comfortable lifestyles. In the field of ICT, the network connecting personal digital devices with home electronics and automobiles is growing, while rapid advancements are also being made in reducing the size and increasing the performance of semiconductor devices and improving the resolution of displays mounted on these digital devices. At the same time, there is growing demand for energy conservation and resource conservation. The Functional Chemicals Business is helping to realize this super smart society by supplying unique products to the fields of IT, ICT, energy conservation and resource conservation using its long-standing technologies in resins, pigments, and catalysts.

Functional Chemicals Business

Pharmaceuticals Business

We are committed to prompting innovations by using our technological expertise. It is our goal to contribute to society by consistently supplying high-quality pharmaceuticals to improve patient outcomes, and to achieve more efficient medical spending.

MINK Web – an informative site targeting medical professionals developed by Nippon Kayaku

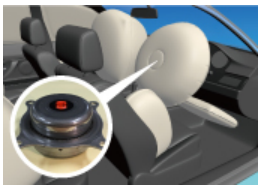
The Pharmaceuticals Business engages in research and development specializing in anti-cancer drugs and peripheral fields, focusing on polymeric micelle anti-cancer drugs that utilize nanotechnology as well as biosimilars and generic pharmaceuticals. Currently, we are participating in a Multi-national Phase3 Clinical Study of a monoclonal antibody biosimilar candidate for breast cancer as part of our efforts aimed at obtaining marketing approval for the next biosimilar following the success of FILGRASTIM BS and INFLIXIMAB BS.

We aim to contribute to society with innovations that are backed by our technological expertise and by consistently supplying high-quality pharmaceuticals to improve the level of treatments patients receive, and to achieve more efficient medical spending.

Pharmaceuticals Business

Safety Systems Business

With explosives safety technologies as our core competencies, we will contribute to society by making people safer around the world through our automotive safety components



Automobile production is forecast to grow by a sizeable margin in Southeast Asia and other emerging countries following a similar trend in China. Also, the average safety device content per vehicle is expected to rise dramatically going forward. The Safety Systems Business manufactures and markets automotive safety components based on many years of research using Nippon Kayaku's core competence of explosives technology. Furthermore, various departments are involved in the processes leading up to product launch starting with development. This allows us to simultaneously push forward with development, manufacturing and marketing, resulting in products being brought to market in a much

quicker time frame. Looking forward, we will strengthen the collaboration with our overseas sites to enhance product value globally and contribute to society.

Safety Systems Business

Agrochemicals Business

We will contribute to society by supplying safe agrochemical preparations technology that are compatible with the environment and indispensable to stable food production

In February 2016, the Agrochemicals Group launched a spiracle-blocking insecticide Fuhmon®, ideal for Integrated Pest Management (IPM) limiting the reliance on chemical pesticides. This product offers four unique features: (1) it is made from polyglyceryl fatty acid ester which is used as food additive; (2) it can be applied unlimited multiple times and even up to a day before crop harvest; (3) it is possible to simultaneously exterminate mites, aphids, whiteflies, and powdery mildew; (4) it is effective against insects that have become resistant to conventional chemical pesticides. It has earned a solid reputation and is now widely used for produce vegetables such as strawberries and tomatoes.
Going forward, we will continue to contribute to agriculture by researching, developing and supplying technologies and materials closely in tune with customer needs.

Agrochemicals Business

Research and Development

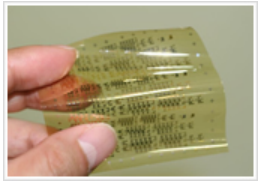
Researching the Needs of Tomorrow: R&D for Organic Semiconductor Materials

The Research and Development Group will contribute to society, safeguard the life and health of the public, and support a comfortable life by executing R&D investments to consistently deliver the best products.

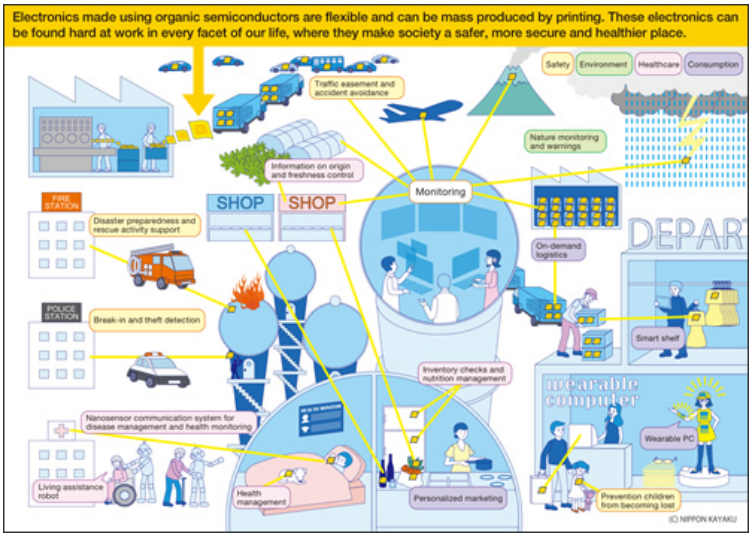
Additionally, the Research and Development Group is implementing R&D strategy with a medium- to long-term perspective to create new products and new business through open innovation inside and outside the company and by combining the intellectual properties and technologies of the Nippon Kayaku Group. The Kita-ku, Tokyo is one of the Nippon Kayaku Group's largest R&D hubs and considered a critical area for R&D and new business creation. We will concentrate resources here including researchers from each business field and facilities to achieve collaboration and integration of technologies and people.

