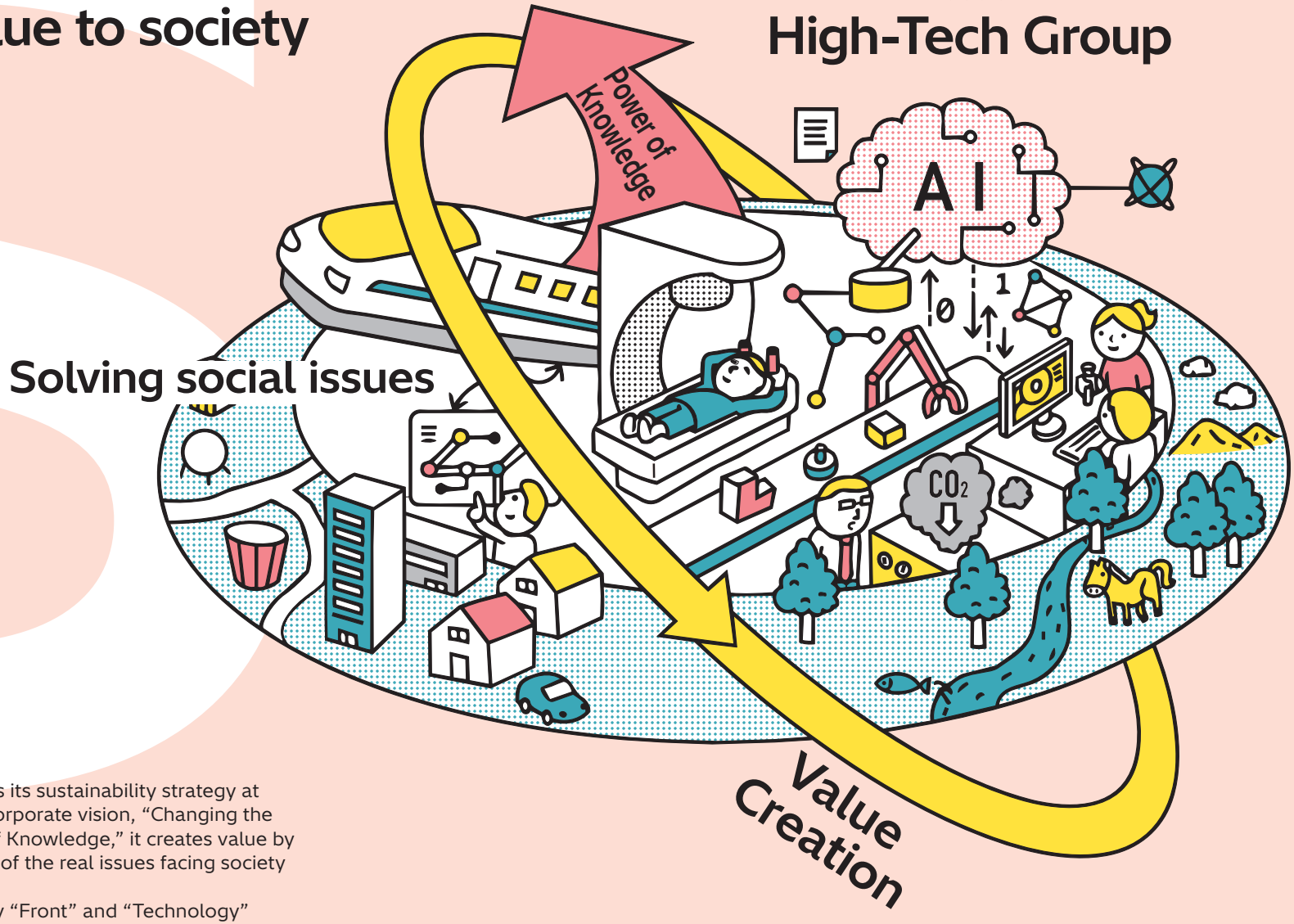
Sustainability for all

Delivering value to society



The Hitachi High-Tech Group places its sustainability strategy at the core of its business. Under its corporate vision, “Changing the World and Future with the Power of Knowledge,” it creates value by starting with a deep understanding of the real issues facing society and its customers.
Through strong products created by “Front” and “Technology” and the effective use of data, we will contribute to realizing a Harmonized Society in which the environment, people’s happiness, and economic growth are in harmony.

