The leader in slope-related disaster prevention technology

With the increase in landslides and slope-related disasters due to climate change, Chuo Kaihatsu aims to bring its state-of-the-art disaster mitigation technology to Southeast Asia, South America and beyond.

Makoto Tanaka, President, Chuo Kaihatsu Corporation

Since its establishment in 1946, Chuo Kaihatsu has performed geotechnical surveys, measuring, analysis and design of the ground that supports structures such as roads, bridges, dams, ports and buildings across Japan. Having spent over 75 years studying Japan's disaster-prone topography and geology, the company has gained immense expertise in disaster prevention technologies and now aims to take this technology global.

"We want to contribute to prevention and mitigation of landslide disasters in South America and China, where we have our bases, by utilizing our tilt sensor-based slope monitoring technology, which has been recognized by international academic societies," says company president Makoto Tanaka.

When it comes to disaster prevention, early warning systems (EWS) are the starting point. Among Chuo Kaihatsu's flagship EWS technologies is the Kantaro, which monitors the behavior of the ground and issues an advance warning when there is a threat of collapse, thus giving precious time for evacuative action before disasters occur. "We are the only company in the world that has control thresholds for predicting slope failure. The Kantaro, our EWS for slope disaster prevention, has been installed in many countries, such as China, Australia, Bhutan, Sri Lanka and Brazil," adds Mr. Tanaka.

CKC construction consulting Chuo Kaihatsu Corporation

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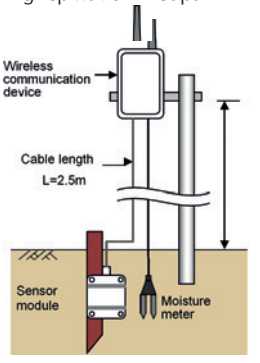
Chuo Kaihatsu today provides cutting-edge geotechnical analysis and disaster mitigation services, providing geological information through the internet, ground and structure simulation using big data and AI, ground risk assessment using point cloud data from drones, and ground and structure maintenance using sensor technology. "We want to install our Kantaro tilt sensors in various conditions around the world. By doing so we can prevent as many slope disasters as possible," adds Mr. Tanaka.

Due to climate change, natural disasters are becoming ever-more frequent. From South America to Southeast Asia and beyond, Chuo Kaihatsu will play an important role in keeping societies safe in the face of increasing slope disasters, thanks to long-cultivated technology and expertise in geotechnical analysis that has earned the company its sterling reputation in Japan.

Equipment installation site



Equipment composition

Interior and exterior view of equipment