Learn more about our research laboratories

Inorganic semiconductor



Organic semiconductor



View larger image

Globalization of Research Activities

Following the policy of Nippon Kayaku's global management, the Research and Development Group is in the process of building a global R&D structure inclusive of overseas Group companies. While promoting greater interaction among researchers working for overseas subsidiaries, the Research and Development Group is carrying out the following activities from the perspective of CSR.

Hosting International Internship Students

Nippon Kayaku hosts interns from both domestic and overseas universities. Interns engage in various activities at Nippon Kayaku's laboratories with a focus on research and development, while also learning about corporate activities and Japanese culture. At the same time our employees receive a boost in terms of motivation and stimulation by working together with these young interns. Going forward, through these internships, we will continue to globalize our corporate culture and contribute to international exchange as well as the education of overseas students.

Joint Collaboration with Overseas Research Institutes

Nippon Kayaku actively engages in joint research with research institutes located outside of Japan.

We utilize web conferencing during joint research with overseas group companies to share information in a timely manner and speed up the R&D process. Also, we are among the first to adopt cutting edge technologies and materials, while utilizing industry-academia collaboration programs with overseas universities, to ensure that we can help create a sustainable society.

The collaboration and integration of our long-standing excellent technologies help promote problem solving and the creation of innovation.

Functional Chemicals Business | Pharmaceuticals Business | Safety Systems Business | Agrochemicals Business | Others | Future technologies and products

For the Future

Nippon Kayaku Group Products and Technologies Supporting an Affluent Lifestyle for Today and Tomorrow

CFRP
Matrix Resin

Thermal conductive heat insulating materials
Motor coils for electric-powered aircraft

Fireworks
Black powder
Pyrotechnics for fireworks

Medical care
Pharmaceuticals
Medical devices
Active pharmaceutical ingredients
Diagnostic products

Gunpower for engineering works, Explosive kinds
Water gel Explosives Ammonium Nitrate Fuel Oil Explosives (ANFO Explosives), Electric Detonator
Non-explosive crushing agent

Flexible displays
Wearable computers
Organic semiconductors

Wastewater treatment technology
Technologies for purifying water and returning it to nature

Energy conversion materials
Health care diagnostic sensors
Thermoelectric elements

Printing materials
Heat-sensitive developing agents

Ethical drugs
Anti-cancer drugs
Generic drugs
Biosimilar

Polymeric micelle anti-cancer drugs

Polarized sunglasses
Polarizing film

Digital cameras
Colored resist for micro color filters
Resin for black matrixes

Banner
Coloring Materials for Textile Inkjet Printing

Projectors
Polarizing film

Oversized aquarium tanks
Catalyst used in the production of methacrylic acid for transparent resin

Confectionery products
Quality preserving agents

Smart phone,Tablet
Resin for color resist, color filter dyes,
Epoxy resin for semiconductor encapsulation,
Hybrid resin for flash LED encapsulation
Sealants for LCDs, Resin for coatings,
Touch Panel Adhesives

Clothing
Dyes

Diapers
Catalyst used in the production of acrylic acid for superabsorbent polymers

Food
Health food and supplements raw material

Toilet paper
Dyes for Paper

Car seats
Dyes
Seatbelts
Dyes

Seatbelts
Micro gas generators

Hygiene products
Towelettes

Pop-up engine hoods
Micro gas generators

Curtain airbags
Inflators

Displays
Epoxy resin for semiconductor encapsulation
Sealants for LCDs
Resin for LCD panel spacers
Resin for color resist
Resin for coatings
Resin for printed circuit boards
Functional films
Dyes for color filters
Infrared absorbing agents

Automotive displays
Films for LCD displays
Sealants for LCDs
Engines
Epoxy resin for semiconductors and resin for printed circuit boards for engine motor control

Cardboard
Dyes for Paper

Antibacterial spray
Ethanol formulation

Head Up Display
Light Control Film

Sticky note
Dyes for Paper

Agriculture
Insecticides, herbicides, soil fumigants, biological pesticides

Cable protection
Rat Repellent
Pest control
Insecticide for Public Health

Airbags
Inflators
Side airbags
Inflators

Acrylic paint, light covers
Catalyst used in the production of acrylic acid for paints and parts, Resin adhesive

CFRP
Matrix Resin

Optical disks
Adhesives for optical disks, Coating agents

Printers
Inkjet printer dyes

Electronics made using organic semiconductors are flexible and can be mass produced by printing. These electronics can be found hard at work in every facet of our life, where they make society a safer, more secure and healthier place.

Safety
Environment
Healthcare
Consumption

Traffic easement and accident avoidance

Information on origin and freshness control

Nature monitoring and warnings

Monitoring

FIRE STATION

Disaster preparedness and rescue activity support

SHOP
SHOP

On-demand logistics

POLICE STATION

Break-in and theft detection

Smart shelf

Inventory checks and nutrition management

wearable computer

HEALTH MONITOR

Nanosensor communication system for disease management and health monitoring

Wearable PC

Living assistance robot

Health management

Personalized marketing

Prevention children from becoming lost