

INITIATIVES FOR RESOLVING SOCIAL ISSUES

To achieve products, solutions and services that help to resolve the social issues included in the SDGs, OKI uses its customer base, install base, and technological capabilities as strengths to promote co-creation in collaboration with many partners and strive to achieve social implementation. Here, we introduce the Company's vision as well as the results of its fiscal year 2021 initiatives in relation to the seven social issues of materiality.

OKI Group Initiatives in Response to Seven Social Issues Set Forth Under Materiality

Social Issues	Initiatives	SDGs
Aging Infrastructure ▶(See page 22.)	Vision ▶ Utilizing sensor technologies and AI to help maintain aging infrastructure <ul style="list-style-type: none"> Registered our WX1033A/B optical fiber sensors—which contribute to the preventive maintenance of social infrastructure at a wide variety of sites—to the Ministry of Land, Infrastructure, Transport and Tourism's New Technology Information System (NETIS) (July 2021). Started selling monifi™, our infrastructure monitoring service that enables predictions of and preventive maintenance related to the deterioration of bridges and other infrastructure (March 2022). 	8, 9, 11, 13
Natural Disasters ▶(See page 22.)	Vision ▶ Achieving comprehensive disaster prevention solutions to provide self-help, mutual assistance, and public assistance aimed at disaster prevention and mitigation <ul style="list-style-type: none"> Achieved advanced disaster prevention management, including not only visualizing the local situation by using our DPS Core® disaster-prevention-information system but also providing an advance disaster prevention action plan, records of disaster response details, and evacuation-announcement judgment support functions (October 2018). Started selling a zero energy high-sensitivity camera that utilizes solar power, does not require an external power source, and makes it possible to take clear shots even in low-light environments, such as at night, without requiring additional lighting (March 2022). 	9, 11, 13
Transportation Issues	Vision ▶ Achieving ITS system evolution and a V2X network to help reduce traffic accidents and traffic congestion through infrastructure-cooperative ITS services <ul style="list-style-type: none"> Started selling AISION® Vehicle Sensing Ver.2, which uses AI-powered video monitoring to instantly detect congestion, stranded vehicles, and similar problems in order to reduce the burden of road management work (November 2021). OKI Engineering opened the eMobility Test Center, which greatly enhanced the reliability testing services of in-vehicle electronic equipment and devices for EV, ADAS (advanced driver assistance systems), and automated driving (May 2022). 	3, 8, 9, 11
Environmental Issues ▶(See page 24.)	Vision ▶ Promoting a reduced environment impact and helping to save on labor and increase work efficiency <ul style="list-style-type: none"> OKI Engineering announced the achievement of a Carbon Neutral Test Lab by reducing the CO₂ emissions resulting from the power used by five sites to zero by fiscal year 2025 (November 2021). Started up the trial operation of a delivery plan optimization system that uses AI to optimize distribution route delivery (November 2021). Completed the construction of the OKI Honjo Plant H1 building, Japan's first large-scale production facility to be certified as a "ZEB" factory (April 2022). 	7, 8, 9, 11, 12, 13
Labor Shortages ▶(See page 23.)	Vision ▶ Achieving safe and secure site environments and improved work efficiency to help sites struggling with labor shortages <ul style="list-style-type: none"> Started selling the CR-30, a new type of change machine that helps to reduce the workload of register work and management while also improving self-checkout user friendliness (February 2022). Started selling DISCOVERY neo2™, an IP PBX system for large-scale offices that reduces the burden of telephone work related to remote work and helps to achieve diverse work styles (February 2022). Started delivering SmartCashStation, a self-service deposit and withdrawal machine that offers improved user-friendliness to customers and lightens the load of help-desk-related work, with the aim of introducing the next generation of Yamanashi Chuo Bank's high counters (April 2022). Started building and operating an automatic transportation system that uses autonomously moving robots in connection with the start of OKI Honjo Plant H1 building operations (July 2022). 	5, 8, 9, 11, 10
Labor Productivity	Vision ▶ Utilizing know-how from our factories, we will support the digital transformation of the manufacturing industry and the creation of smart factories <ul style="list-style-type: none"> Started selling an appearance abnormality judgment system that utilizes AI-powered video to prevent work mistakes from being overlooked during the assembly process (November 2021). Jointly developed T-Communication, a centralized information management system that greatly improves the productivity of work done at construction sites, with Taisei Corporation (February 2022). Developed temperature measurement technology with a spatial resolution of 10 cm, the aim of which is to monitor temperature distributions at high temperatures of 750°C or more by using optical fiber sensors, such as the plumbing of next-generation thermal power plants and chemical plant reactors (May 2022). 	8, 9, 12, 14
Infectious Diseases	Vision ▶ Utilizing non-contact terminals, automatic ETC payment, and remotely operated robots to achieve non-contact/non-face-to-face site solutions <ul style="list-style-type: none"> Started up the trial operation of multipurpose ETC utilization services for a trash incineration facility for the first time in Japan (which is expected to improve user friendliness by eliminating the need to use cash and help prevent the spread of infectious diseases by reducing chances for contact) (November 2021). Started selling our Hygienic Touch Panel for ATMs, which can be operated without contact (November 2021). 	3, 8, 9, 11

