



isatis.neo
GEOSTATISTICS MADE ACCESSIBLE

Mining
edition



The full power
of geostatistics
within your reach

Isatis.neo Mining Edition is a smart and powerful software solution for resource estimation and comprehensive geostatistical studies. Featuring an intuitive user interface, it results from Geovariances' dual commitment to developing breakthrough technology and making first-class geostatistics accessible to more resource teams.

Isatis.neo Mining Edition meets the fundamental resource team requirements. The software enables **thorough data analysis and visualization, complex geological and geometallurgical analysis, in-situ and recoverable resource estimation.** It allows you to carry out **extensive uncertainty and risk analyses** that improve your decision-making process.

Building workflows is smooth with Isatis.neo Mining Edition and makes it a scalable software solution that can be shared between headquarters and mine sites, geostatisticians, resource managers and geologists, consultants, and their clients.

Isatis.neo Mining is part of the **Isatis.neo software product line.**

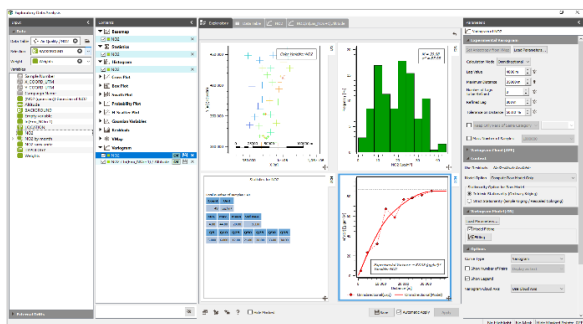
Why Isatis.neo?

- It is designed for **the highest performance**, with an intuitive user interface for ease of use and cutting-edge parallelized algorithms.
- Users **quickly get to grips** with software's use.
- **Workflows can be created and adjusted** to each company's specific processes and automated to streamline teams' daily tasks.
- Geovariances' 35-year expertise in geostatistics-based software development in partnership with the Centre of Geostatistics from the French School of Mines ensures a **robust, reliable and innovative software solution.**

ISATIS.NEO KEY FEATURES

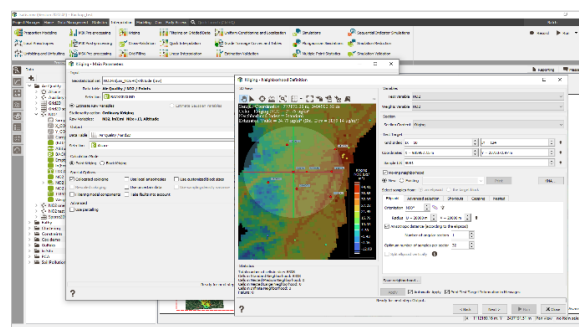
- Integrated and powerful application for Exploratory Data Analysis in univariate and multivariate contexts.
- Automatic sample clustering for the definition of geological and geometallurgical domains/units.
- Built-in tools for drill hole compositing, data declustering, PCA, MAF, PPMT, KNA, cross-validation, local varying anisotropies, grade capping, model sub-blocking, unfolding.
- Classical interpolation methods (nearest neighbor, inverse distance, moving average, moving median).
- Industry-standard estimation methods (point, block, on subblocks, simple, ordinary, universal, multivariate, spline, linear kriging, kriging with external drift).
- Advanced estimation methods (rescaled cokriging, kriging with uncertain data, faults, filtering model components, Mixed Support Kriging, using local parameters, using Sampling Density Variance).
- Estimation validation.
- Conditional simulations (SGS, TB, Direct Block Simulations, SPDE, Cox). Genuine simulation post-processing for robust uncertainty and risk analysis. Simulation reduction.
- Sequential Indicator Simulations, Plurigaussian Simulations, Multiple-point Statistics for complex deposit geology modeling.
- Simulation validation.
- Uniform Conditioning, LMUC, MIK.
- Grade-tonnage curves.
- Python functionalities and coding.
- Great interoperability.

FULLY EXPLORE YOUR DATA



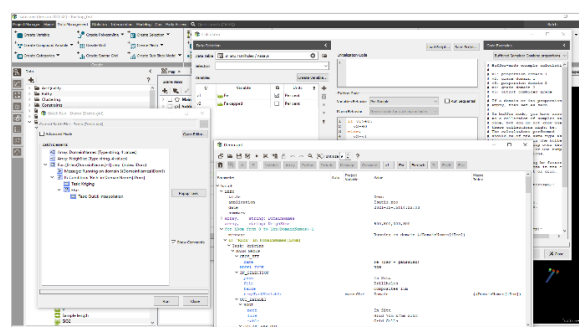
An integrated and user-friendly application for Exploratory Data Analysis enables the fast computation and display of various statistics (i.e., histograms, box plots, cross-plots, swath-plots, probability plots, H-scatter plots), variograms, Gaussian anamorphosis, just by simple drag and drop of variables. All the inputs users need for kriging or simulation (variogram models, stationarity options, anamorphosis function) are stored in a single dedicated object. It guarantees consistency and makes further parameter setting more straightforward.

QUICKLY GET RELIABLE ESTIMATES



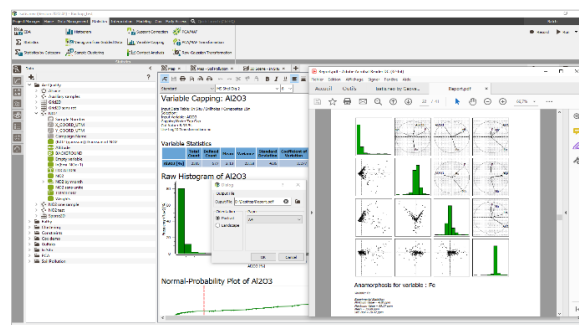
Kriging options are grouped into one dialog box and selected with a mouse click, simplifying the settings choices. Systematic naming of output variables, based on a pre- or user-defined convention, saves users' time and ensures name consistency across different models.

CUSTOMIZE AND AUTOMATE YOUR WORKFLOWS



Workflows can easily be recorded in batch files and run interactively or automatically when new data comes in. They can also be used to test different scenarios quickly. Batch files also provide perfect support to keep full track of processes for auditing purposes. Combined with Python coding functionalities (with access to a wide range of Python libraries), it gives Isatis.neo almost infinite capabilities.

QUICKLY PRODUCE YOUR STUDY REPORTS



An integrated word processor facilitates reporting. The tool allows users to copy views, graphics, and message contents to a report as the project progresses. Users can then edit texts to their needs and export the report in pdf or odt format.