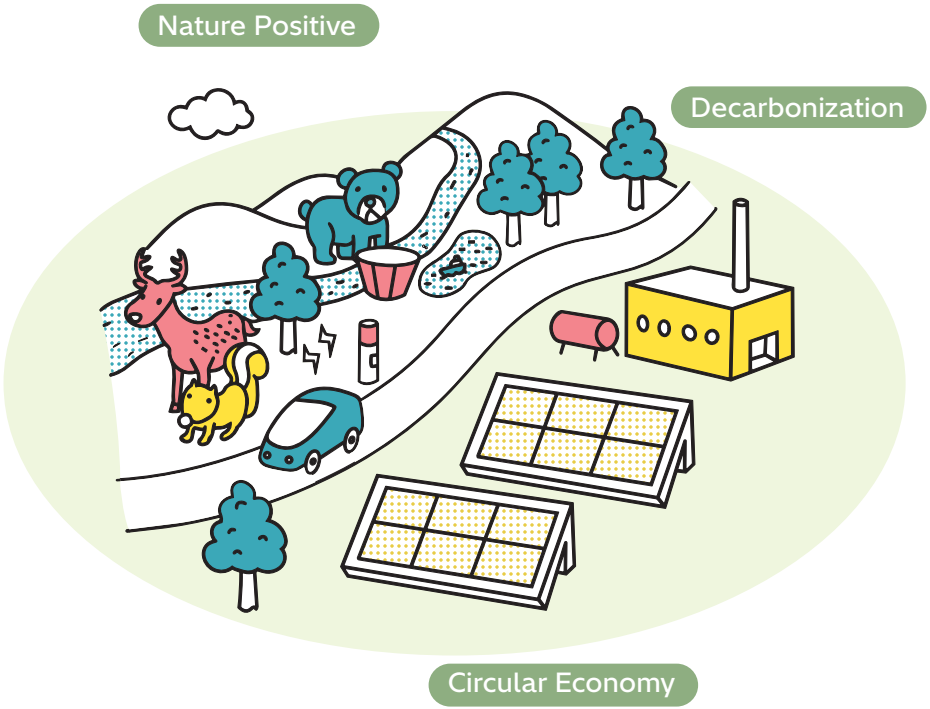
Realization of a Harmonized Society

Bringing Positive Change to Society through the Power of Knowledge

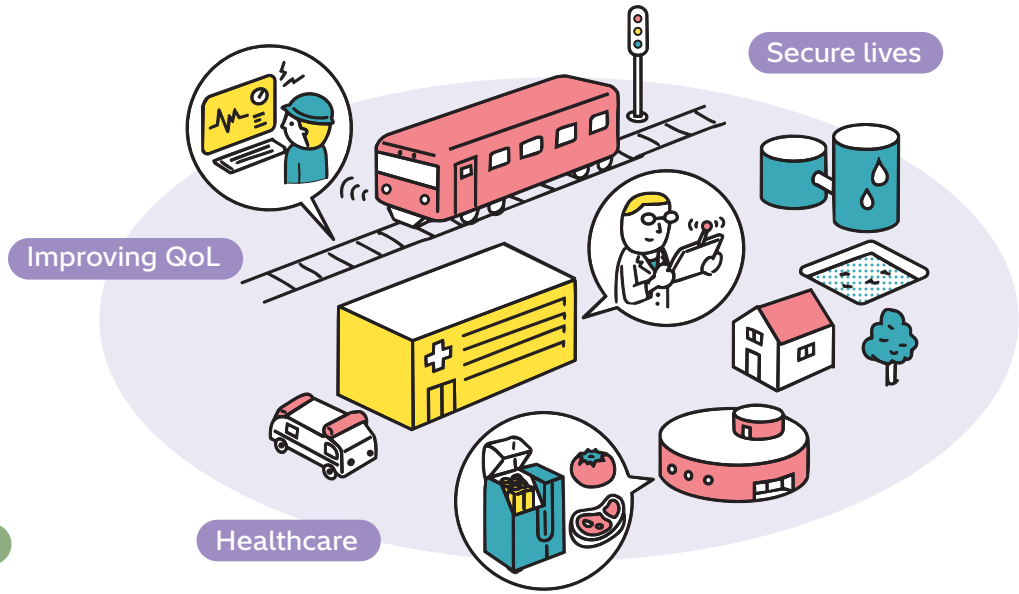
— Hitachi High-Tech's social impact —

Under PLEDGES, the Hitachi Group's sustainability strategy, we have designated important management issues as "Sustainability Focus Areas" and are translating them into concrete initiatives through our businesses. Among these, we will contribute to solving social issues through our business activities in three areas related to delivering value to society: "a sustainable global environment," "healthy, safe, secure lives," and "the sustained development of science and industry."

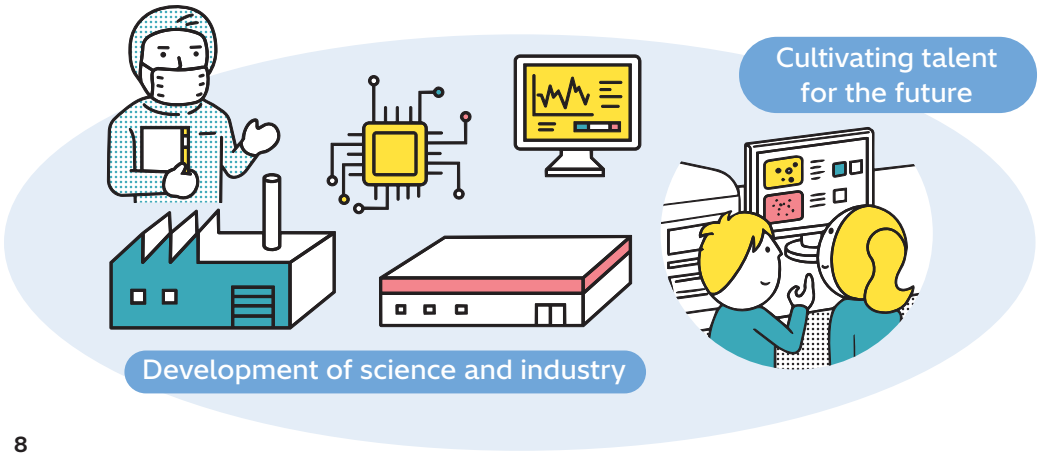
❶ Contributing to a Sustainable Global Environment



❷ Contributing to Healthy, Safe, Secure Lives



❸ Contributing to the Sustained Development of Science and Industry



“Digitalized Assets” solving social issues with technology-driven “Power of Knowledge”

Toward a society where frontline workers can make new discoveries and create value

HMAX™ Industry is a suite of next-generation AI solutions for buildings, factories, and other settings. By enhancing safety, productivity, quality, and environmental sustainability, it helps transform frontline workplaces and improve people’s well-being.

At manufacturing and industrial sites, we combine data from our Group's products, devices, equipment, and other assets with the domain knowledge we have built over many years, our customers' expertise, and AI technologies. This helps people on site make the best possible decisions quickly, accelerate research and development, improve productivity, and keep equipment running reliably. We will use the value created by combining data, domain knowledge, and AI to drive innovation in frontline operations through HMAX Industry.

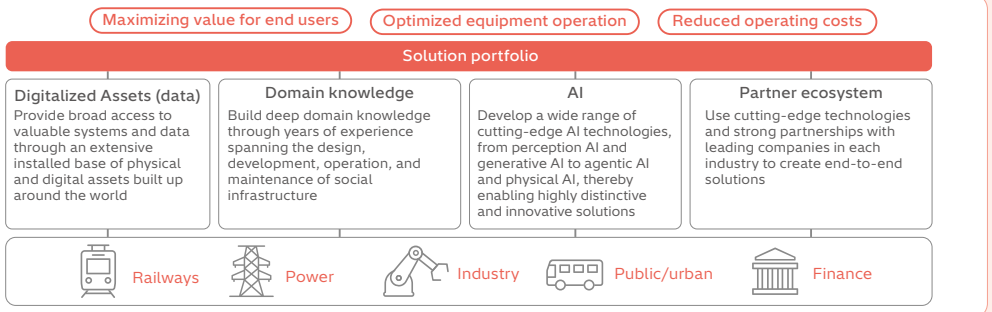
HMAX™ by Hitachi: A suite of next-generation AI solutions

HMAX draws on data from both physical and digital assets and enhances advanced AI with the depth of domain knowledge unique to Hitachi. This enables it to tackle complex social infrastructure challenges and deliver the best possible outcomes and value for customers and society.

What is HMAX Industry?

One of HMAX’s domain-specific solution suites, designed for industrial settings such as buildings and factories

Components of HMAX

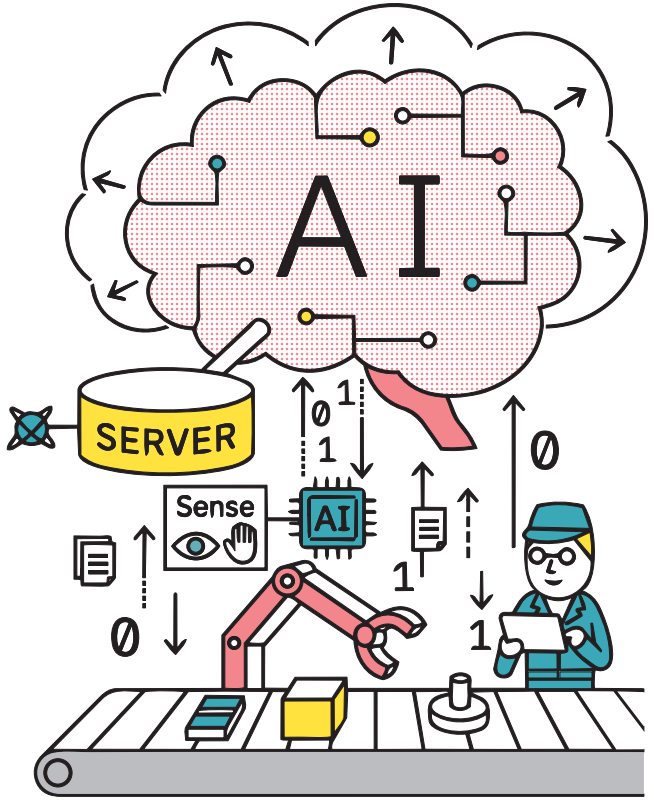


Developing an edge AI semiconductor as a foundational physical AI technology supporting HMAX Industry

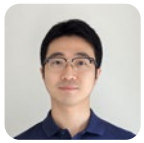
What is physical AI?