Initiative Case Examples for Resolving Social Issues

Here, of our initiatives in response to the seven social issues shown in the table, we introduce in detail four issues we are taking on.

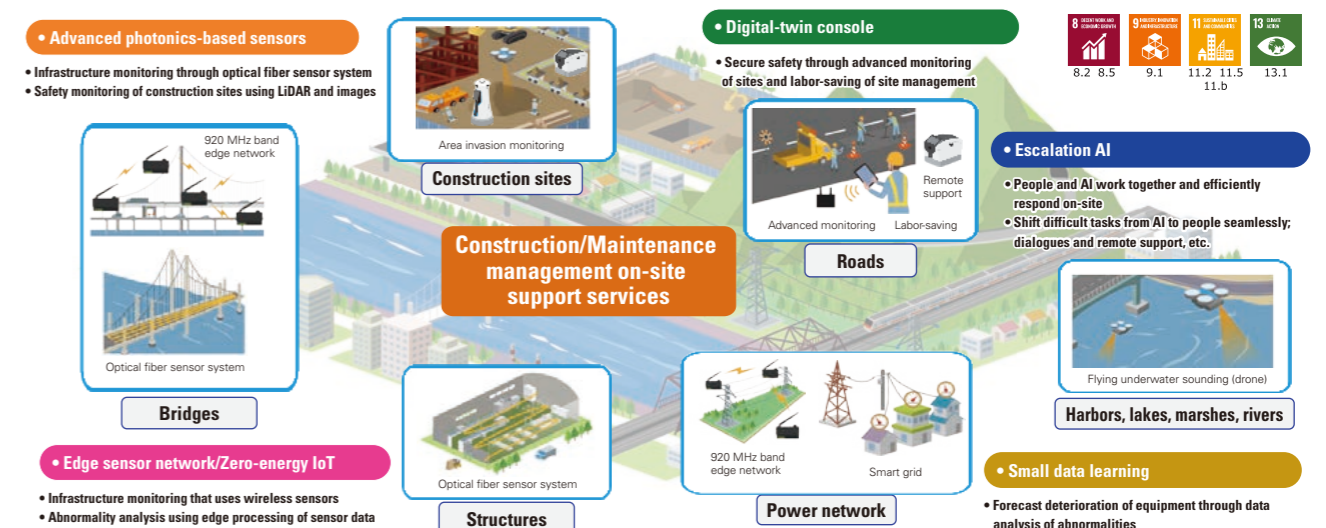
Addressing Aging Infrastructure

Much of Japan's social infrastructure created during the country's period of high economic growth (tunnels, bridges, roads, water supply and sewage systems, etc.) is deteriorating due to aging. For example, of the 720,000 bridges in Japan, over half are said to have been constructed at least 50 years ago. Given that repairing and reforming such infrastructure has become an urgent issue nationwide, there is a pressing need for solutions that can reduce the related maintenance and management costs.

To reduce the maintenance and management costs of aging social infrastructure, OKI is using optical fiber sensor technology that can perform high-speed, wide-range distortion and temperature measurements as well as power-reducing IoT technology that does not require the installation of communications/power lines, through a combination of a natural-energy-based

power supply and close-distance wireless technology. OKI provides optimal solutions by processing data that meets objectives, such as status diagnosis and deterioration forecasting. In addition, to ensure that both state and local governments will use these solutions, we are promoting registration to the Ministry of Land, Infrastructure, Transport and Tourism's New Technology Information System (NETIS).

