Low-cost Satellite-based Monitoring Services for Subsidence, Erosion and Slope Instability

Overview

Our bespoke GNSS services are carefully designed to meet your precise requirements for monitoring ground movement – at a highly competitive price.

We provide 24/7/365 monitoring to detect centimetre-scale movements between an array of fixed stations in real-time.

Our complete solutions incorporate the latest GNSS hardware & software, comprehensive spatial processing, and expert interpretation, allowing you to detect ground motion in real-time, gain new insights into reservoir response, and ensure regulatory compliance.

Geospatial Research Limited

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GNSS Monitoring

Our complete GNSS solutions are a tried-and-tested low-cost way to monitor ground movement

Wide-ranging Applications

- Monitor short-term and long-term ground movements due to:
  - landslides, erosion and floods;
  - subsidence in the built environment, infrastructure or on earthworks;
  - subsurface fluid abstraction or injection.
- Receive early-warning alerts if significant motion occurs.
- Reduce response time for catastrophic events.
- Plan preventative maintenance when it is needed.
- Evaluate the success of remedial expenditure.
- Enable data-driven decisions to guide prudent investments (protecting homes, businesses and infrastructure).

Complete GNSS Deployment & Processing

- Survey design.
- Equipment selection, assembly & installation.
- Spatial processing of raw data.
- Expert collaboration to aid your interpretation.

Various Equipment & Price Options

- Single frequency, short baseline positioning.
- Dual frequency, long baseline positioning.
- Up to 20 Hz data rate.
- Fully-autonomous solutions with data delivery.
- Long-term deployment.
- Easily integrated with our Lidar, UAV & other services.

Discuss your needs:

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GRL: About Us

- Founded in 2004, we are a commercial company, with historical connections to the energy industry.
- We have completed multiple successful industrial and commercial projects, with deployments across UK, mainland Europe, the Middle East, Americas and Australasia.
- We are at the forefront in the application of new spatial technologies to improve geoscience interpretation, and have a very active research & development profile (http://geospatial-research.com/research-archive/).