Technology that uses cameras and sensors installed on machinery to understand surrounding conditions, enables AI to make real-time decisions, and controls actual machines and robots

Hitachi and Hitachi High-Tech have developed an edge AI semiconductor that can be installed in industrial equipment and other devices as a foundational physical AI technology supporting HMAX Industry. With more than 10 times the power efficiency of conventional products, it analyzes on-site data such as images and vibration in real time within the equipment, thereby enabling advanced processing without a dedicated server and contributing to stable quality and improved yield and productivity.



My PLEDGES



Mr. Chen
Business Strategy Planning Div.

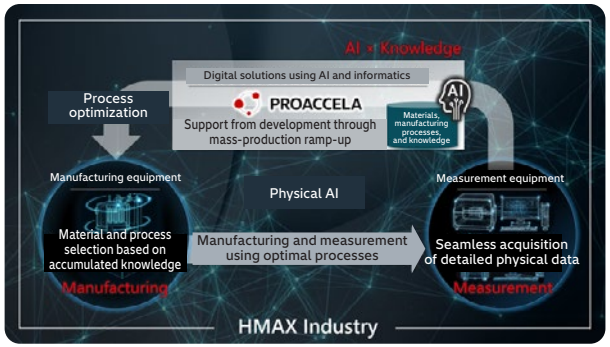
Connecting the value of advanced measurement to contribute to science and industry

Through the “Power of Knowledge” of our electron microscopes, we support our customers’ technology development and help them improve production yields. By translating insights into markets, customers, and competitors into product and technology strategy, we will further accelerate technological innovation in semiconductors and advanced materials, contributing to a more prosperous way of life and a sustainable society.

HMAX Industry use case

POWREX Corporation

Using Physical AI to Optimize the Coating Process for All-Solid-State Batteries



All-solid-state batteries use solid electrolytes instead of liquid electrolytes and are expected to offer high safety and high energy density. In the manufacturing process, optimizing the coating process for cathode active material[*1] requires advanced expertise and experience, and reliance on individual expertise when identifying conditions has been a major challenge. To address this challenge, Hitachi High-Tech began collaborating with POWREX.

The initiative uses physical AI that combines the coating technology, domain knowledge, and extensive operational data accumulated over many years by POWREX, a leading company in powder processing technology, with Hitachi High-Tech's analytical technologies, AI, and informatics technology. We worked to optimize coating conditions for cathode active materials. By developing a method for quantitatively evaluating coating conditions and exploring conditions through process informatics[*2], we efficiently identified high-quality, highly reproducible coating conditions. We aim to offer the results of this demonstration as part of the HMAX Industry lineup, helping shorten the development and mass-production ramp-up periods for all-solid-state batteries in Lab to Fab[*3] and contributing to a stable supply of high-quality all-solid-state batteries.

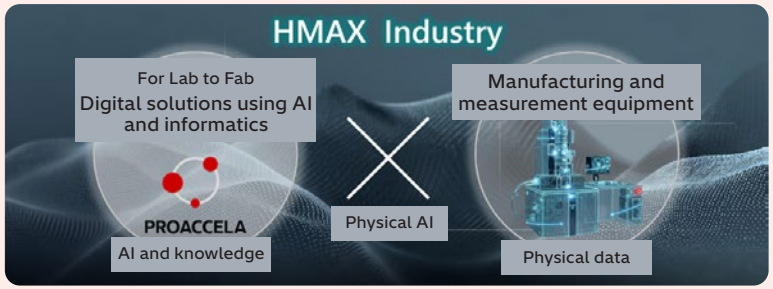
Going forward, we will promote the commercialization of optimal coating process proposals through HMAX Industry. Beyond the battery field, we will also explore expansion into areas such as high-performance materials, pharmaceuticals, and chemicals, thereby contributing to realizing high-value-added manufacturing that uses data and AI.

*1 A material that accepts electrons in the battery reaction; metal oxides containing lithium ions are primarily used
*2 A technology that integratively analyzes conditions, measurement data, and other information from manufacturing and experimental processes and uses data-driven methods to predict performance and identify optimal manufacturing process conditions
*3 A business model that provides integrated support from R&D through mass production, creating value such as shortening the time from development to market launch (Time to Market)

Expected benefits of the verification

- Reduced prototyping and verification workload
- More efficient and advanced evaluation of coating conditions
- Consistent achievement of high-quality coating
- Shorter development and mass-production ramp-up periods
- Stable quality and improved productivity

Integrated support from R&D through mass-production design Renewing the materials development DX solution brand as "PROACCELA"

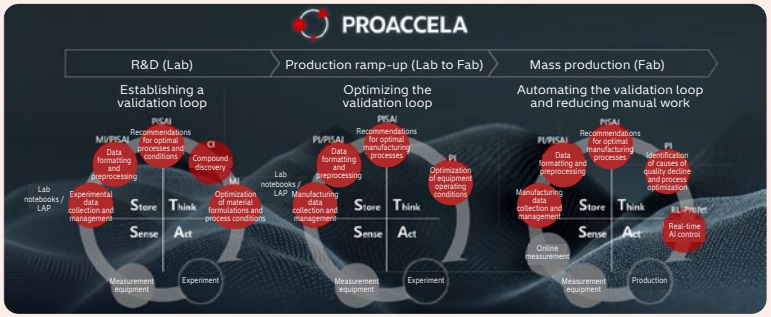


Hitachi High-Tech has renewed its materials development DX solution brand that uses AI and informatics technology as "PROACCELA." By integrating functions that had previously been offered separately, PROACCELA supports consistent use and advancement of data from R&D (Lab) through mass production (Fab).

PROACCELA draws on publicly available information, such as patents and academic papers, as well as knowledge and experimental data accumulated within companies. It uses these resources to recommend mass-production processes and enable simulation and optimization in virtual environments.

It streamlines the entire workflow, from collecting data and managing it in an AI-ready form to putting that data to use, helping researchers and engineers focus more on their core work. Along with tools, we provide support from Forward Deployed Engineers (FDEs)[*4], who work closely with customers throughout the process, from solving problems to creating value.