In July 2021, the OKI optical fiber sensor WX1033A/B was registered to NETIS. WX1033A/B enables distributed, real-time measurement of temperatures and distortion at long distances and over a wide range. Through NETIS registration, we are contributing to the preventive maintenance and soundness monitoring of infrastructure at diverse sites, including national public works construction sites.



Examples of OKI's initiatives for responding to aging infrastructure

Handling Natural Disasters

In response to typhoons considered to be serious disasters, landslides caused by torrential rain, and similar disasters—all of which are occurring more frequently in recent years—municipalities throughout the country have been obtaining information from national and prefectural disaster-prevention-information systems to make decisions and provide instructions on how to respond. In particular, to provide evacuation instructions to local residents, it is most important for the instructions to be prompt and accurate, and, to achieve this, it is essential to promptly

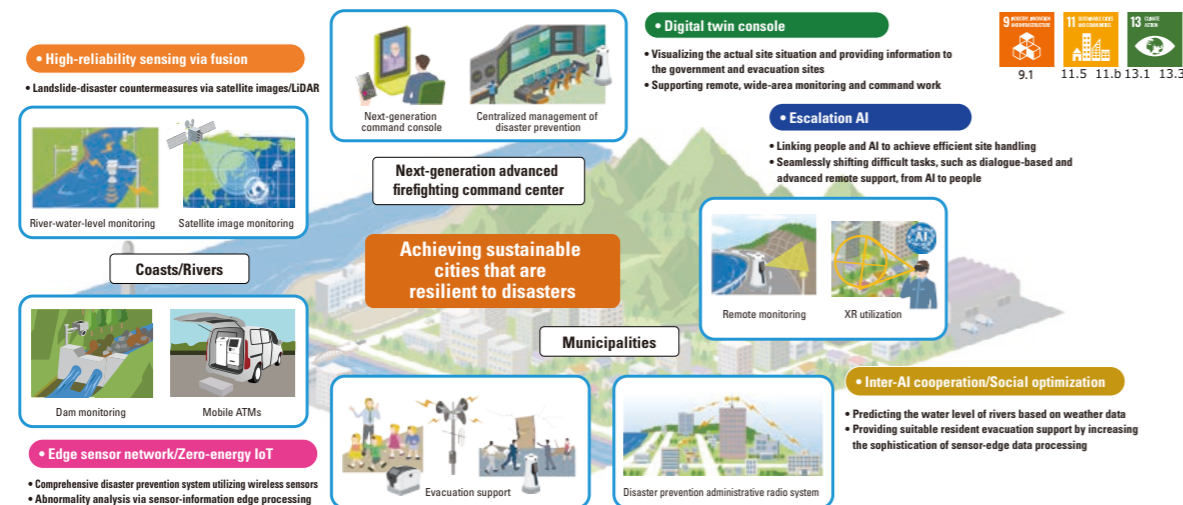
share precise information from the affected site in real time. OKI supports firefighting and disaster prevention activities that support the safety and security of the community through solutions that utilize AI Edge sensors, wireless solutions, and the development of management functions that support work. In the future, we will provide systems that collect information from sensors equipped with both river-water-level sensing and video monitoring functions, and these systems will utilize AI Edge computers set up on-site (at the edge) to promptly notify

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sites and municipalities of the results of primary processing and analysis. In addition, by linking this data with weather and other data, we will ensure the security and safety of local residents and visitors, thereby contributing to achieving disaster-resilient cities.

In March 2022, we started selling a zero-energy high-sensitivity camera that utilizes solar power, does not require an external power source, and makes it possible to take clear shots even in low-light environments, such as at night, without

requiring additional lighting. This product enables around-the-clock monitoring of the situation of river flooding, landslides, and other disasters. In addition, by linking these cameras with monitoring systems such as our monifi infrastructure monitoring service—which we announced at the same time—we can achieve comprehensive disaster prevention DX services, including the ability to automate infrastructure patrol inspections over a wide range as well as the ability to visually confirm the situation of disaster sites from remote locations.



