

CONTAINMENT SOLUTIONS ACTIONABLE RESULTS

Dig into our mining and geotechnical expertise.

ESG Solutions is your best choice for subsurface diagnostic solutions for mining and geotechnical applications.

Since 1993, our microseismic monitoring specialists have provided mining services in over 40 countries, with 100 projects each year on average. We work with you to understand your unique challenges and monitoring goals, then develop the right all-in-one solution for your operation.

Our mine monitoring services give you a better understanding of subsurface site conditions, provide the decision-driving data you need, and ensure operational safety, uptime, and productivity.

'ESG Solutions has high-quality sales and after-sales service, which produces confidence when purchasing equipment."

Mining Client



We're ready to tackle your biggest mining and geotechnical challenges.

Make informed and empowered decisions with real-time microseismic data associated with:



Underground



Block caving



Solution Mining



Open pit Mining



Soft rock Mining



Rockfall and Rail monitoring



Dam monitoring



Tailings dam monitoring



vibration and blast monitoring



Underground storage





MICROSEISMIC MONITORING FOR ENHANCED UNDERSTANDING OF ROCK MASS DEFORMATION

Get peace of mind by giving ground control engineers solutions to manage seismic risk.

We design the system to be best suited for the mine, giving you the best detectability
for areas of concern. With microseismic monitoring, you're alerted in real-time about
changing rock conditions and hazardous ground conditions that could affect your site's
safety and productivity, keeping workers safe and ensuring operational uptime.

By reviewing data from past microseismic events, we also identify how subsurface rock mass responds to your mining and geotechnical operations, allowing you to predict and plan for subsurface challenges during future operations.

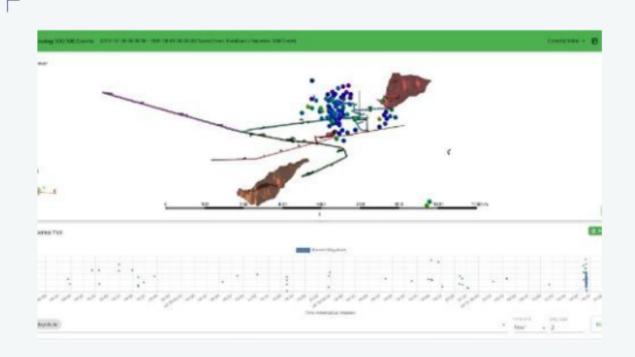


INSTALLATION, TRAINING & PROJECT MANAGEMENT

We innovate, design, and manufacture proprietary microseismic systems specifically for subsurface mining and geotechnical applications, such as wireless underground data transmission and slimline multi-sensor arrays. Our field team assists with installing this technology anywhere in the world, and we train your site staff to use our hardware and software.







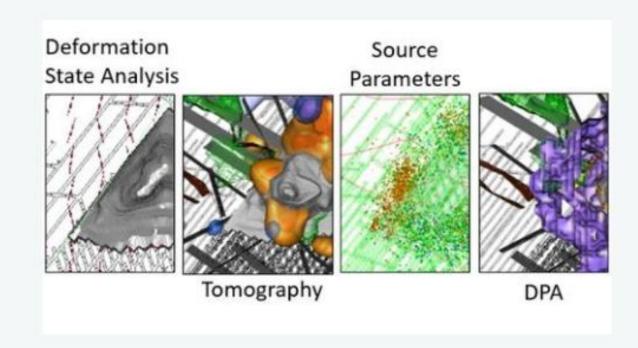
DATA PROCESSING & INTERPRETATION

We don't just provide raw data from our microseismic monitoring systems. Work with our data processing group of highly trained geophysical staff to review and analyze your results, and get expert analysis and reporting delivered on a daily, weekly, or monthly basis. With our advanced, comprehensive microseismic analysis and consulting, you know exactly what your data means and how you can apply it to your specific mining or geotechnical operation.



ADVANCED ANALYTICS & CONSULTING

We're pioneers in microseismics, and we have led ongoing research and development in that field since the early 1990s. Since day one, we have invested in a better understanding of not only the data we collect, but also the rock mass behaviour behind it. As a result, we are able to provide customers with cutting-edge instrumentation, powerful custom software, and analytical solutions that empower any operation.





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