*4 A team of specialists who work directly at customer sites, providing end-to-end support from identifying business challenges and validating value early through proof-of-concept (PoC) projects to agile implementation in day-to-day operations

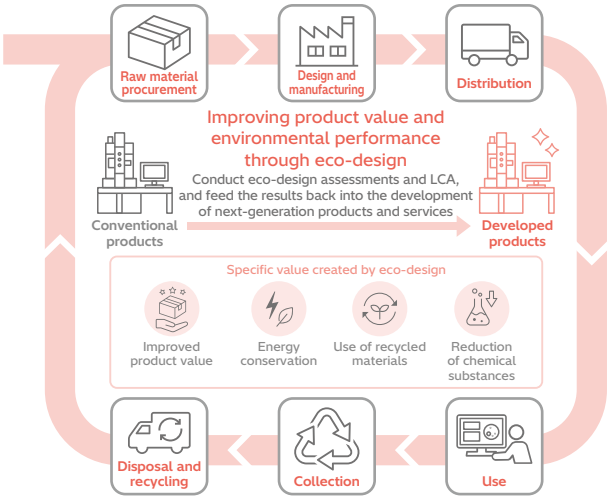


Creating Environmental Value through Eco-Design in Product Development

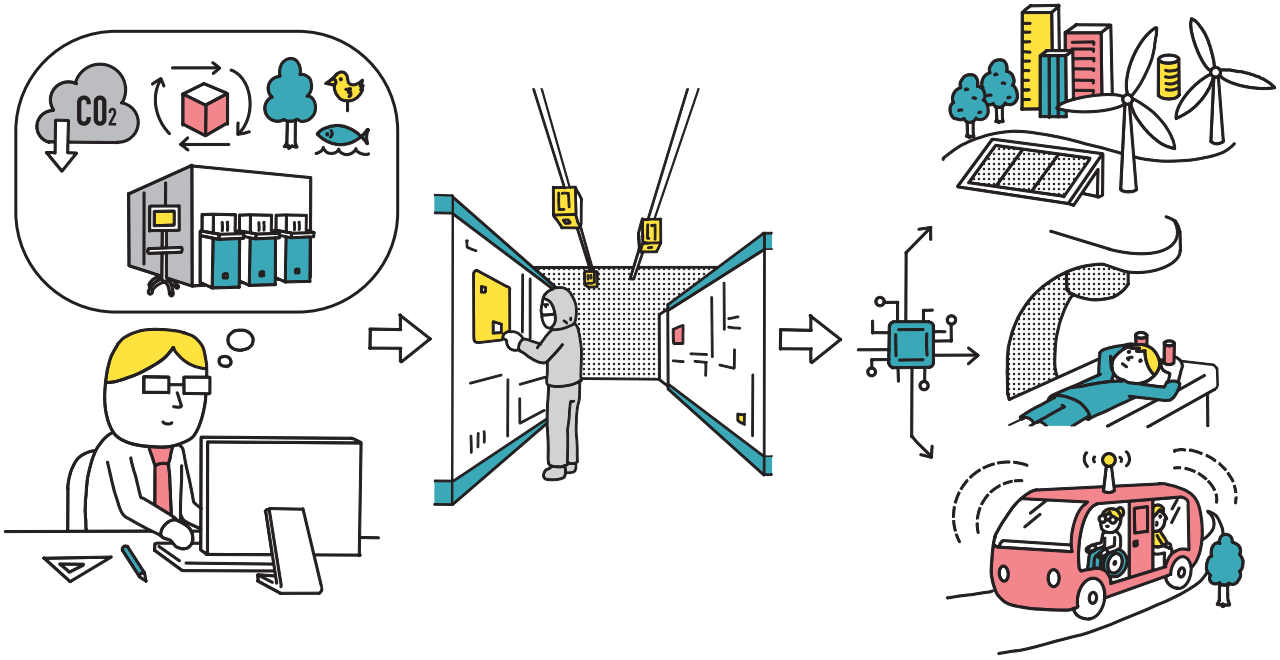
Creating environmental value with customers and the society beyond them in mind

To support sustainable business activities of our customers, Hitachi High-Tech is developing environmentally conscious products and services. From the early stages of development, we consider environmental impact across the entire life cycle and pursue both improved product performance and reduced environmental impact. Since FY2016, we have incorporated an eco-design (environmentally conscious design) approach into all newly developed products involving design work, conducting an eco-design assessment and a life cycle assessment (LCA). Through eco-design, we aim to create environmental value from multiple perspectives, including reducing GHG emissions when customers use our products, improving resource circularity, and reducing hazardous chemical substances. For example, in semiconductor manufacturing equipment, by bringing this environmental value to the manufacturing processes of customers, we contribute to a sustainable society supported by semiconductors in areas such as renewable energy, healthcare, and mobility.

Eco-design across the entire product life cycle



Lab to Fab, Fab to Society



My PLEDGES



Mr. Sasaki
Electron Beam Systems Design Dept.

Working together to develop the world's best environmentally conscious CD-SEM

We will bring together the strengths of everyone involved to develop the world's best environmentally conscious CD-SEM that excels in both environmental and metrology performance. We aim to develop products that everyone involved can be proud of.



Mr. Terauchi
Process Equipment Design Dept.

Simplifying high-tech processes with products that reduce environmental impact

We evaluate environmental impact across the entire product life cycle, from parts procurement to equipment disposal. Our goal is to develop equipment with a lower environmental impact than previous models. We are working hard to improve both etching performance and environmental value!

Case Study

Contributing to CO_2 reductions in semiconductor manufacturing through the pursuit of eco-design
"High-Precision Electron Beam Metrology System GT2000"



An "ultra-precise ruler" supporting semiconductor manufacturing

With advances in generative AI, autonomous driving, and next-generation communications, demand for semiconductors is expanding rapidly. At the same time, circuit patterns are becoming ever finer and more complex as performance improves, making highly precise measurements at the nanometer level (one millionth of a millimeter) indispensable to semiconductor manufacturing.

Playing a key role here is Hitachi High-Tech's CD-SEM (Scanning Electron Microscope). A CD-SEM measures the dimensions of semiconductor devices formed on silicon wafers—in other words, it serves as an "ultra-precise ruler" for semiconductor manufacturing. Since launching the world's first CD-SEM in 1984, Hitachi High-Tech has maintained a world-leading market share.

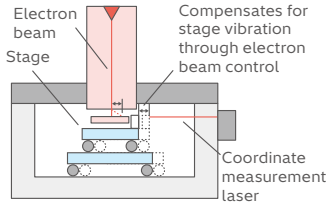
"GT2000": Combining high precision with low environmental impact

Launched in 2023, the latest model, the "High-Precision Electron Beam Metrology System GT2000," meets the high-precision metrology requirements of advanced 2-nanometer-generation semiconductors while also helping reduce environmental impact.

One feature is a 25% improvement in throughput compared with the previous model. Throughput refers to the number of wafers that can be measured within a given amount of time. By measuring more wafers in the same amount of time as the previous model, the GT2000 helps reduce power consumption and GHG emissions per wafer.

Because CD-SEMs require nanometer-order measurement accuracy, conventional systems applied the brakes to suppress vibration each time an image was acquired. The GT2000, however, achieves high-precision measurement without braking by tightly integrating Hitachi High-Tech's control and metrology technologies (Figure 1). In addition, Hitachi Group's analysis technologies were used to optimize the structure and control, improving stage travel speed as well.

