



isatis.neo
GEOSTATISTICS MADE ACCESSIBLE

Standard
edition



Afraid to get into
geostatistics?

What if a new
software solution
made the
experience easier?

Isatis.neo is a smart and powerful software solution in geostatistics. Featuring an intuitive user interface, it results from Geovariances' dual commitment to developing breakthrough technology and making first-class geostatistics accessible to more users.

Designed for every business dealing with spatialized data, **Isatis.neo exceeds industry standards in geostatistics.** The software enables thorough data analysis and visualization, produces high-quality maps and models and allows you to carry out extensive uncertainty and risk analyses that optimize your decision-making process.

Available in a Standard Edition, Isatis.neo is also offered in two special versions, Petroleum Edition and Mining Edition, to meet these two industries' specific requirements better. In addition to business-oriented tools, the Petroleum version offers a preconfigured workflow for an optimized way to tackle classical, although challenging issues: **Depth Conversion and Volumetrics** with comprehensive uncertainty analysis for the Petroleum Edition.

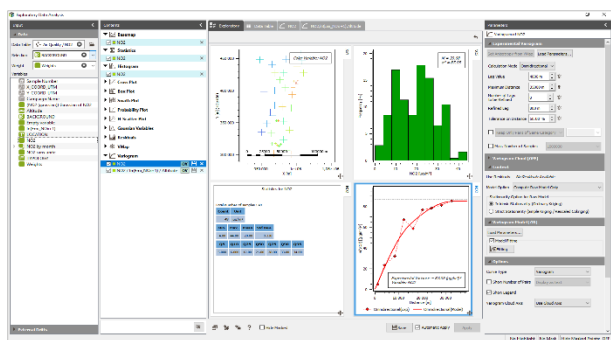
Why Isatis.neo?

- 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 the 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 French Mining School of Paris ensures a **robust and reliable software solution.**

ISATIS.NEO KEY FEATURES

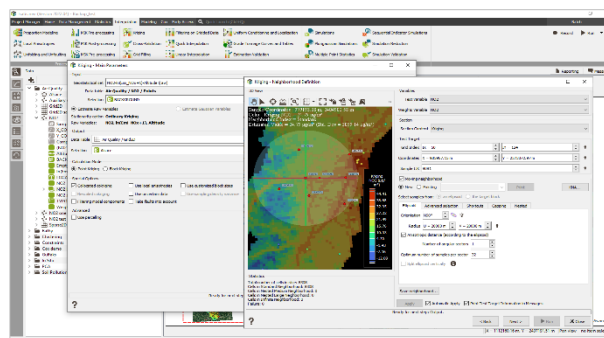
- Integrated and powerful application for Exploratory Data Analysis in univariate and multivariate contexts.
- Automatic sample clustering for the definition of homogeneous geological facies classes. Border analysis.
- Built-in tools for drill hole compositing, data declustering, PCA, MAF, PPMT, KNA, cross-validation, local varying anisotropies, variable capping, 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, conditional expectation).
- Conditional and non-conditional simulations (SGS, TBS, Direct Block Simulations, SPDE, Cox). Simulation reduction. Genuine simulation post-processing for robust uncertainty and risk analysis.
- Sequential Indicator Simulations, Plurigaussian Simulations, Multiple-point Statistics for modeling subsurface, reservoir, or orebody geology.
- Estimation validation / Simulation validation.
- Uniform Conditioning, LMUC, MIK.
- Python functionalities and coding.
- Great interoperability.

FULLY EXPLORE YOUR DATA



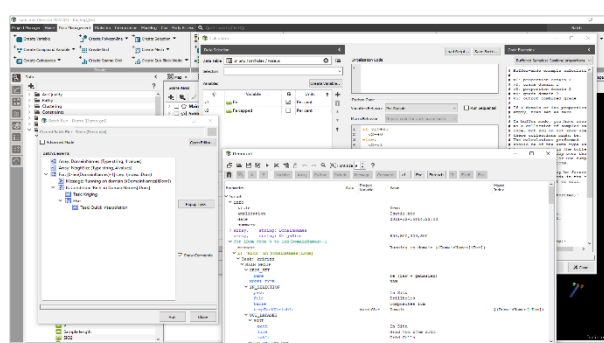
An integrated and user-friendly application for Exploratory Data Analysis enables the fast computation and display of various statistics (i.e., histograms, box plots, cross-plots, swath-plots, probability plots, H-scatter plots), variograms, Gaussian anamorphosis, just by simple drag and drop of variables. 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



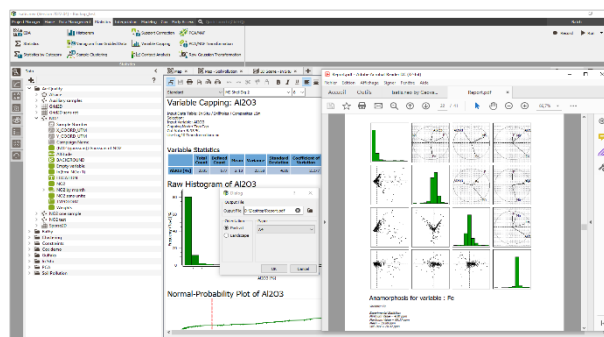
Kriging options are grouped into one dialog box and selected with a mouse click, simplifying the settings choices. Systematic naming of output variables, based on a pre- or user-defined convention, saves users' time and ensures name consistency across different models.

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 format.