

MONITORING AND MAPPING SOLUTIONS

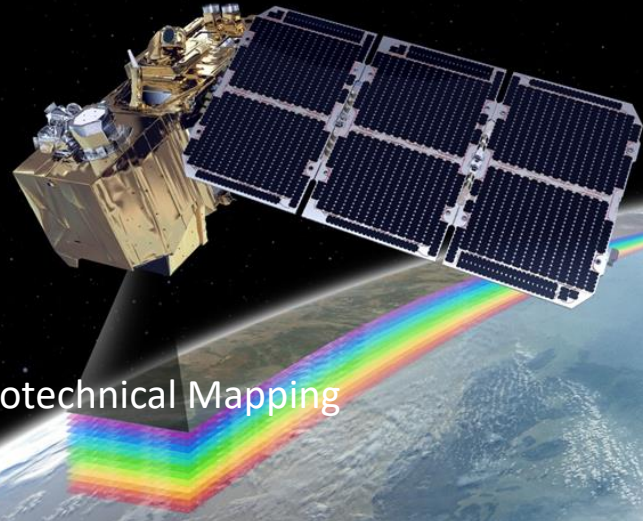
Slope Stability | Surface subsidence | Geotechnical Mapping

Company Profile

- Precision Point Consulting is a mining technology services company with over 30 years of mining industry experience.
- Specializing in providing monitoring, survey and mapping solutions.
- Pioneers in the use of InSAR, drones and multispectral imagery for mining applications.
- Proven track record of providing services across a range of projects and industries.
- Consulting to most of the major mining and consulting companies throughout Africa.
- Precision Point Consulting has developed a unique geotechnical monitoring solution which combines the technologies of satellite InSAR and multispectral analysis with Drone mapping. This solution provides clients with precise ground deformation measurements along with, high resolution aerial imagery and accurate digital terrain models from which detailed geotechnical mapping can be performed. Pit surface moisture conditions can also be determined from the multispectral imagery indexes.
- These are all essential components to delivering a complete monitoring solution for open pits, waste dumps, underground mines, and tailings dam facilities.

Services

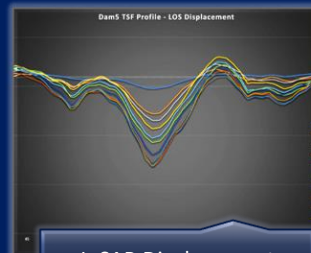
- Pit slope stability monitoring
- Surface subsidence monitoring from UG mining
- Dump monitoring
- Geotechnical drone surveys
- Geotechnical digital mapping
- TSF monitoring
- Surface moisture monitoring
- Aquifer monitoring
- Rehabilitation monitoring
- Mine production surveys
- Geohazard Analysis
- Hydrological mapping
- Industrial inspections



Satellite InSAR



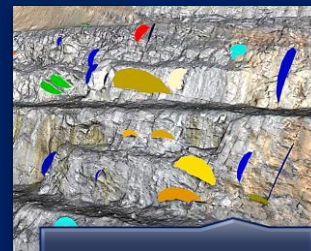
UAV Surveys



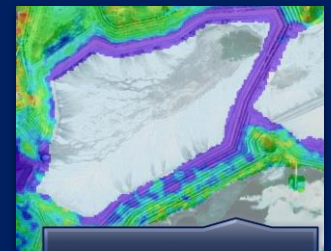
InSAR Displacement
Monitoring



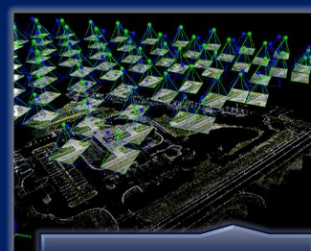
Multispectral Imagery
Analysis



Geotechnical Mapping



TSF Monitoring



Photogrammetry



Remote Monitoring

INSAR | DRONE | SATELLITE

Slope Stability | Surface Subsidence | Geotechnical Mapping

Geotechnical Monitoring Solution

INSAR MONITORING

- Pit Slope stability
- Dump and stockpile monitoring
- Heap leach monitoring
- Surface subsidence from UG mining
- Surface subsidence from dewatering
- Risk classification of anomalies
- Historical displacement analysis

INSAR AND DRONE OUTPUTS

- Surface displacement maps
- Time series point displacement
- Displacement profiles
- Displacement database
- Dense point clouds
- 3D surface models
- Very high-resolution imagery

GEOTECHNICAL SURVEYS

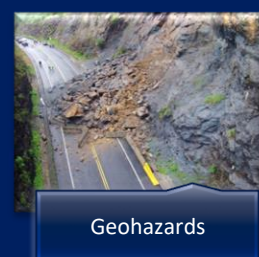
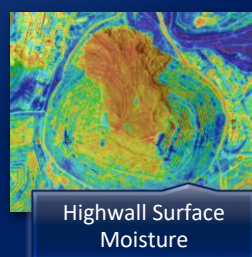
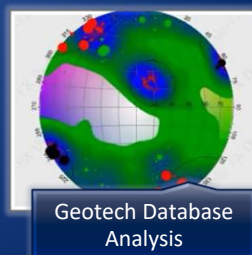
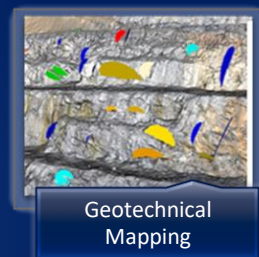
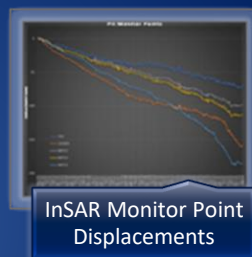
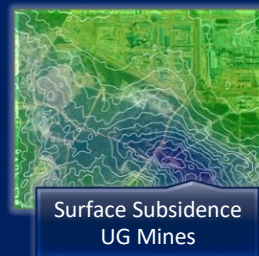
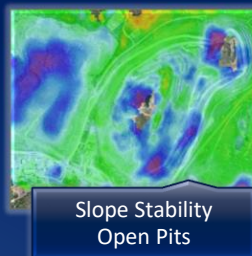
- Drone-based pit highwall surveys
- Visual inspections from imagery
- Hazard identification
- Geological mapping
- Data for geotech mapping

GEOTECHNICAL MAPPING

- Digital mapping of drone survey data
- Geotech discontinuity database
- Stereonet plotting
- Basis for further kinematic studies

BENEFITS

- Improved risk management
- Cost effective
- Higher accuracy
- Entire site monitoring
- High spatial resolution of monitoring points
- Regular update frequencies
- No fixed equipment required
- Safest monitoring solution
- Independent of weather
- Remote monitoring benefits



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