

STRATEGIC RESOURCE MODELING

Automate and accelerate the data consumption and resource modeling process. Generate consistent, 3D resource models based on geoscientific best practices. Facilitate data consumption, modeling and interrogation to test geological hypotheses and conduct a resource evaluation and risks assessment, based on sensitivity analysis.

INPUT: Updated geological model

- 1 Import & manage geological model
- 2 Visualize & analyze geological model
- 3 Predict mineral resources
- 4 Perform sensitivity analysis
- 5 Share block model & collaborate with team

OUTPUT: Updated block model



Strategic Resource Modeling

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IMPORT & MANAGE GEOLOGICAL MODEL

SOLUTION CAPABILITIES

- ✓ Integrated, secure and centralized single source of geoscience data
- ✓ Data Management unites best practices using semantic searches and intellectual assets to catalogue data
- ✓ Structured collaboration within a connected data environment to provide invisible governance for all stakeholders building information from any viewpoint
- ✓ Quality control and assurance of assets through interactive 3D markup and issue management
- ✓ Schedule and optimize projects to meet milestones through integrated governance workflow controls
- ✓ "Big data" native platform to enable advanced analytics and drive data-based decisions

CUSTOMER BENEFITS

- ↑ Data Confidence
- ↑ User Knowledge and Understanding
- ↑ Process Efficiency and Consistency
- ↑ Collaboration
- ↑ Governance and Compliance
- ↑ Visibility

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VISUALIZE & ANALYZE GEOLOGICAL MODEL

SOLUTION CAPABILITIES

- ✓ Integrated, secure and centralized single source of geoscience data
- ✓ Collaborative review and discussion of domain selection and issue resolution using interactive 3D markup and issue management
- ✓ Concerted business intelligence and analytical tools for validating domains, charting and continuity of parameters
- ✓ Schedule and optimize projects to meet milestones through integrated governance workflow controls
- ✓ Contextualize geoscience data in multi-dimensional representation

CUSTOMER BENEFITS

- ↑ Data Confidence
- ↑ User Knowledge and Understanding
- ↑ Process Efficiency and Consistency
- ↑ Collaboration
- ↑ Governance and Compliance
- ↑ Visibility

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PREDICT MINERAL RESOURCES

SOLUTION CAPABILITIES

- ✓ Integrated, secure and centralized single source of geoscience data
- ✓ Concerted business intelligence and analytical tools for validating, tabulating and sharing block model data.
 - Grade, volume, tonnage summary per level, and material type of resources model can be dynamically selected, quantified, and visualized simultaneously
- ✓ Automate routine processes including parameter optimization (e.g. kriging neighborhood analysis)
- ✓ Schedule and optimize projects to meet milestones through integrated governance workflow controls
- ✓ Knowledge graph technology to consolidate all geoscience data behind out-of-the-box applications

CUSTOMER BENEFITS

- ↑ Data Confidence
- ↑ User Knowledge and Understanding
- ↓ Time to Analyze
- ↑ Accuracy
- ↑ Automation
- ↑ Governance and Compliance

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PERFORM SENSITIVITY ANALYSIS

SOLUTION CAPABILITIES

- ✓ Integrated, secure and centralized single source of geoscience data
- ✓ Run “what-if” scenarios to compare model outputs using different estimation methods and parameters
 - ┆ Automate sensitivity processes (e.g. change/effect resource cut-off grades)
 - ┆ Automate and configure different estimation methods (e.g. recoverable resources)
- ✓ Schedule and optimize projects to meet milestones through integrated governance workflow controls
- ✓ Enables advanced analytics and drives data-based decisions
- ✓ Leverage data from both virtual and real worlds and consolidate them in a unique referential of information

CUSTOMER BENEFITS

- ↑ Data Confidence
- ↑ User Knowledge and Understanding
- ↓ Risk
- ↑ Collaboration
- ↑ Automation
- ↑ Governance and Compliance

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SHARE BLOCK MODEL & COLLABORATE WITH TEAM

SOLUTION CAPABILITIES

- ✓ Integrated, secure and centralized single source of geoscience data
- ✓ Connecting users with the right data at the right time to review resource assets, risk and opportunities and provide input
- ✓ Publish content to digital communities to exchange knowledge and ideas with relevant stakeholders
- ✓ Enhance collaboration with visualization of 3D models with instinctive functions and tools (to annotate, section, comment, share and publish data)
- ✓ Visualize the block model in virtual reality
- ✓ Make data-driven decisions and manage business processes in a unique collaborative environment

CUSTOMER BENEFITS

- ↑ Customer Knowledge and Understanding
- ↑ Visibility
- ↓ Review and Approvals Time
- ↓ Rework
- ↑ Collaboration
- ↑ Unified User Experience

<https://discover.3ds.com/strategic-resource-modeling>

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