

Focal field 2 A safe and secure remotely connected society



Creating new value emphasizing safety and security

The Kawasaki Group leverages its expertise in remote operation and information technologies as well as robotics technology across diverse fields, such as healthcare, nursing care, manufacturing, and industrial infrastructure, to propose new workstyles and lifestyles which enable all people to participate fully in society through the realization of a remotely connected society. We are also actively undertaking initiatives for the realization of a safe and secure society, including the development of various remote technologies for the defense and disaster prevention fields.

Achieving Telemedicine

Related business
● Precision Machinery & Robot

The *hinotori*™ Surgical Robot System

Kawasaki Heavy Industries established Mediaroid Corporation as a joint venture with Sysmex Corporation to develop, manufacture, and sell medical robots. Mediaroid developed the *hinotori*™ Surgical Robot System, a robotic assisted surgery system, to realize patient-friendly minimally invasive surgery based on the industrial robot technologies that Kawasaki has accumulated over its history of more than 50 years. Regulatory approval for this system was obtained from the Ministry of Health, Labour and Welfare in 2020, and Mediaroid has incorporated opinions from surgeons to provide functions with enhanced usability which have facilitated an expansion in its business in Japan since its launch. Mediaroid is additionally proceeding with global market expansion, for example by securing regulatory approval for the system in Singapore and Malaysia by August 2024. As of the end

of June 2025, the system has been used in a cumulative total of over 11,000 cases.

In addition, Mediaroid has been participating in projects aimed at realizing remote surgery as initiatives for solving social issues. Milestones to date have included the use of the system to successfully conduct the first ever demonstration experiment of remote surgery between Europe and Japan, in June 2025. There are high expectations that this technology will contribute to solving regional disparities in healthcare.



The *hinotori*™ Surgical Robot System, from Mediaroid Corporation (Legal manufacturer: Mediaroid Corporation)

* "hinotori" is a trademark or registered trademark of Mediaroid Corporation.

DX Solution Service Using Positioning Information **Business development through collaboration**

Workstyle reforms through visualization of the movement of people and goods

In 2021, we launched our PNT business and invested in Mapxus, a company operating primarily in Asia, and have since been offering mapxus Driven by Kawasaki™, an indoor positioning information service as an exclusive business in Japan. This service does not require any special hardware, relying solely on the Wi-Fi signal environment. Further, it can seamlessly connect indoor positioning information with outdoor positioning information obtained through GPS and other means.

The service has already been employed at Mitsui Fudosan Co., Ltd., Narita International Airport Corporation, Kobe Suma Sea World, as well as at factories of major manufacturers. In addition, through collaboration

with our delivery robot services and healthcare business, we can offer complete solutions for enhancing operational efficiency in hospitals and nursing facilities.

We aim to provide a wide range of DX solutions, including for capturing and analyzing information on the positioning and movement of people and goods indoors, and for driving operational improvements.



DX solution service using positioning information

Development of New Business in the Healthcare Field

Related business
● Precision Machinery & Robot

Support for the introduction of equipment and robots at nursing care sites

Kawasaki entered the nursing care support services field, which entails providing support for nursing care facilities—which are faced with labor shortages and other challenges—via the introduction of suitable nursing care equipment and robots in 2024. In cooperation with the No Lifting Association, Kawasaki is analyzing on-site issues and needs at nursing care facilities and nursing care equipment manufacturers, and recommending nursing care equipment and robots to support those needs. In July of this year, our proposal for the “Development of a nursing care DX package model to quantitatively improve care technology and demonstrate the investment effects” using digital technology was selected for the Japan Agency for Medical Research and

Development (AMED) Fundamental On-Site Improvement Project Using Nursing DX initiative.

Kawasaki will additionally offer support for the development of new equipment in this field as well as for its on-site introduction, utilization, and establishment. Our indoor positioning information service, mapxus Driven by Kawasaki™, is utilized in measuring the activities of caregiver staff to understand on-site challenges and needs. The Company is currently a participant in the Kobe City Eldercare Technology Implementation and Promotion Project, through which it is conducting verification test at several nursing facilities in Kobe.



Nursing care support service

Toward a Society of Human-Robot Coexistence **Related business** ● Precision Machinery & Robot ● Powersports & Engine

Automation of delivery work to free up people to focus on tasks that only humans can do

The indoor delivery robot FORRO is playing an active role in diverse spaces, from medical and accommodation facilities to condominium buildings and offices, thereby contributing to the realization of a society where humans and robots work alongside each other. To a background of intensifying labor shortages, FORRO can be deployed to handle deliveries of packages, medical specimens, medications, and other items, to facilitate the creation of environments which enable staff to devote themselves to their core, value-added tasks.

Kawasaki commenced provision of trial indoor delivery services for medical specimens, medications, and other items using FORRO at Fujita Health

University Hospital from July 2023 and at Fujita Medical Innovation Center Tokyo from October 2023, and services were then formally introduced at these facilities in April 2024. Keio University Hospital, Yokohama City Minato Red Cross Hospital, and other facilities have also commenced operations deploying FORRO's automated delivery services which have already handled over 35,000 deliveries (as of September 2025).

We will continue to actively explore further ways to utilize service robots to reduce the burdens on medical workers and improve operational efficiency.



FORRO indoor delivery robot

Response to Disasters **Related business** ● Aerospace Systems ● Energy Solution & Marine Engineering ● Powersports & Engine

The Kawasaki Group has an extensive lineup of devices and systems which are useful at times of disaster, such as medical service helicopters, emergency power generators, and off-road four-wheelers and motorcycles. These also played an active role during the 2024 Noto Peninsula Earthquake.

In 2024, a permanent Disaster Relief Task Force,

headed by the President, was created to establish and review disaster prevention agreements with external stakeholders outside of times of disaster. When a disaster strikes, this task force works with the national and local governments to promptly provide assistance in accordance with the phase of the disaster.

Kawasaki support after the 2024 Noto Peninsula Earthquake



Helicopter reservation service (Z-Leg™)



Off-road four-wheeler (MULE) (Source: Japan Ground Self Defense Force public relations channel)



Emergency power generator



Disaster relief volunteers Activities conducted during the 2024 Noto Peninsula Earthquake