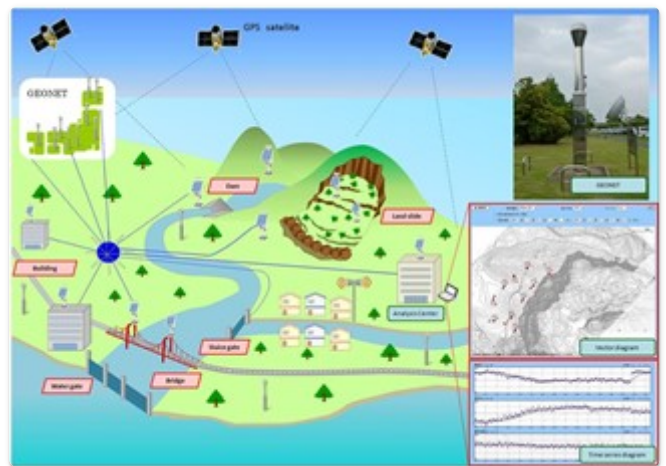


Real-time Deformation, Landslide and Subsidence Monitoring with GNSS

Hitachi Zosen Corporation has been engaged by the Geospatial Information Authority of Japan to build, operate and maintain an Electronic Datum Point Network and real-time continuous monitoring system capable of monitoring movements in the earth's crust at millimeter-level precision. Hitachi Zosen provides high-precision displacement monitoring systems and services to support advanced applications involving satellite positioning and geospatial data. Hitachi Zosen also supplies systems capable of measuring surface height and tide levels at very high precision in real-time and at very long distances of up to 1,000 km. This data is used in disaster prevention and maritime applications.

The GNSS continuous observation system monitors movement in bedrock and the earth's crust for earthquake and landslide prediction, and positional shifts in displacement of structures (infrastructure such as roads, bridges, water gates, dams and embankments). The system combines measurement data with a range of information processing algorithms.



Company Name

Hitachi Zosen Corporation

Cost Range (K USD)

• 100 - 1,000

Company Web Page

<https://www.hitachizosen.co.jp/english/>

Countries with Track Record

• None

Technology Web Page

<https://www.bosai-jp.org/en/solution/detail/48/search>

Track Record

• Not introduced in developing

Sector - Category - Sub-Category

- Natural Disasters, Coastal Areas
 - Disaster Risk Reduction (prevention)
 - Disaster monitoring, disaster prediction, early warning

countries yet