

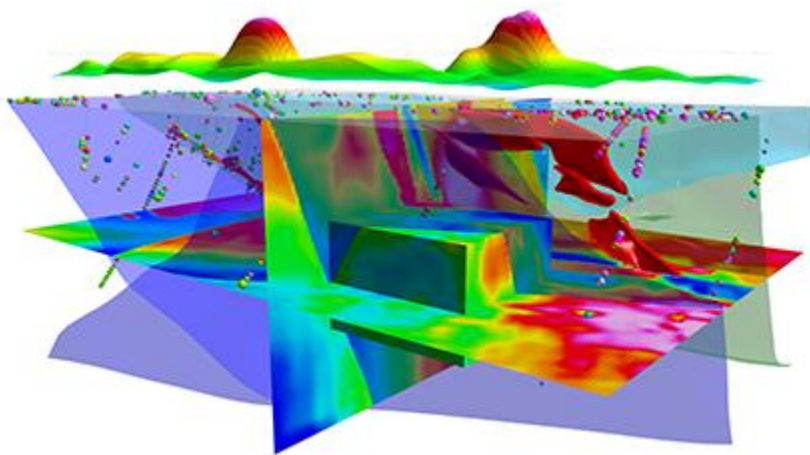


**Mira Geoscience**  
...modelling the earth

## GOCAD® Mining Suite – Geotechnical Modelling Package

GOCAD Mining Suite is the industry-leading platform for 3D integrated modelling of geological, geophysical, geochemical, structural, and geotechnical data. It specializes in the modelling of challenging environments within the realms of exploration, resource assessment, mine sites, and geotechnical modelling. It is the leader in 3D geological and structural modelling; excelling where drillhole control is minimal or non-existent, as well as in geologically-based 3D geophysical modelling and inversion, complex stratigraphic and fault modelling, geotechnical rock mass modelling and hazard assessment.

**Use *all* of your data, *all* of the time**



GOCAD Mining Suite is configured into packages specific to the minerals exploration and mining industry. The packages are designed to suit the specific requirements of geologists, geochemists, geophysicists, structural geologists, and geotechnical engineers. They are designed for integrated 3D model-building across all commodity types and geological environments, leveraging the core ability to import, create, and integrate objects of all types in a single environment. It is a true 3D GIS, where both vector objects (points, curves, and surfaces) and raster objects (grids/voxets) can be built, imported, edited, queried, and visualized. This Common Earth Modelling platform allows technicians, geoscientists, engineers, and managers to develop, share, and collaborate on data, information, and models regardless of their respective discipline.

*“I’ve had a chance to use SKUA (Implicit Modelling) on an active project and compare the results with conventional modelling. Generally, I’ve found most software looks good in the packaging and produces rather underwhelming results – SKUA was completely the opposite, I’m completely gobsmacked with how well it created an extensive, realistic regional model with a few scraps of a priori information.”*

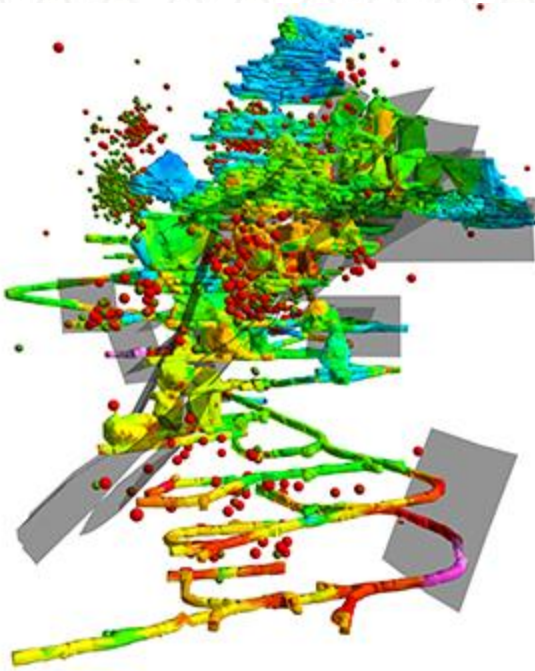
*-Adam Woolridge, Director  
– Xpotential Geoscientific Consulting*

*We have a package configured for your needs:*

Role	Geoscience Exploration Package	Advanced Interpretation Package	Geotechnical Modelling Package	Integrated Modelling Package	Advanced Geophysics Package	Stratigraphic Modelling Package
Technician	✓					
GIS Technician	✓					
Geomodeller	✓	✓				
Geochemist		✓		✓		
Geologist	✓	✓				✓
Geophysicist					✓	✓
Structural Geologist		✓		✓		✓
Resource Geologist		✓		✓		✓
Geological Engineer			✓			
Geotechnical Engineer			✓			

# Geotechnical Modelling Package

Users: Geotechnical Engineers, Geological Engineers, Ground Control Engineers



Integrates disparate data sources into a single integrated 3D model in active mining applications for geotechnical modelling and hazard identification. Includes the full capability of the Advanced Interpretation Package plus specific functionality for complex querying, targeting, and 3D identification of geotechnical hazards.

**GOCAD 3D Mining Viewer + Foundation Modelling Module**  
**Multi-Core Support for Foundation Modelling Module**  
**Maps, Cross-Sections, and Log Display Module**  
**Mining Utilities Module**  
**3D-GIS Module**  
**Well Correlation and Stratigraphic Analysis Module**  
**Interpretation Modelling Module**  
**Velocity Modelling and Time-to-Depth Conversion Module**  
**+**  
**Geotech Module**

- *Geotechnical hazard estimation, identification, and monitoring.*
- *Import and include disparate active mine data into 3D integrated models.*

## **Targeting Workflow Module**

- *Geohazard identification using point, curve, region, surface, and grid/voxel data types.*
- *Combination, inclusion or exception and proximity-based querying.*
- *Knowledge-driven, data-driven approach or integrated machine-learning results.*
- *3D visual reference, reporting, and auditable workflow.*