Figure 1



Electron beam control system that compensates for stage vibration

Achieving a smaller footprint and lower power consumption

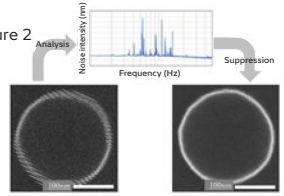
The GT2000 uses a compact, high-efficiency "switching power supply," reducing the equipment footprint by approximately 20% compared with the previous model.

Although switching power supplies are highly energy efficient, they tend to generate noise that can affect measurement accuracy, making their application to CD-SEMs challenging. The development team therefore established technology for detailed noise analysis and developed an electron beam control system to suppress its effects. This maintained high-precision metrology performance while reducing power consumption and making the system more compact (Figure 2).



The "Marine Site" achieves carbon neutrality by using electricity from solar and hydropower generation, along with geothermal energy.

Figure 2



Example of analysis results (top center) and suppression results (bottom right) for an SEM image with switching-power-supply noise superimposed (bottom left)

Reducing environmental impact in manufacturing and development processes as well

The GT2000's environmental considerations extend beyond the system itself. It is manufactured at the "Marine Site," a smart factory in Hitachinaka, Ibaraki Prefecture. The factory uses renewable energy and other measures to achieve net-zero GHG emissions during manufacturing.

At the design stage, MR (mixed reality) technology is also used to reduce the number of prototypes. By reducing the amount of materials required during development, we are working to lower environmental impact throughout the entire process from development through commercialization.

Supporting sustainable growth of the semiconductor industry

Semiconductor fabs may have several hundred CD-SEMs installed. For that reason, improvements in energy efficiency and processing capacity for each system can have a substantial overall impact.

While serving as an "ultra-precise ruler" that supports semiconductor quality and productivity, the GT2000 also helps reduce CO_2 emissions at manufacturing sites. The growth of the semiconductor industry that supports our digital society, and the realization of a sustainable society. The GT2000 plays an important role in supporting both.

Cancer treatment enabling work-life and social participation

Toward a society where people can continue treatment while living life on their own terms

To help realize a society where people can continue living life on their own terms—working, studying, participating in community activities, and more—even while facing cancer, Hitachi High-Tech contributes to improving each patient's QoL through particle therapy systems and X-ray therapy systems designed to reduce physical burden while delivering highly precise irradiation. We envision a future in which people can balance treatment with daily life, stay connected to society, and live with a positive outlook.

Providing next-generation radiation therapy systems that reduce physical burden

By providing minimally invasive radiation therapy systems with low radiation exposure, Hitachi High-Tech aims to reduce patient discomfort and enable cancer treatment with fewer hospital visits.

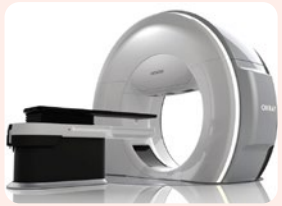
Particle therapy system

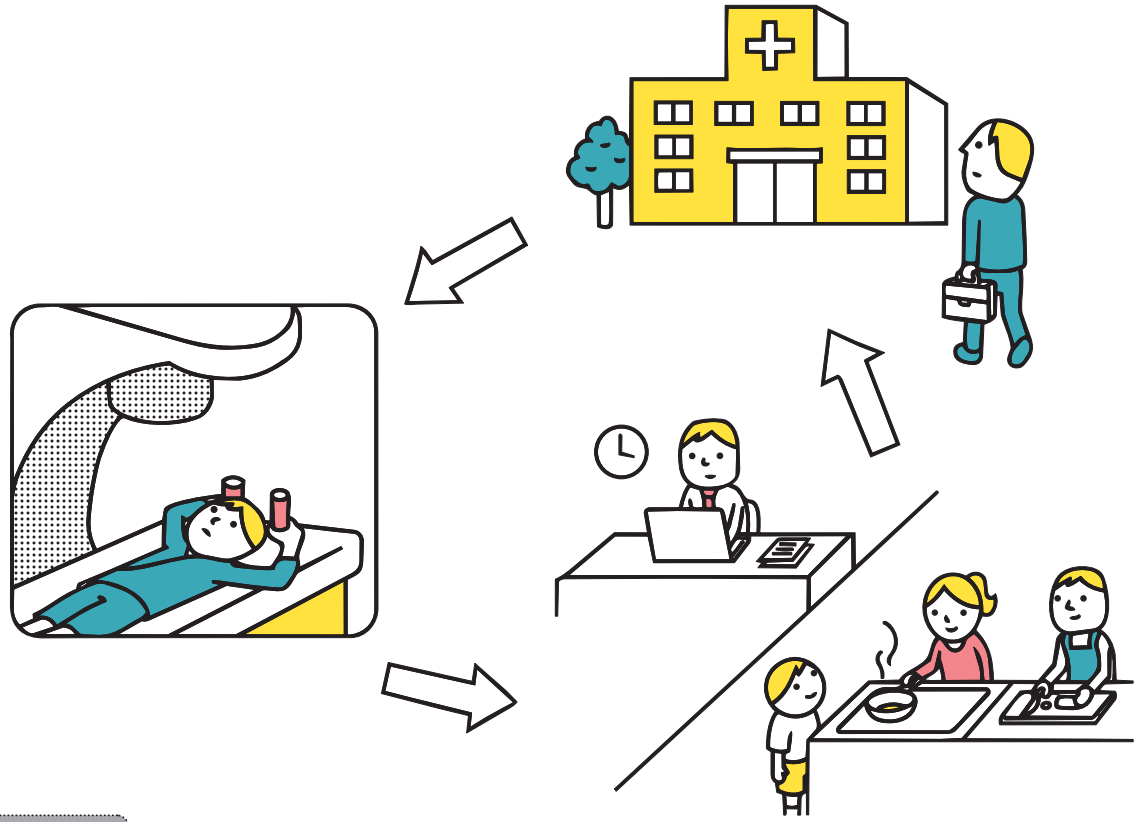
To enable medical institutions to choose the best treatment for different types of cancer, we offer hybrid systems capable of delivering proton beams, heavy ion beams, and beams using multiple ion species. They feature spot scanning technology and a motion tracking function.



X-ray therapy system

We offer the image-guided, high-precision X-ray therapy system "OXRAY." Its O-ring structure and two-axis rotation mechanism enable irradiation from multiple directions without moving the treatment couch. Combining image guidance and motion tracking technology, it delivers highly precise, pinpoint irradiation to lesions.





My PLEDGES



Mr. Nomoto
Business Promotion Dept.

Making particle therapy an option for a society without fear of cancer

Expanding treatment options brings greater peace of mind to society. While supporting proton therapy sites, we will communicate its effectiveness and value and work toward a society where people can face cancer with confidence.



Mr. Fujiwara
Design Dept.

Supporting an environment where patients can receive treatment with peace of mind

Being able to continue treatment as scheduled provides patients with significant peace of mind. By pursuing highly reliable design, we support an environment where patients can receive treatment with peace of mind.