Examples of OKI's initiatives for responding to natural disasters

Handling Labor Shortages

Due to Japan's declining birthrate and aging population, the generation in charge of job sites is clearly shrinking, and serious labor shortages have become chronic in multiple industrial fields.

In addition, due to societal needs during and after the COVID-19 pandemic, there is an increasing demand for unmanned, non-contact, non-face-to-face solutions, so there are growing

expectations for service robots that can take over on-site operations. Most service robots perform tasks on site automatically by using AI, but it is difficult to continuously provide services without any people. In particular, if the AI fails to respond due to the occurrence of unforeseen events, the operational efficiency is reduced, and achieving on-site recovery takes a lot of work.

To respond to on-site operational issues, OKI is utilizing the AI Edge, networking, and robotics technologies the Company has cultivated so far as well as its results in the field of 24-hour online/remote maintenance and know-how related to the building and operation of various center systems in an effort to realize advanced remote operation systems. In line with the increasingly diverse situations in which service robots are utilized, we are also connecting with a wide range of robots across vendors in order to enable the 1:N operational management of

many robots by one person. In addition, by taking advantage of diverse sensors installed at on-site facilities, linking with wearable systems that support on-site persons in charge, and enabling optimal cooperation between remote locations and job sites, we are simultaneously helping to resolve labor shortages and achieve unmanned or labor-saving on-site operations.

In the security, facility management, distribution, and logistics fields—in which it is necessary for a large number of people to respond intermittently across multiple areas—OKI is focusing on on-site issues facing each field, looking closely at the safety and security of work environments as well as the provided value, and continuing to conduct experimental trials with co-creation partners, all in the interest of helping to solve problems in each field.

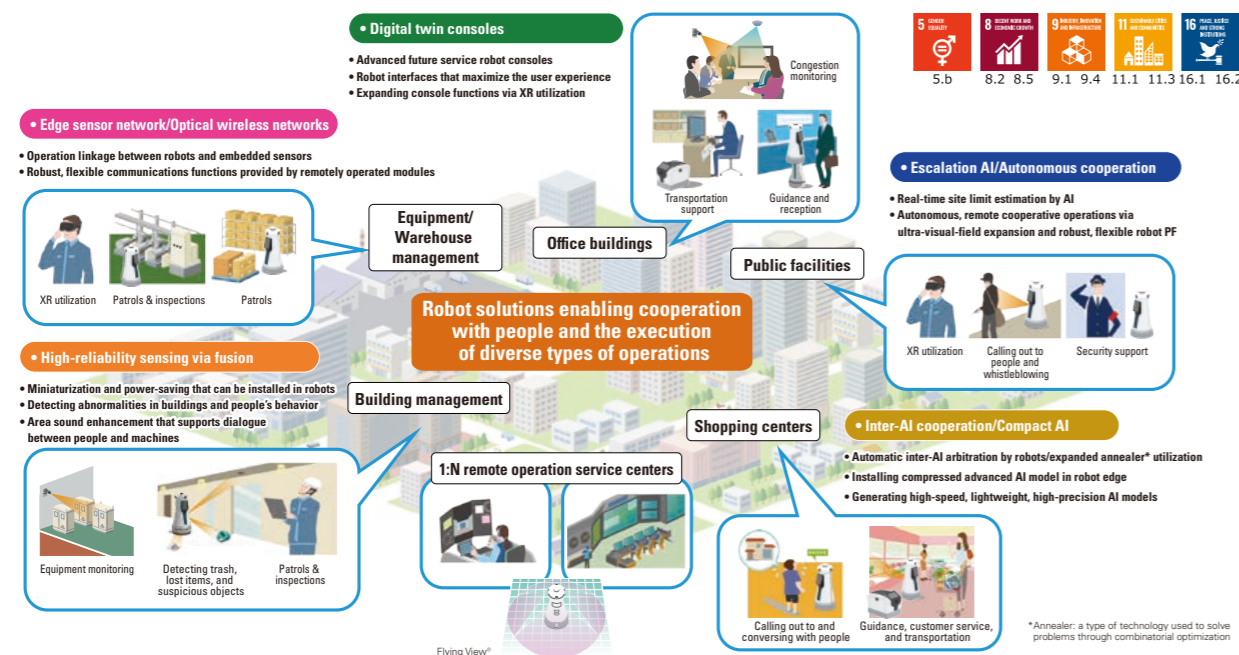
Handling Environmental Issues

There is currently a demand for specific measures to address environmental issues, and, in recent years, the need for carbon neutrality in particular has been increasing. To achieve carbon neutrality—although various measures are already being taken, including the utilization of renewable energy and carbon credits—it is also essential to pursue initiatives aimed at optimizing and increasing the efficiency of energy throughout society, including IT equipment energy saving and the utilization of ICT technology.

