

# STUDIO RM

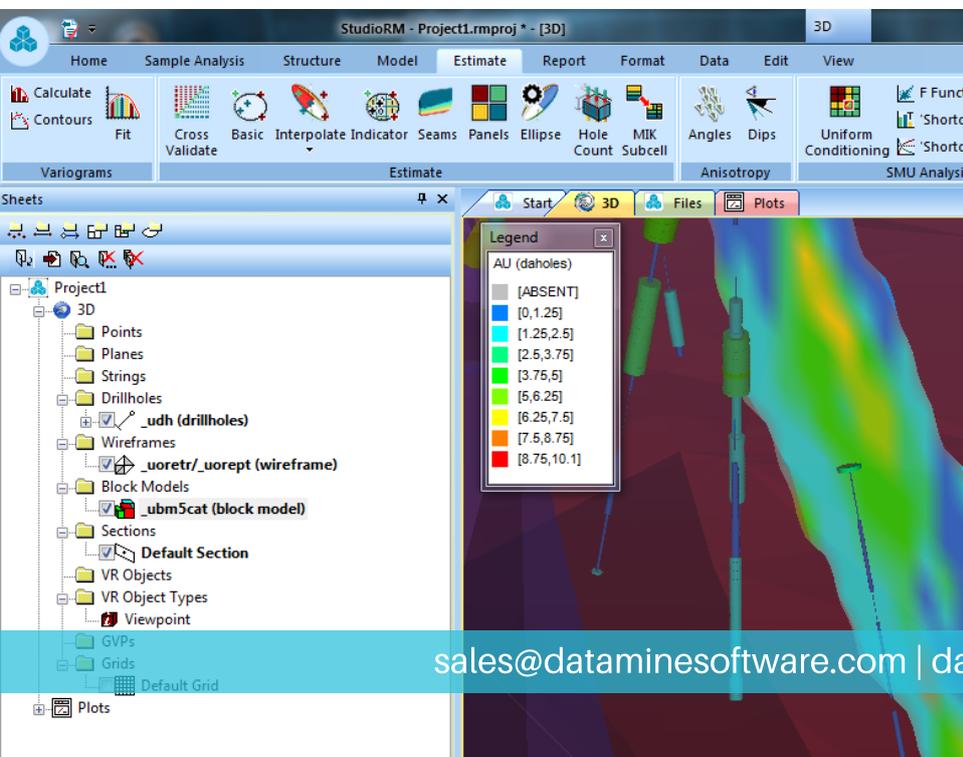
## THE WORLD'S LEADING RESOURCE & RESERVE SOLUTION

### INTRODUCTION

Studio RM is the only software that has been specifically designed to match the workflow of resource and reserve evaluation.

Under the hood, Studio RM contains the world's most trusted algorithms and sophisticated geostatistical techniques, made accessible by a streamlined, intuitive user interface.

Studio RM delivers auditable, repeatable processes to reliably produce resource and reserve statements according to the standards demanded by the JORC, SAMREC, NI 43-101 and Guide 7 reporting codes.



### WHO USES STUDIO RM?

- Resource Geologists
- Geostatisticians
- Project Geologists

## KEY BENEFITS

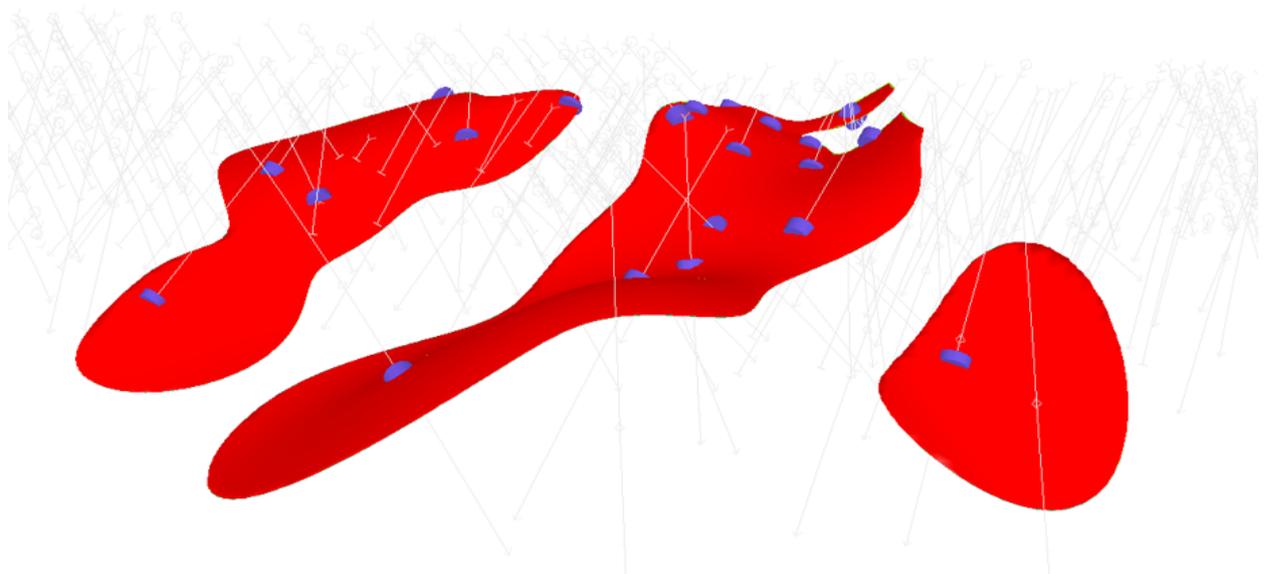
- **Accuracy** - produce resource and reserve models that accurately represent geology, structure, mineralisation and grade.
- **Attribute support** - include costs and engineering factors within multi-parametric models to represent mining reserves.
- **Automation** - update models and reports using consistent rules and methodologies as new data becomes available. Save time and reduce errors by easily capturing and automating pieces of workflow to reliably carry out repetitive tasks.
- **Integration** - derive value from all your data sources in one place with our comprehensive read and write capability.
- **Communication** - publish to Summit for secure storage and viewing in 3D online, or save data as 3D pdf files that can be viewed on any device with a pdf viewer.

