Ground Deformation Monitoring via SAR satellite data

- Analyze satellite data to detect subtle, LONG-term ground shifts over WIDE areas.
- Identify infrastructure risks early and identify key areas for additional inspection.
- This technology can also detect displacements in embankments, buildings, bridges, and dams, and assess impacts of construction and resource extraction.

Company name	Mitsubishi Electric Corporation
Service Overview	Time-series SAR analysis detects gradual ground deformations and infrastructure risks early, enabling experts to take preventive action before disasters occur. This technology leverages radar (SAR) satellite imagery to monitor surface changes over time and track the latest conditions. It applies not only to ground shifts but also to monitoring river embankments, bridges, buildings, and dams, and assessing the impact of construction and resource extraction projects.
User	Construction Industry, Government and Municipalities (Disaster Prevention and Mitigation Agencies), Mining and energy industry, Insurance Companies
Satellite	・SAR satellite(i.e. ALOS-2, ALOS-4)
URL	https://www.mitsubishielectric.com/bu/space/satellite_solutions/

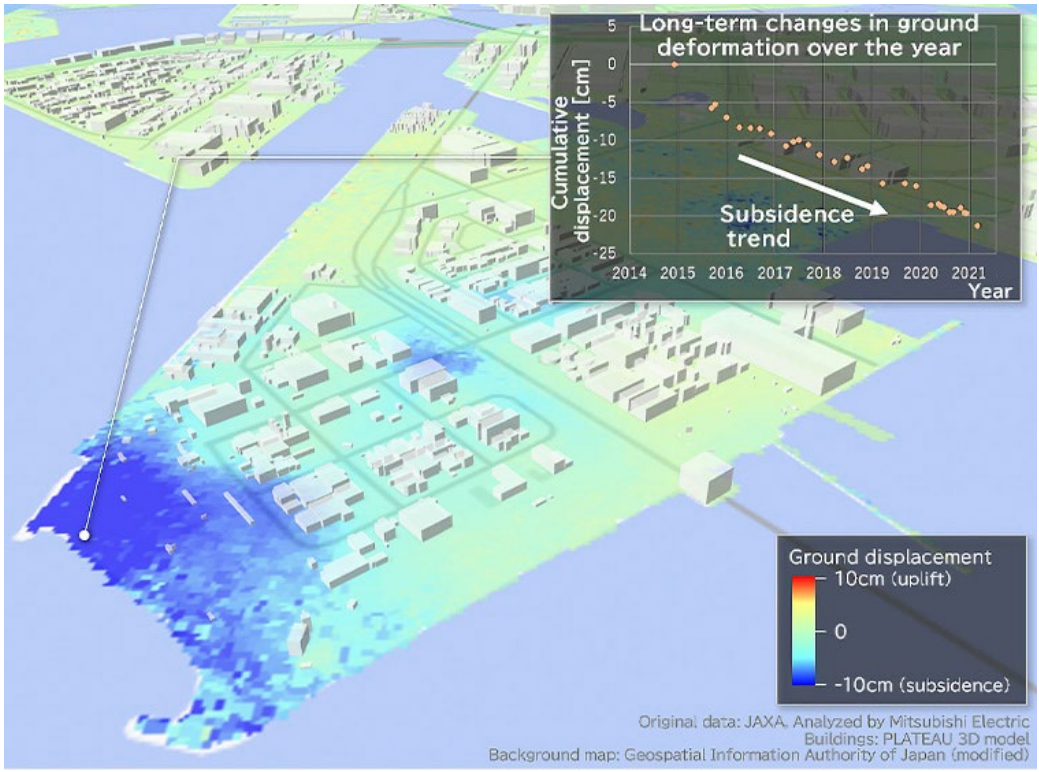

Fig. Wide-Area Ground Deformation Analysis