



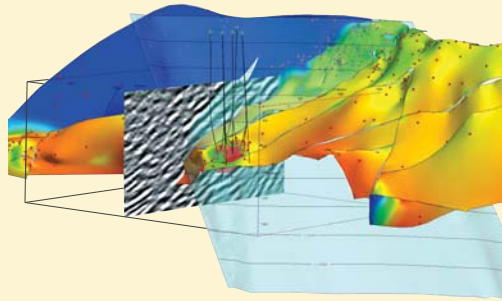
GOCAD Mining Suite Base Module

Earth Modelling and 3D-GIS Solutions for Mineral Exploration

Summary

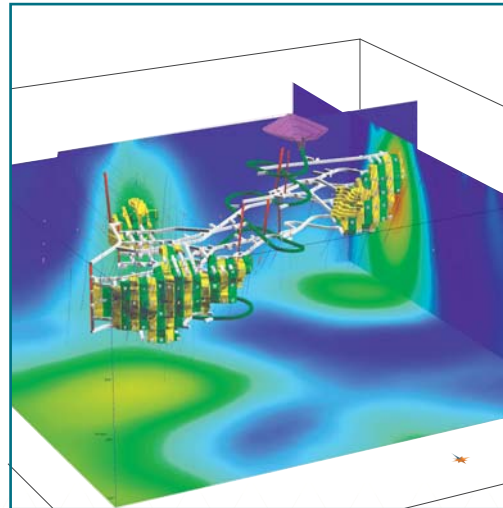
GOCAD® Mining Suite Base Module provides a complete earth modelling and 3D-GIS solution for the mining industry. It is designed to build and query integrated exploration models for drillhole targeting. From data import to exploration drillhole design, geoscientists from all disciplines can manage their exploration program from one central software application.

GOCAD® Mining Suite Base Module is an extension of Paradigm™ GOCAD®, the world's most sophisticated geological modelling platform, adapted specifically for the mining industry and available exclusively from Mira Geoscience.



This industry-leading earth modelling application has been designed from the ground up to rapidly construct integrated multi-disciplinary 3D earth models.

- » Geological, geochemical and geophysical data can be imported from standard mining industry formats.
- » Interpretation is done through advanced 2D/3D visualization and GIS-based queries.
- » Models are built in both vector and raster formats.
- » Surfaces are modelled rapidly with seamless transition to block model format.
- » Model updating is carried out directly in 3D.
- » Data are mapped from one object type to another via several projection and interpolation methods.
- » Drillhole targets generated from multiple data sources can be identified and ranked based on 3D-GIS queries.
- » The drillhole designer toolkit provides key functionalities to plan straight and deviated boreholes.



A wide variety of plug-ins developed by Paradigm™ and Mira Geoscience can be added to the GOCAD® Mining Suite Base Module. This offers the flexibility to tailor a software solution to match your company's specific needs.

Key Features

Earth Modelling

- » Advanced wireframing tools for the most complex geological surfaces
- » Powerful interactive mesh editing tools
- » 3D block model building
- » 3D deformed and faulted stratigraphic grid building
- » True 3D topological modelling
- » Rapid model updating directly in 3D
- » Unique geometrical interpolation engine

Property Modelling

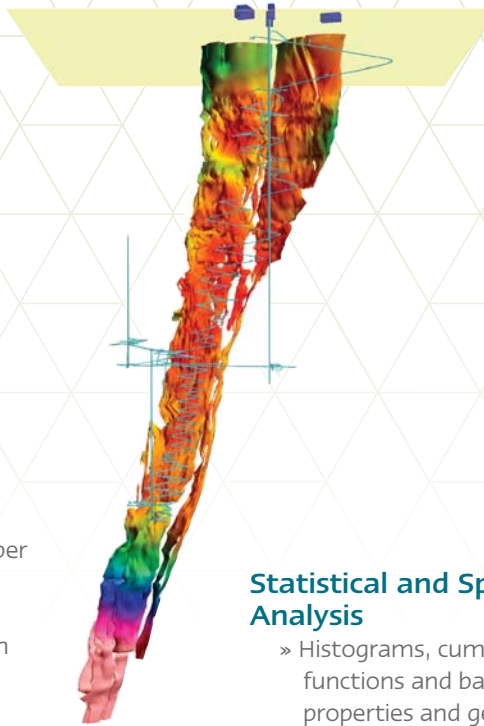
- » All object types can host an unlimited number of scalar and vector properties (attributes)
- » Seamless transfer of properties between object types via projection and interpolation
- » Advanced 2D/3D inverse distance interpolation on surfaces and grid objects
- » Distance map computations between objects

3D-GIS Query Capabilities

- » Support for property, proximity, shell, meta-data, special features and intersection queries
- » Spreadsheet editable display of data dynamically linked with the 3D camera
- » Meta-data editor

Import/Export

- » ASCII column files
- » AutoCAD DXF files
- » Datamine ASCII and Binary files
- » ESRI SHP and ASCII grid files
- » Gemcom 3DR and TRI files
- » Geosoft GRD, GDB, GXF and XYZ files
- » MapInfo TAB files
- » Map3D INP files
- » OLEDB Drillhole Database
- » SEG-Y files
- » Surpac string and surface files
- » Crone PEM files
- » Maxwell PTE and PTS files
- » UBC-GIF files
- » Registered and raster images



Statistical and Spatial Correlation Analysis

- » Histograms, cumulative distribution functions and basic statistics on object properties and geometry
- » 2D and 3D cross-plots with multi-variate statistics
- » Link between the cross-plot space and the 3D camera
- » 1D, 2D and 3D variogram computation and modelling environment

Drillhole Design

- » Straight hole from collar location
- » Deviated hole from collar and lift and swing parameters
- » Straight/Deviated drillhole from collar to target (automated)
- » Straight/Deviated drillhole from target to surface (automated)
- » Real-time manual drillhole designer

Information Sharing

- » Export 3D pdf files of GOCAD® Mining Suite objects and scenes using unique PDF-3D® technology
- » Compatible with Acrobat Reader® version 8 and higher
- » Export GOCAD® triangulated surfaces to VRML file format

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Mira Geoscience
...modelling the earth