## WHEN DETAILS MATTER

Delivering reliable estimates of resources and reserves to modern listing standards is not trivial. Studio RM is packed with functionality to handle any deposit type and modelling scenario, yet its interface and workflow, tailored to the resource geologist, removes the need for extensive training or years of experience to get familiar with a tool-box style system.

## FEATURE HIGHLIGHTS

- Handle complex data sets including drillhole samples, channel samples, face maps, laser and image processed 3D models.
- Superior geostatistical capabilities including dynamic anisotropy and orebody unfolding to deal with post mineralisation orebody distortion.
- Conditional simulation tools to quantify geological risk.
- Uniform conditioning to optimize the accuracy of the predicted recoverable resource estimates from sparse data.
- Surfacing and modelling tools that help define the structural geology quickly and accurately.
- Geotechnical modelling that provides a detailed understanding of ground stability.
- Sophisticated block modelling with comprehensive sub-celling to accurately represent grade and structure.
- Turn wireframe models into cell and sub-cell models in a single pass enabling structure and grade within orebodies to be modelled in as much detail as the data permits.
- Multi-parametric modelling capabilities that model geometallurgical and geotechnical parameters in addition to grade
- A Mineable Reserves Optimizer to rapidly convert a geological resource into a mineable reserve



## STUDIO RM Version 1.4

Version 1.4 is one of Datamine's largest ever software upgrades and delivers significant improvements in functionality and performance. It is packed with new features and enhancements.

### FEATURE HIGHLIGHTS

- **Advanced Geostatistics** – Additions to analyse multivariate statistics, uniform conditioning, conditional simulation and more.
- **3D Variogram Window** - Interactively explore the anisotropic nature of a deposit; use the auto fit option to detect orientations, dynamically change the lag, block size and continuity legend.
- **Kriging Neighbourhood Analysis (KNA)** – Interactively recall and compare alternative KNA scenarios to identify the most appropriate parameters for grade estimation.
- **Estimation** – Deal more effectively with poor quality variograms by transforming to normal scores. Validate your estimation with improved output and interactive interrogation of samples that contributed to block values.
- **Interactive Sample Lithology Grouping & Editing** – Classify domains and mining units from lithology values in drillhole sample data.
- **Vein Modelling Command** – Automatically model veins from samples with control over inter-sample surface/continuity, uncertainty of data and edge treatment.
- **Drillhole Visualisation in 3D View** - Improved display of downhole images, histograms, line graphs, bitmaps, angle graphs, levels and other data formats in the 3D window alongside each drillhole.
- **Point Cloud Reconstruction** - Reconstruct surfaces from point data generated by drones, LIDAR, CMS and other automated survey tools.
- **RGB Colour Support** - Imported RGB information can be used to format data points using original colour codes.
- **Cut & Fill Functionality** - Model and evaluate cut and fill volumes.
- **Contour Creation Commands** – Model elevations, grades or geological surfaces by interactively creating grids and contours from point or drillhole data.
- **System Improvements** – Extended undo/redo support and up to 24 characters for field names in Datamine files.
- **Refactored Editing Commands** - Performance enhancements and additional features that increase speed and functionality of many string editing commands.
- **Technical Preview of Implicit Structural Modelling** - Access some in-development commands.

## BOOK A DEMO

To book a free demo of Studio RM, contact your local Datamine office.

## GLOBAL OFFICES

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