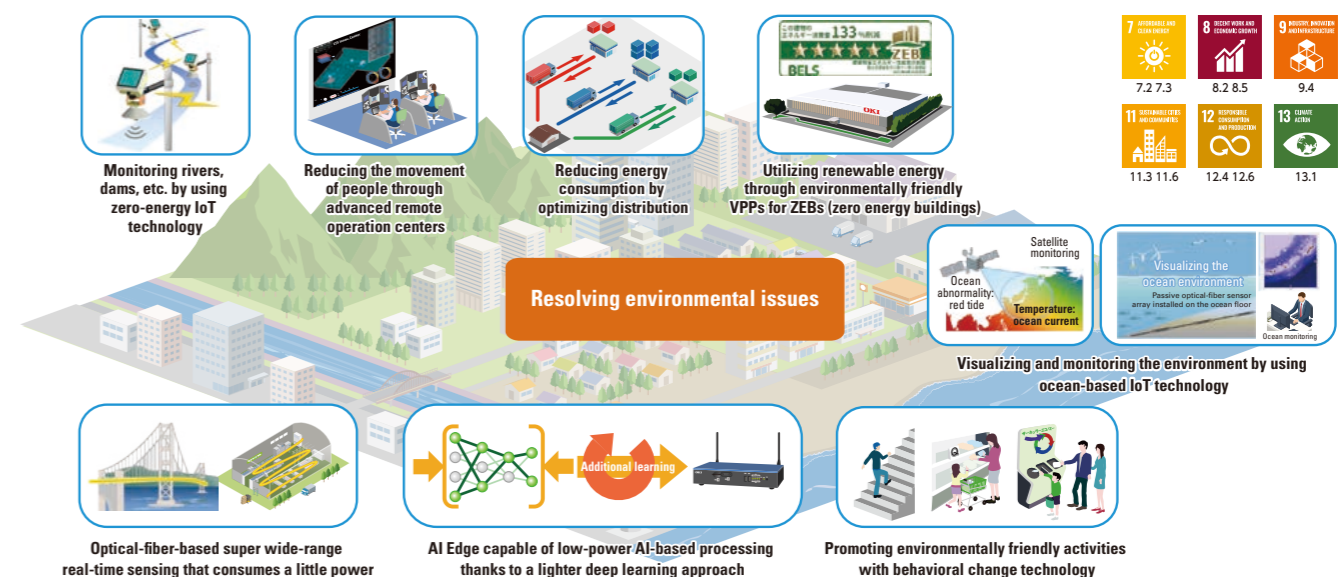
To help address such issues, OKI is promoting the development of technologies to reduce the energy consumption of its equipment based on AI Edge sensing technologies. Examples of this include the development and commercialization of technology that reduces the power consumed by advanced AI processing via lighter deep learning approaches as well as the development of visualization technology for optimizing and increasing the efficiency of the energy use of society as

a whole. As was also mentioned in the above explanation of our response to natural disasters and aging, our zero-energy IoT technology that utilizes solar power and our optical fiber sensing technology—which enables long-distance sensing with low power consumption—are also examples of technologies based on a strong awareness of environmental issues.

In addition, in the transportation field, we have confirmed that—by using AI to optimize route delivery plans for truck-based shipping—we successfully reduced the total driving distance. This is expected to contribute to reduced CO₂ emissions. We are also aiming to utilize quantum computers for optimization problems such as the above in order to further reduce the environmental impact. In addition, we provide behavioral change services that encourage people to use the stairs, thereby promoting initiatives in a new field that aims to simultaneously improve worker health and save on power in office buildings.



Examples of OKI's initiatives for responding to labor shortages



Examples of OKI's initiatives for responding to environmental issues