Practice of Strategy and Performance | Group Vision 2030: Goals and Results in the Three Focal Fields

ocal field and goal	Main actions	Social outcomes (results)	Targets for 2030	Key performance indicators (KPIs)	Specific measures	Achievements in fiscal 2023
A safe and secure remotely connected society New value creation using remote technology Create a society that is rich, safe, and secure for all with remote technology	Realization and dissemination of minimally invasive and advanced robotic endoscopic surgery using robotic-assisted surgery system Practical application of telesurgery using robotic-assisted surgery system Social implementation of nursing care robots Business in automated, autonomous, and remote technology support for manufacturing and service industries Offer new ways of working and living to realize a remotely connected society Provide a platform to match workers with businesses seeking labor using remote robots (joint venture business with Sony Group) Provide transportation, power generation, and other equipment at times of disasters	Improve patient quality of life through minimally invasive and advanced robotic-assisted surgery Eliminate regional disparities in healthcare through telesurgery Reduce the burden on healthcare and nursing care workers Improve productivity and alleviate labor shortages Work style reforms Time flexibility Eliminate strenuous, dirty, and dangerous work Remote work that includes on-site operations Secure labor Provide opportunities for all people to participate in society Support for evacuees (improve quality of life) Save more lives	Robotic-assisted surgery system made widely available globally and being used in many surgeries Practical application of telesurgery using robotic-assisted surgery system Eliminate 5% of Japan's approximately 2,000,000 shortage in healthcare and welfare workers (market estimated at over ¥1 trillion) Eliminate 5% of Japan's approximately 4,000,000 shortage in manufacturing and service industry workers (market estimated at over ¥2 trillion)	(a) Annual number/cumulative total of cases using surgical robot system (b) Steady achievement of telesurgery development milestones (c) Remote platform active users	Realization of easy-to-use robotic-assisted surgery system through improved operability and functions Obtaining regulatory approvals in respective regions toward global expansion Implementation of telesurgery demonstration tests using robotic-assisted surgery system Adoption of nursing care robots in hospitals Market introduction of personal care products that use remotely connected technologies Development and implementation of robots for warehouses and stores Practical application of humanoid robots On-site work using remotely controlled robots at plants (proof of concept demonstration begun in fiscal 2021) Deliver medical service helicopters Deliver standby generator sets	hinotori™ surgical robot system (Medicaroid Corporation) Systems installed: cumulative total of 55 facilities Number of operations conducted: over 2,900 annually / cumulative total of over 4,200 Obtained regulatory approval in Singapore Implemented telesurgery demonstration test with Singapore at a distance of approximately 5,000 Launched the RemolinkBuilder, a service to enable remote system development and the Remolink™, service to connect businesses and workers using remote robots Implemented demonstration test of support service business for nursing care work to support sites of nursing care utilizing nursing care devices and rob. Introduced indoor positioning service in commerciand other facilities
Near-future mobility Transforming the movement of people and freight Create a society where people and freight move safely, quickly, and efficiently using new forms of mobility	Offer new equipment and systems, such as delivery robots and unmanned transport helicopters Offer automated, autonomous, and remote solutions for the logistics industry Reduce environmental burden and utilize advanced safety technology in transportation equipment Respond to mobility as a service (MaaS) Increase speed and efficiency of inter-city transport Promote optimization via integrated control of marine, land, and air transport Develop new personal mobility Take part in super city projects Coordinate with municipalities to realize advanced cities	Handle increasing logistics volumes and alleviate labor shortages Provide safe working conditions Realize a society that enables the environmentally friendly and safe movement of people and freight Realize seamless urban transportation increase the speed and efficiency of the movement of people and freight Alleviate traffic congestion and logistics delays Disaster-resilient community building Rapid transportation of emergency supplies, etc.	