

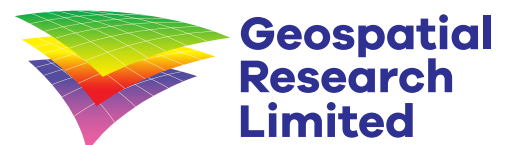


Repeat Lidar Monitoring for Extractive Industries and Geotechnical Engineering

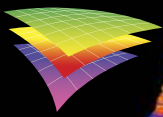
Overview

Our lidar-based solutions provide reliable, high precision rock face and slope monitoring, whether you need occasional repeat surveys or detailed change detection on a 24/7 all-year-round basis.

Our bespoke monitoring services integrate a wide range of lidar, GNSS, power and data transfer technologies to provide autonomous repeat surveys with remote access to results at all times, and which can be incorporated into your existing monitoring strategies – all at highly competitive prices.



**Geospatial
Research
Limited**



Lidar Monitoring

Lidar-based monitoring provides a unique balance of excellent spatial precision, high resolution, and extensive surface coverage, even at long ranges

Wide-ranging Applications

- Rock face and slope stability in surface mining and quarrying.
- Volume calculation (underbreak and overbreak) for shafting and tunnelling.
- Landslides & mass wasting processes.
- Coastal erosion.
- Monitoring infrastructure and the built environment.
- Easily integrated with our discontinuity analysis.

Complete GNSS Deployment & Processing

- Survey design.
- Equipment selection and assembly.
- Site installation and base survey calibration.
- Spatial processing of raw data.
- Integration of data into existing monitoring systems.
- Expert collaboration to aid your interpretation.

Various Equipment & Price Options

Fully customised set-up to meet your precise needs:

- Mains and/or solar power, UPS and battery back-up.
- Data transfer via ethernet, wireless or GSM modem.
- Data processing on-site, cloud-based, or on our dedicated servers.
- Flexible front-end dashboards to monitor results.
- Easily integrated with our GNSS survey and monitoring services.



GRL: About Us

- A commercial spin-out from Durham University, we have a proven record of commercial success in providing specialist services and multiclient studies worldwide.
- We have carried out commercial lidar scanning since 2004 with industrial projects across Europe, N. & S. America, Africa, Asia, and the Middle East.
- We are at the forefront in the application of new spatial technologies in geoscience, and have a very active ongoing research & development profile (<http://geospatial-research.com/research-archive/>).



Discuss your project needs
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