Case Study

Expanding cancer treatment options with Hitachi High-Tech particle therapy

Cancer treatment must be delivered while minimizing the physical burden on patients. Particle therapy for cancer is attracting attention as one such option.
Hydrogen nuclei and carbon ions are accelerated to about 70% of the speed of light by an accelerator and focused on tumors (proton therapy uses accelerated hydrogen nuclei, while heavy-ion therapy uses accelerated carbon ions).
Because it causes virtually no pain during treatment and fewer side effects than other forms of radiation therapy, particle therapy is attracting attention as a treatment that allows patients to maintain their quality of life (QoL) while continuing both treatment and social life.
Hitachi High-Tech supports cancer treatment tailored to each patient through highly precise irradiation technology and the development of treatment environments.

Renewal of the proton therapy facility at University of Tsukuba Hospital

Together with TODA CORPORATION, BIKEN TECHNO CORPORATION, and Mitsubishi HC Capital Inc., Hitachi High-Tech is advancing a project under the PFI method[*1] to develop and operate a proton therapy facility at University of Tsukuba Hospital. This project marks Japan's first renewal of a proton therapy facility. The new facility was equipped with a proton therapy system featuring spot scanning irradiation technology, an accelerator, and two rotating gantry treatment rooms, and treatment began on September 29, 2025.

One distinctive feature is that the facility was renewed on a space-constrained site while medical services continued. A compact accelerator room and treatment rooms were built on a site adjacent to the existing facility, and renovation work was also carried out so that part of the existing facility could remain in use during construction of the new facility. A construction sequence was adopted that allowed medical services to continue as usual. This initiative provides a model for renewing a proton therapy system on a space-constrained site.

For 20 years after completion, the four companies will continue to use their respective expertise to support a stable treatment environment as partners of University of Tsukuba Hospital. As the representative company, Hitachi High-Tech is responsible for everything from procurement of the proton therapy system to its operation and maintenance.

University of Tsukuba Hospital has been a pioneer in proton beam cancer treatment research since 1983 and has provided treatment to 9,166 patients to date (as of the end of July 2026). Through operation and maintenance of the proton therapy system under this project, Hitachi High-Tech will help maintain a stable treatment environment.

*1 PFI (Private Finance Initiative) method: A method of using private-sector funding, management capabilities, and technology to construct, operate, and maintain public facilities and similar infrastructure.



Exterior of the Proton Therapy Center



Inside a treatment room

Installation of a proton therapy system at Tokyo Metropolitan Komagome Hospital

Hitachi High-Tech has received an order for a complete proton therapy system to be newly installed at Tokyo Metropolitan Komagome Hospital. For this project, a consortium comprising Takenaka Corporation, Hitachi High-Tech, and YOKOGAWA Architects & Engineers, Inc. was selected as the project operator. We will procure and install proton therapy equipment and help establish the new treatment environment.

As a Prefectural Designated Cancer Care Hospital, Tokyo Metropolitan Komagome Hospital plays a central role in cancer care in Tokyo. A new proton therapy facility will be established at the hospital, which also works to raise medical standards across Tokyo and strengthen the healthcare delivery system.

The new facility will have a compact layout, with a complete accelerator system and two rotating gantry treatment rooms. It will make effective use of the limited site to create an environment for providing proton therapy.

Hitachi High-Tech has supplied particle therapy systems for cancer treatment to medical institutions around the world, with more than 120,000 patients[*2] treated to date, demonstrating a strong record of reliability and performance. Leveraging this technology and track record, we will contribute to creating an environment that expands patients' treatment options through the development of this new proton therapy facility.



Exterior of the Proton Therapy Center

*2 Compiled from data through December 2024 published on the website of the PTCOG (Particle Therapy Co-Operative Group).

Ensuring safety of railway users

Supporting a society where everyone can travel by rail with peace of mind

People who use railways every day for commuting, school, travel, and other purposes expand their connections with society and local communities through safe and comfortable mobility. This essential railway infrastructure for society is supported from the ground up by advanced inspection and measurement technologies that precisely monitor the condition of railway equipment such as rails and overhead lines. For railway operators that require efficient, high-precision inspection equipment—and for everyone who uses railways—Hitachi High-Tech is advancing cutting-edge technology development not only in track inspection and trolley wire (overhead wire) inspection, but also in other areas.

Hitachi High-Tech's railway-related products

Peripheral equipment measurement

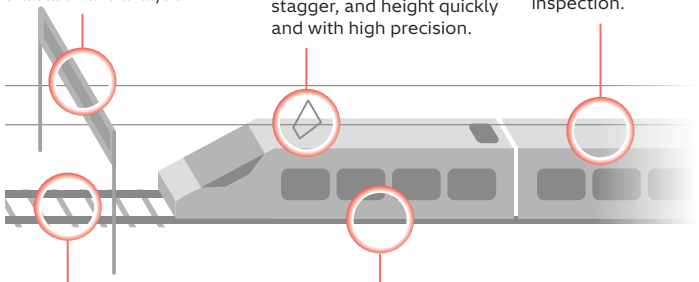
Measures items required for safe operation, such as surrounding obstacles, structures, and tunnel cross-sections, while the train is running. Camera images can also be used together with the measurement data for result evaluation and analysis.

Trolley wire (overhead wire) inspection

Overhead lines supply electricity; abnormalities can damage trains and surrounding equipment. To prevent abnormalities in overhead lines, the system measures wear, stagger, and height quickly and with high precision.

Inspection of train track equipment

A 4K camera installed on the roof of an in-service train on a conventional line records video of train track equipment, enabling desk-based inspection.

