

CONSULTING SERVICES FOR THE MINING INDUSTRY

- Resource estimation
- Resource classification
- Risk analysis
- Drill hole spacing analysis
- Review of estimation projects

PARTNER WITH US

From geological domain definition to workflow automation, Geovariances brings the best of geostatistical science and real-world mining expertise to your projects. Our team helps you translate data into value – and confidence in every decision.



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Our consultants deliver **reliable, high-impact solutions** built on deep **software expertise** and extensive **industry experience**. Applying **best practices**, they address complex challenges, select the right methods and tools to process data accurately, and build **robust, secure models** that support **confident decision-making**. Experienced in global **reporting standards**, they prepare **independent technical reports** across jurisdictions. **Recognized experts** in their fields, they understand your business, share their knowledge through **international conferences and publications**, and ensure every project reflects the latest **scientific and industry standards**.

OUR CORE CAPABILITIES

Geological Domain Definition with Machine Learning

By combining multivariate geostatistics and machine learning, we deliver **deeper insights that reveal meaningful patterns** in your data.



Mineral Resource Estimation & Classification

We use advanced geostatistics to **interpret and model orebody geology, estimate and classify resources**, and deliver **reliable, reporting-compliant models** that meet global standards.



Recoverable Resource Estimation

Through non-linear geostatistics, we estimate **recoverable tonnage, metal content, and grades above cut-offs**, delivering insight into the **technically and economically extractable potential** of your deposit.



Grade Uncertainty & Risk Analysis

Through conditional simulations, cut-off-based risk analysis, and multivariate modeling, we evaluate **local and global grade uncertainty** to **improve reconciliation** and **make data-driven production decisions**.



Drill-Hole Spacing Analysis

Using simulations, we analyze the impact of drill spacing on **model uncertainty and resource confidence**. You gain **optimized drilling plans, greater classification accuracy**, and **better budget efficiency**.



Optimization of Short- and Long-Term Models

We combine short- and long-term data, including blast-hole information, to extract maximum value from your dataset and deliver **stronger, more consistent resource models**.



WORKFLOW INTEGRATION & AUTOMATION

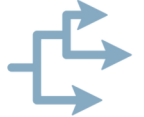
Workflow Customization & Automation

We review your current processes and implement Python-based automation in Isatis.neo. You gain **a workflow fully tuned to your needs, faster model updates and a minimized manual effort.**



Conversion of Estimation Routines

We adapt your existing workflows from Isatis or other software to Isatis.neo using batch and scripting capabilities. **You obtain automated, reproducible routines** fully integrated into your process.



TECHNOLOGY & EXPERTISE COMBINED



ISATIS.NEO

Our consultants work with Geovariances' **Isatis.neo**, the industry's **most comprehensive and advanced geostatistics software** solution. Trusted worldwide for its **scientific excellence and innovative workflows**, Isatis.neo streamlines the entire resource workflow– from data preparation to complex simulations – enabling geoscientists to deliver **accurate, auditable resource estimates and risk-based analyses.**

What our clients say

"Each time, we enjoyed Geovariances' great service and support. Their consultants are very professional and flexible."

— **Eramet**

"Exploring or exploiting a deposit today cannot be optimal without geostatistics. Geovariances has conducted several high-quality studies for Kazzinc."

— **Independant Consultant**

WHO WE ARE

Geovariances is a **global leader in advanced geostatistics** for the mining industry. Since 1986, the company has supported mining organizations worldwide in **improving resource evaluation, reducing geological uncertainty, and making confident, risk-informed decisions**. In partnership with the Center of Geosciences at the Paris School of Mines – the birthplace of geostatistics – Geovariances combines **scientific rigor, innovative technology, and decades of field experience** to deliver **reliable, data-driven insights** for every stage of the mining value chain. Geovariances is a **Datamine company**.

CONTACT US

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