Eliminate 20% of Japan's approximately 200,000 shortage in logistics workers Commercialize new mobility Delivery robots Unmanned VTOL aircraft (vertical take-off and landing aircraft) Autonomous four-wheelers Supply chain optimization services, etc. Autonomous marine transport (Marine Collaboration Project) Take part in super city projects	(a) Number of unmanned VTOL aircraft and total volume transported (b) Number of delivery robot users and total volume transported	• Logistics chain optimization Phase 1 • Autonomous transportation and loading equipment (autonomy that extends to the last mile) Phase 2 • Supply chains (create seamless connections: improve efficiency, including for reloading systems) • Overseas expansion by 2030 • New mobility • Commercialize delivery robots and autonomous four-wheelers by 2025 • Full-scale operation of VTOL and integrated transport service business by 2030 • Realize super cities • Coordinate with municipalities to take part in super city projects (total optimization of urban transportation, including the movement of people) • Build overarching management systems for the movement of people and freight (local MaaS) Organically link these with other Group businesses • Build cooperative relationships with logistics companies and software companies	 Commissioned by Ina City, Nagano Prefecture, for it Unmanned VTOL Cargo Transport Platform Development Project (ongoing) Participated in the Shinshu DX Promotion Consortium; currently constructing communications systems in mountainous areas (ongoing) Conducted verification tests and demonstrated the high effectiveness of robot introduction in specimen delivery at Fujita Health University Hospital toward realizing the "Smart Hospital" concept (deployed multiple delivery robots in actual tasks and succeeded in having both human and robots ride together in elevators at the same time) Provided the Z-Leg™ one-stop service for air trave arrangements by helicopter, in collaboration with municipalities, travel agencies, railway companies, and others
Energy and environmental solutions Working toward the stable generation of clean energy Quickly achieve a stably powered, carbon-neutral society at low cost	Build a hydrogen supply chain High-volume, stable supply of hydrogen Expand the use of hydrogen Power generation systems, transportation equipment, etc.	 Reduce the price of hydrogen energy Help address climate change by reducing CO₂ emissions Provide clean travel and transportation by land, sea, and air 	Hydrogen Hydrogen supply from Kawasaki solutions: 225,000 t/year (when commercialized) CO2 reduction of 1.6 million tons (theoretical value) through hydrogen energy from Kawasaki solutions Existing products Manufacture of even more environmentally friendly products Reduction of CO2 emissions from products	Hydrogen (a) Hydrogen supplied by Kawasaki solutions (b) CO2 reductions from Kawasaki's hydrogen energy solutions Existing products (a) Reduction of CO2 emissions through product-based contributions (b) Number of registered products and revenue in Kawasaki Ecological Frontiers (formerly Green Products)	Form a hydrogen consortium Technological development Establish technologies for larger scale, leveraging NEDO subsidized projects and partnerships Increase transport volume (Two or more carriers in 2030; 80 or more carriers in 2050) Develop hydrogen-fueled rolling	Hydrogen • Signed a collaboration agreement with Kawasaki Ci with a view to building a liquefied hydrogen supply chain centered on the Kawasaki Coastal Area. Furthermore, signed an MOU with Resonac Holding Corporation, a power generation business active in the Kawasaki area, on collaboration for development of the hydrogen power generation business in the Kawasaki area.
	Electrify products Transportation equipment and systems as well as components for construction machinery Alternative fuels Sustainable aviation fuel (SAF), biomass, etc.	 Help address climate change by reducing CO₂ emissions 			Mass production of hybrid and electric motorcycles and off-road four-wheelers Deliver hybrid and electric marine propulsions Begin pilot-scale demonstration testing of energy saving	Kawasaki area Completed the basic design of a "Hydrogen Platforn a mechanism to "visualize" distribution of hydrogen throughout the supply chain, from production to utilization, through digital management, and thereb facilitate the tracing of hydrogen Existing products (a) CO2 reduction contribution by products: 16.30 million t-CO2 (b) Number of registered products and net sales in

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