

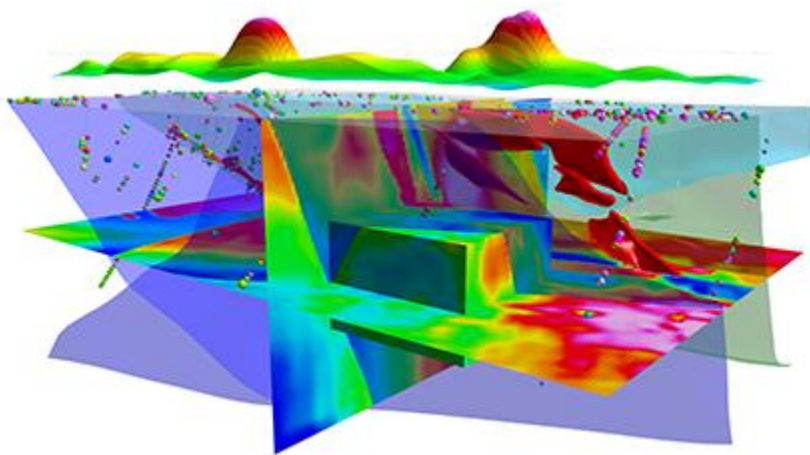


Mira Geoscience
...modelling the earth

GOCAD® Mining Suite – Integrated 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.”

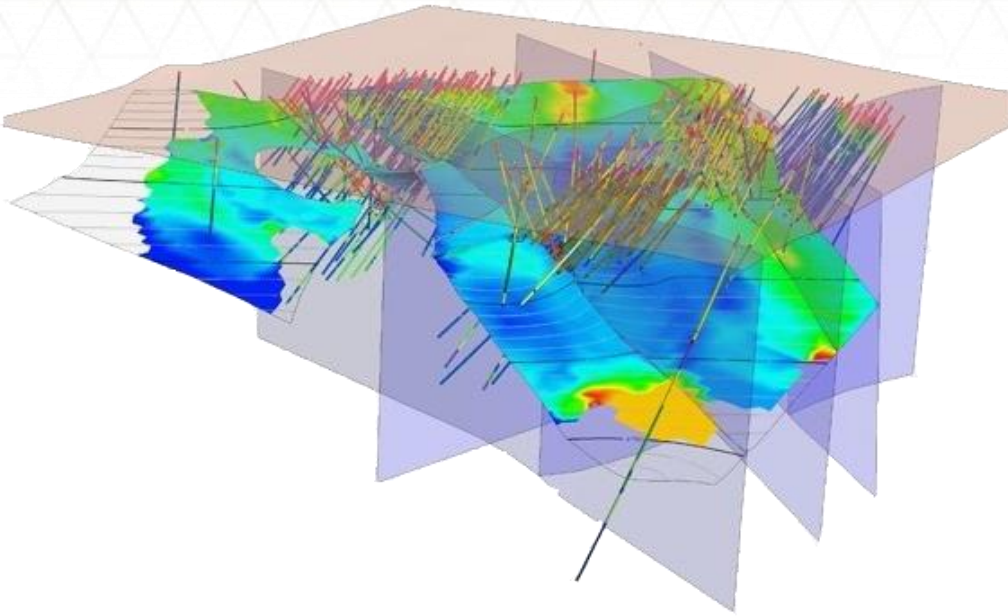
*-Adam Woolridge, Director
– Xpotential Geoscientific Consulting*

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			✓			

Integrated Modelling Package

Users: Interpretation Geologists, Structural Geologists, Geochemists



Packaged for integrated modelling work on projects at deposit, project or regional scale. Includes the full capability of the Advanced Interpretation Package and adds an implicit fault network builder and specific functionality for leveraging multi-disciplinary data with variable, sparse or discontinuous spatial coverage for integrated 3D mineral potential modelling and targeting. Faulted horizons can be implicitly modelled, and updated or adjusted using a vast array of explicit editing/creation tools in 3D or 2D cross-sections. Adding the optional ioGAS-GOCAD Mining Suite Link presents the ideal configuration for querying, interrogating, visualizing, and targeting geochemical and alteration signatures.

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
+
SKUA Structure with Multi-Core Processing Module

- *Implicit modeling of complex fault networks and stratigraphic horizons with or without drillhole data.*
- *Allows overturned folds as well as reverse and dying faults.*
- *Works in tandem with a stratigraphic column and includes depositional relationships between formations.*
- *Leverages multi-core processing capability for rapid processing.*

Targeting Workflow Module

- *3D mineral potential targeting 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.*

Sparse

- *Quickly build 3D surfaces from sparse datasets.*
- *Quickly build 3D geology models from surface data only.*
- *3D Structural Fields Interpolator supporting bedding and foliation data.*
- *Parametric interpolators: NURBS, Bezier, Hybrid.*