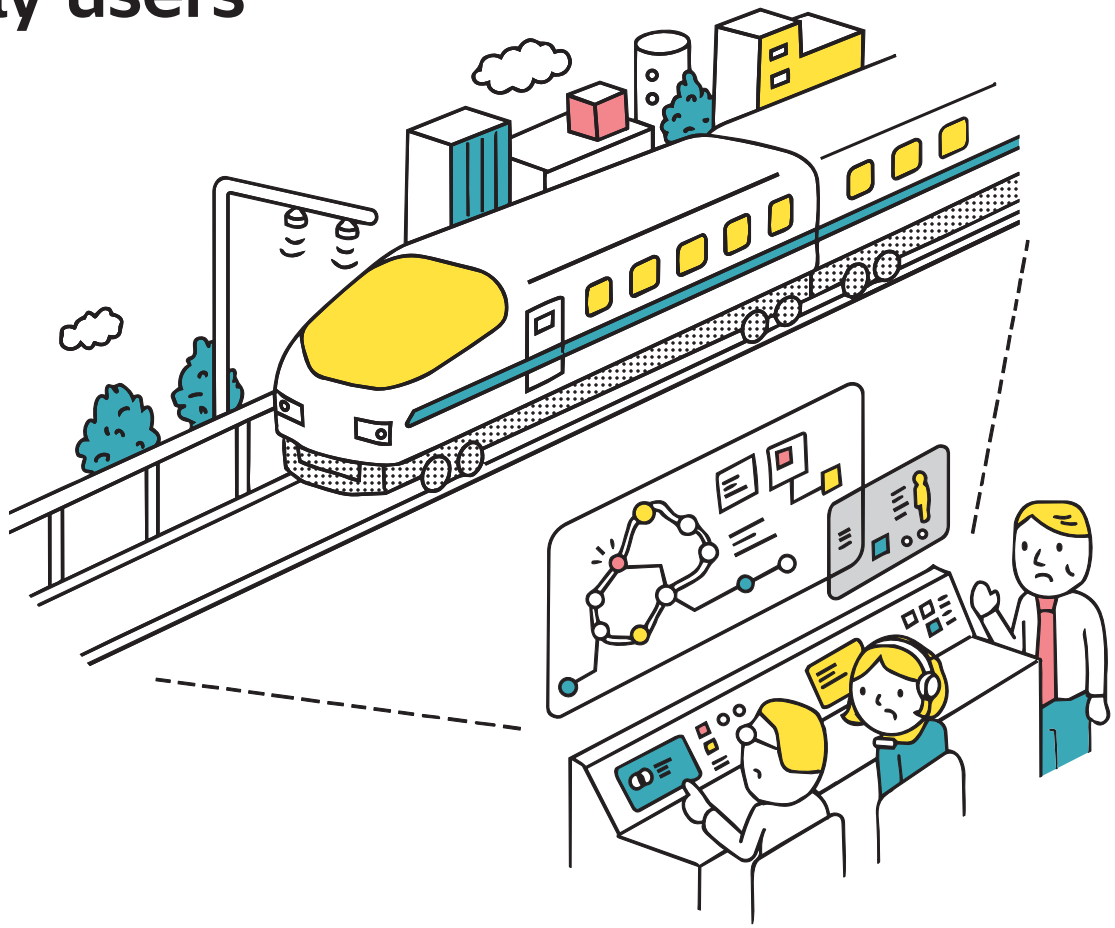


Rail (track) inspection

By detecting rail abnormalities such as twist and distortion, the system contributes to early repairs and prevention of accidents such as derailments, while also helping maintain smooth track and improve ride comfort.

Track component inspection

Using two-dimensional sensors, the system acquires profile data of track components and other equipment without contact and detects abnormalities with a ground-based analysis system.



My PLEDGES



Mr. Ogihara
Inspection System Sales Dept.

A sustainable future for railways begins with dialogue

Through dialogue with our customers, we identify the true challenges they face on site and provide the optimal solutions. By delivering the full value of our railway track inspection technology, we will achieve both labor savings and automation, as well as safe and stable transportation, and continue to contribute to building sustainable railway infrastructure and to the development of society.



Mr. Sakakibara
Inspection System Design Dept.

Supporting safe, secure rail transport through trusted inspection technology

We pursue highly reliable design, always focused on enabling customers to carry out inspections with confidence using our equipment and, in turn, protecting the safety of railway users.

Case Study

Developing Japan's first Railway Overhead Line Monitoring System equipped with 4K cameras Reducing inspection workloads to support safe, secure, and reliable rail transport

Regular inspections and maintenance of railway equipment are essential for railway operators to provide safe and secure rail transport. However, these inspections rely largely on visual checks, such as patrols on foot and close-up inspections from dedicated vehicles, requiring considerable labor and sometimes involving hazards. With the cooperation of Kyushu Railway Company (JR Kyushu), we developed the Railway Overhead Line Monitoring System. The system improves worker safety and maintenance efficiency.
In recognition of its initiatives and achievements in ensuring and improving electrical safety, JR Kyushu received the 70th Shibusawa Award from the Japan Electric Association. We also received the award jointly as JR Kyushu's technology development partner.

Monitoring overhead line equipment from the roof of an in-service train

The Railway Overhead Line Monitoring System uses cameras mounted on the roofs of in-service trains on conventional lines to record video of overhead line equipment, enabling monitoring from a desk. Eight roof-mounted cameras record video according to recording schedules configured in advance. The 4K cameras capture high-definition images of overhead line components—including trolley wires, hangers, and connectors—as well as equipment such as pull-off arms and tensioning devices. GNSS (Global Navigation Satellite System) data is acquired alongside the images, allowing equipment locations to be identified. The recorded image data is processed by a ground processing system, and an easy-to-use inspection application reduces the inspection workload.

For overhead line equipment inspections previously carried out visually by workers, the system has improved safety and reduced variations in inspection quality caused by weather and other factors. Five years after entering service, the system continues to help ensure a stable power supply for railways and safe working conditions.

The Hitachi High-Tech Group's Power of Knowledge and "One Hitachi" behind the challenge

As we ventured into the image processing field, technical support from Hitachi's research and development division enabled us to develop the system. In particular, we drew on the Hitachi Group's broad technological expertise for machine learning-based image extraction and H.265* encoding technology, both of which were still at an early stage at the time. At the start of operations, staff seconded from the system's design organization provided on-site support while deepening their understanding of the customer's work. As a result, within two years of introduction, the inspection coverage expanded to all of JR Kyushu's AC electrified sections, helping improve operational efficiency and inspection quality. We believe this commitment to working closely with customers in their actual operations to solve problems exemplifies the Hitachi High-Tech Group's Power of Knowledge.

Commenting on the award, the staff responsible said: "It is a great honor for this system, which I have worked on since joining the company, to receive such a prestigious award. We will continue to advance our technology to support safe, secure, and reliable rail transport." Hitachi High-Tech will continue its efforts to support the safety of railway infrastructure.

* The international standard for efficient video compression. It can reduce the data volume to about half that of conventional formats while maintaining the same image quality, significantly reducing storage requirements and network load. It is particularly suitable for high-resolution video such as 4K and 8K, and is used in a wide range of applications, including video streaming, surveillance systems, and railway monitoring.

System features

Remote operation
- Control of recording start/stop via wireless communication
- Remote monitoring of the system's recording status

Position information acquisition
- Acquisition of latitude/longitude data from GNSS positioning signals
- Position correction by synchronizing pole position detection with distance pulse signals

Viewing functions
- Supports display switching, playback speed selection, split-screen layout selection, and image zoom

Automatic control
- Automatic control of recording start/stop based on train speed
- Self-diagnosis and automatic recovery functions

Equipment extraction
- Automatically extracts frames containing the inspection target
- Displays an equipment list based on the pole number and distance from the pole

Flexible split-screen display (1–4 panes) and zoom function for specific areas to suit the inspection task



