



Mira Geoscience

We offer a broad and integrated range of mineral exploration, mine engineering, geotechnical, and environmental solutions. Our software and interpretation workflows are adapted for the mining industry from proven, state-of-the-art oil industry earth modelling technology.

Professional Expertise:

- » advanced 3D geological modelling
- » rapid wireframing of complex geology
- » structural modelling with sparse data
- » 3D rectilinear and stratigraphic gridding
- » 3D-GIS spatial analysis and query
- » geometric, structural, and property statistics

- » exploration planning and interpretation
- » exploration targeting workflow
- » drillhole planning

- » Advanced Geophysical Interpretation Centre
- » 3D geophysical modelling and inversion
- » geophysical survey design
- » detectability analysis

- » petrophysics and rock property databases

- » 3D geochemical modelling
- » resource modelling
- » geostatistical estimation and simulation

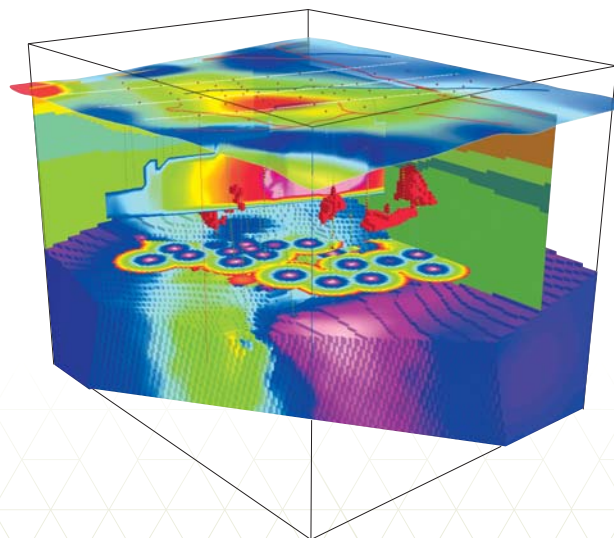
- » geotechnical hazard estimation and monitoring
- » geometallurgical deposit modelling
- » grid construction for stress, heat flow, and fluid flow modelling

- » advanced 3D visualization systems
- » 3D visualization ("Virtual Reality") theatres

- » custom interpretation workflow development
- » custom software development
- » consulting
- » training and support

Our competitive advantage stems from leveraging the technical excellence and major R&D investments of our partners in both the energy and mining industries. Our philosophy is to seamlessly integrate the world's most advanced earth modelling technologies into workflow-based software solutions that provide better, faster decisions for the mining industry. We provide quantitative solutions to critical business challenges, from geophysical data interpretation, to 3D exploration targeting, to resource modelling, to a range of upstream production issues.

We represent a new approach to old business and technology problems, a new way of thinking. A thoroughly quantitative, multi-disciplinary, 3D approach based on the strength of state-of-the-art technology and committed commercial, academic, and government R&D partnerships. The foundation of our software solutions is the Gocad®* Mining Suite Base Module, a mining-customized extension to the Paradigm™ Gocad® modelling engine. Gocad® is the world's most advanced 3D geological modelling system, a full generation ahead of conventional mining industry technology.



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