Isatis.neo Petroleum Edition is Geovariances’ new software generation in geostatistics dedicated to the Oil & Gas industry. We have developed it with only one objective in mind, to provide our customers with all the geostatistics they’re used to finding in our flagship product Isatis in a much smarter software solution. The goal is met. With its innovative and intuitive user interface, Isatis.neo puts the full power of geostatistics within your reach.

Isatis.neo Petroleum Edition meets the fundamental geomodeler’s requirements. The software enables thorough data analysis and visualization, high-quality horizon mapping, and robust reservoir characterization. It allows you to carry out extensive uncertainty and risk analyses that improve your decision-making process. It also offers a preconfigured workflow for time-to-depth conversion, automatic trap and associated spill points identification, volumetrics, and uncertainty quantification all along the process.

Building workflows is smooth with Isatis.neo Petroleum Edition and makes it a scalable software solution.

It is part of the Isatis.neo software product line.

Afraid to get into geostatistics?
What if a new software solution made the experience easier?

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

For more information or to request a demo, visit www.geovariances.com
**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
- Built-in tools for data declustering, Kriging Neighborhood Analysis, cross-validation, local varying anisotropies, variable capping, unfolding
- Industry-standard estimation methods (point, block, simple, ordinary, universal, multivariate, spline, linear kriging, kriging with external drift, with variance of measurement error, MIK) and interpolation methods (nearest neighbor, inverse distance, moving average, moving median). Estimation validation
- Conditional and non-conditional simulations (SGS, TB and SPDE)
- Genuine simulation post-processing for robust uncertainty and risk analysis
- Plurigaussian simulations and Multiple-point Statistics for modeling complex reservoir geology
- Python functionalities and coding
- Scripting procedures for task automation
- Integrated word processor application for producing technical reports on-the-fly
- Compatibility with the industry file format standards

**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, H-scatter plots), variograms, and 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 single 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.

**AUTOMATE YOUR WORKFLOWS**

Workflows can easily be recorded in batch files and run again 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.

**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.