Railway Overhead Line Monitoring System delivered to Kyushu Railway Company

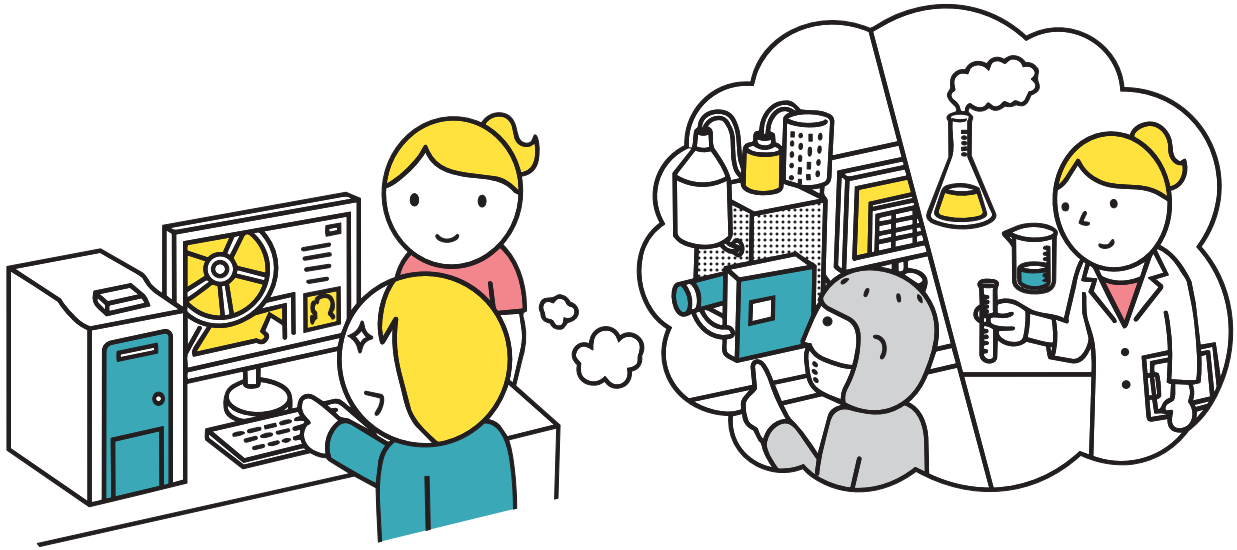


At the Japan Electric Association's 70th Shibusawa Award ceremony
Mr. Fukaya (left), Mr. Kameda (right)
[Inspection System Business Div., Industrial & Social Infrastructure Business Group]

Cultivating talent who pioneer the future with the power of science

Toward a society where the next generation can use science to thrive in the future

To help realize a society where children and students who will shape the next generation can develop an interest in and curiosity about science and forge their own futures, Hitachi High-Tech is advancing science education support activities. In collaboration with local communities in Japan and overseas, we create learning opportunities where participants can engage with science, think for themselves, and make discoveries through cutting-edge science and technology and our products and solutions. We hope the surprise and excitement gained through deeper learning will become a core motivation, inspiring them to keep aiming higher as innovators who will solve future social issues.



Hitachi High-Tech's science education support activities

We conduct science education support activities around the world using the Hitachi Tabletop Microscope Miniscope® Series. Through outreach classes and remote microscopic observation experiences, we have introduced a cumulative total of 540,000 children and students worldwide to the excitement of science.

Outreach classes

Employees serve as instructors at elementary and junior high schools, conducting classes that use electron microscope observations.



Exhibiting at events

We exhibit equipment at science events, where employees explain the equipment and offer visitors hands-on opportunities to operate it.



Equipment loans

We loan equipment to educational institutions such as high schools and universities, as well as science museums, for medium- to long-term use in curricula and events.

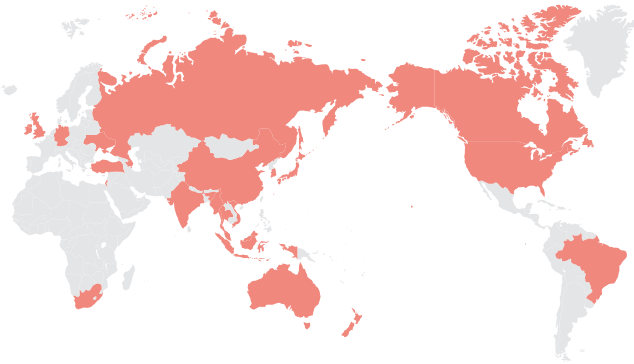


Information sharing

We publish activity reports, interviews with participants, learning content, collaboration videos, and more on our website and social media.



Activities in 31 countries and regions, reaching a cumulative total of 540,000 children and students



Case Study

Science education support activities centered on North America

Overview of the Inspire STEM Education Outreach Program

In the United States, a leader in STEM education, Hitachi High-Tech America, Inc. (HTA) has promoted the “Inspire STEM Education Outreach Program,” a science education support initiative centered on equipment loans, since 2011.

To efficiently expand activities across this vast region, we have developed programs that leverage the unique characteristics of each local community. We have built a STEM community with a broad network of educational institutions and NPOs, along with a library of resources created by educators. By establishing infrastructure for online activities and developing teaching kits, we have minimized barriers to using the latest technologies and steadily increased the number of participants in our activities.

The primary goal of our North American activities is for participating students to become STEM citizens and gain the confidence, skills, and mindset not only to prepare for careers but also to succeed and lead in modern society.

My PLEDGES



Ms. Harvey,
Hitachi High-Tech America

Contributing to the realization of a sustainable and resilient society through meaningful STEM education.

We create and deliver sustainable value through strategic STEM programs that raise awareness of sustainability, expand participation among diverse students, strengthen the future workforce pipeline, and advance corporate CSR goals.



Ms. Hamilton,
Hitachi High-Tech America

To expand access to meaningful STEM education and support the development of the next generation of talent.

Build relationships across education, industry, and community organizations to expand access to meaningful STEM experiences and connect learners to technology, innovation, and future career opportunities.

Examples of regions where initiatives are underway

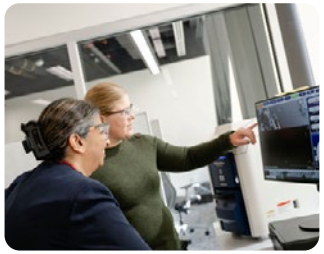
Victoria, British Columbia
(University of Victoria)



We held online demonstrations for educators using remote SEM operation, showing practical ways to use the technology in the classroom. We also published SEM images of familiar materials as educational content, providing ongoing learning opportunities.

Houghton, Michigan
(Michigan Technological University)

We installed an SEM in the mineral museum and provided local clubs with opportunities to image specimens. To further contribute to local education, we developed a “semiconductor sample kit” and are sharing these resources with other regions and communities.



San Francisco, California
(Exploratorium)

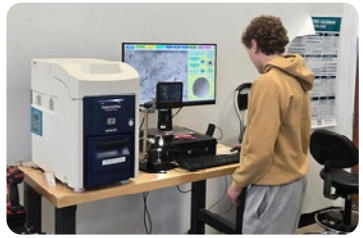
We provided visitors of all ages with opportunities to observe samples in real time through remote operation and to image samples they prepared themselves. By combining predictions of what samples would look like before observation with hands-on activities, we foster visitors’ curiosity and critical thinking.





Cleveland, Ohio
(Youth Technology Academy)

We built a foundation for collaboration with local stakeholders and loaned an SEM to a high school. Students gained hands-on experience analyzing material surface properties, while expert lectures and the program’s first-ever student assistant appointment further enhanced the educational effect.



Chicago, Illinois
(Field Museum)

We installed an SEM in the Science Hub and provided around 19,000 visitors with opportunities to observe enlarged images of specimens. Through quiz-style interactive exhibits and demonstrations of microscope operation by researchers, we create opportunities to deepen understanding of microscopy technology.

