



netmine

Mining Solutions



NETPROMine Geological Modeling – Core Module

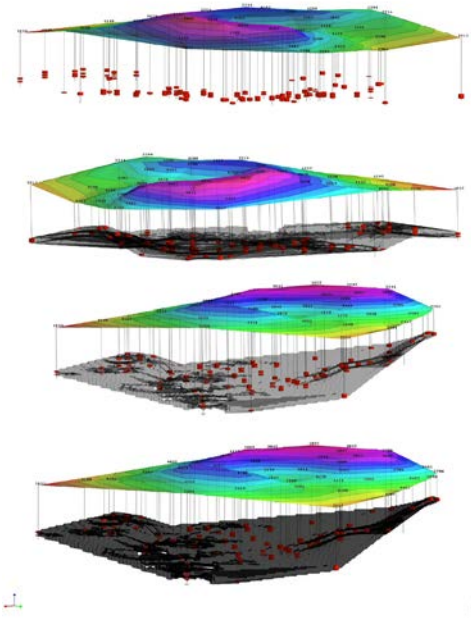
NETPROMine Geological Modeling product is an essential component that should be present in every installation of NETPROMine.

This important component includes exploration, surveying, solid modeling and resource estimation solutions.

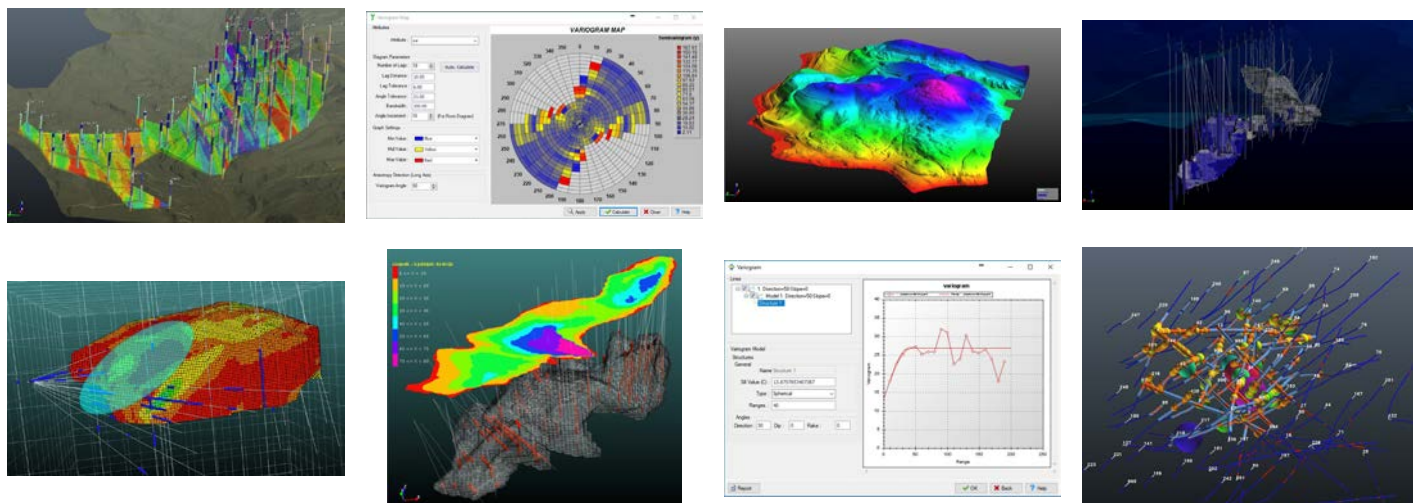
NETPROMine offers powerful tools to manage and analyze projects using the visualization, drilling management, surface, solid and block modeling tools, statistics and geostatistics functions needed for an advanced exploration and resource estimation project.

KEY FEATURES

- ✔ 64 bit architecture
- ✔ Project database support (*.mdb, *.SQLite)
- ✔ Easy to use interface
- ✔ **Multi-language** support (English, Russian, Turkish)
- ✔ Fast and flexible **data transfer**
- ✔ Advanced **3D visualization screen**, different stereo and display types
- ✔ Working with different windows at the same time on dual monitors
- ✔ **3D navigation**
- ✔ Instant data filtering with optional hiding of excluded records
- ✔ Creation, verification and management of **borehole databases**
- ✔ Ability to add borehole data manually
- ✔ Ability to work with **oriented drills**
- ✔ Assign diameter, lithology color and pattern to boreholes
- ✔ Advanced tools for borehole reporting, grouping, merging, filtering, updating
- ✔ Basic **grid and contouring** functions
- ✔ Statistical summaries, graphs and reports for basic exploration and data analysis
- ✔ **Cross-section** drawing and editing tools
- ✔ **Automatic cross section** generation from selected boreholes
- ✔ **3D sectioning**, dynamic transition between sections
- ✔ Able to watch interactively by dividing the project screen into different windows
- ✔ Advanced drawing and point snapping tools
- ✔ General **measurement** and **query tools**
- ✔ Different navigation, **2D screen locking** and **camera stabilization options**
- ✔ **Labeling tools**
- ✔ **Lidar point cloud** (*.las, *.laz) importing support
- ✔ Options for **simplifying, classifying, coloring point cloud data**
- ✔ Ability to produce surfaces from point cloud data



- ✔ Defining **transparency** to project data
- ✔ User-defined, advanced **thematic** displays
- ✔ Comprehensive **statistical graphics** and **reporting** options on analysis results
- ✔ Ability to **add fault** measurements using a template file or manually
- ✔ **Surface creation, editing, visualization and analysis tools**
 - ✔ Ability to produce **surfaces** from points, lines, multiple lines
 - ✔ Ability to produce surface from **seam/vein** definitions
 - ✔ **Elevation editing, adding triangle, adding point, rotating triangle, simplifying**
 - ✔ **Arithmetic** operations between surfaces
Surface **elevation visualization**
 - ✔ **Raster draping** on the surface
 - ✔ Generating a **contour lines**
 - ✔ Slope / slope direction **trend analysis** over the surface
 - ✔ Adding **faults** to the surface
 - ✔ Ability to cut selected surfaces **inside or outside the boundary**
 - ✔ Automatic generation of **intersection boundaries for intersecting surfaces**
 - ✔ Area **draping** on the surface
 - ✔ Surface **merging**
 - ✔ Converting underground **gallery profiles** into surfaces
 - ✔ **Convert** produced surfaces to *.dxf, *.dwg file
- ✔ **Solid model** creation tools
 - ✔ Create a solid model between **surfaces**
 - ✔ Create a solid model using **cross sections**
 - ✔ Create solid model from **block model attribute values**
 - ✔ Create the outer shell using **ground point cloud data**



- ✓ Ability to produce **sub-block** or **normal blocks** in different combinations
- ✓ **Rotating the block** axes by entering an angle in X, Y, Z directions
- ✓ Advanced **geostatistical tools**
 - ✓ **Inverse Distance**
 - ✓ **Kriging**
 - ✓ **CoKriging**
 - ✓ **Indicator Kriging**
 - ✓ **Nearest Neighbor**
 - ✓ **Kriging Postprocessing**
 - ✓ **Convert Distribution Function**
 - ✓ **Sgsim** (Sequential Gaussian Simulation)
 - ✓ **Sisim** (Sequential Indicator Simulation)
 - ✓ **Simulation Postprocessing**
 - ✓ **Cross Validation**
 - ✓ **Histogram Graph**
- ✓ Support for **geostatistical modeling** variations
 - ✓ **Multiple estimation** studies
 - ✓ **Point view** of the block model
 - ✓ Option to add **search ellipsoid**
 - ✓ Anisotropy detection with **Variogram Map**
 - ✓ **Block filtering** using surface, solid model, polygon, attribute, elevation
 - ✓ Use of filtered **blocks by separating** them
 - ✓ Ability to perform geostatistical operations **only on filtered blocks**
 - ✓ Block **attribute editing** operations
 - ✓ Block model **histogram chart**
- ✓ **Block model reporting options**
 - ✓ Block **report**
 - ✓ Block **list report** (block *.csv export)
 - ✓ **Tenor – Tonnage curve**
 - ✓ **Grouped** block report
 - ✓ **3D print** screen
 - ✓ Easy to use, technical support platform.

KEY BENEFITS

- ✓ Full support for **Unicode multilinguals** and extended characters
- ✓ **Fast and accurate** transfer of all borehole datas
- ✓ Monitor sampling **accuracy and precision**
- ✓ Combine data from **complex data** sources into a **secure project database**
- ✓ Logically constructed, editable toolbars that provide quick access to all tools
- ✓ Manual, automatic **cross-section** creation with interactive section tools and editing tools
- ✓ Flexible use with almost unlimited **undo and redo** features
- ✓ Adjustable **high performance** options
- ✓ Maintain **accuracy and consistency** among project team members
- ✓ Spatial organization tools for basic geological interpretation and basic engineering design
- ✓ Link windows for fast spatial comparison and navigation in multiple linked windows
- ✓ Advanced **block modeling**, validation and reporting tools
- ✓ Easy to use 3D for effortless visualization of project data
- ✓ Meet advanced operators for **surface modeling, editing and analysis**
- ✓ Freeform drawing flexibility. Advanced **drawing and query** tools to control entering specific distances, directions and positions
- ✓ Flexible options for **cut – fill** calculations and **volume calculations between two surfaces**
- ✓ Interactive tools that facilitate **geostatistical modeling** and verification
- ✓ Ability to **import and export** data from different mining software
- ✓ Flexible tools for converting **surfaces and cross sections** to **solid models**



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