GPR INVESTIGATION

PRESENTATION OF THE COMPANY

Introduction

GPR INVESTIGATION *was founded to provide high level Geophysical, Geological & Mining consultancy services. Our experienced team of geologists and mining experts will support you in gaining value to your projects, taking essential decisions, and reaching your milestones.*

Thanks to our broad network of internationally renowned partners we base our services on a very broad portfolio of techniques following the highest standards.

Please find a short presentation of our services on the following slides.

Agenda

1 ABOUT US

2 OUR SERVICES

3 OUR EXPLORATION PROJECTS

About Us

GPR INVESTIGATION provides geological consulting, exploration management, and contract geological services to the global mining and exploration industry. Our team is experienced in all stages of the mining cycle, from greenfield exploration through to development, and initial production, to full-scale operation. We strive for technical excellence and aim to exceed client expectations on every engagement.

The Standards We Follow

Australasia – JORC Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves

National Instrument 43-101 (the "NI 43-101" or the "NI") is a national instrument for the Standards of Disclosure for Mineral Projects within Canada

Our Service Areas

MINERAL EXPLORATION

MINING GEOTECHICS

MINING

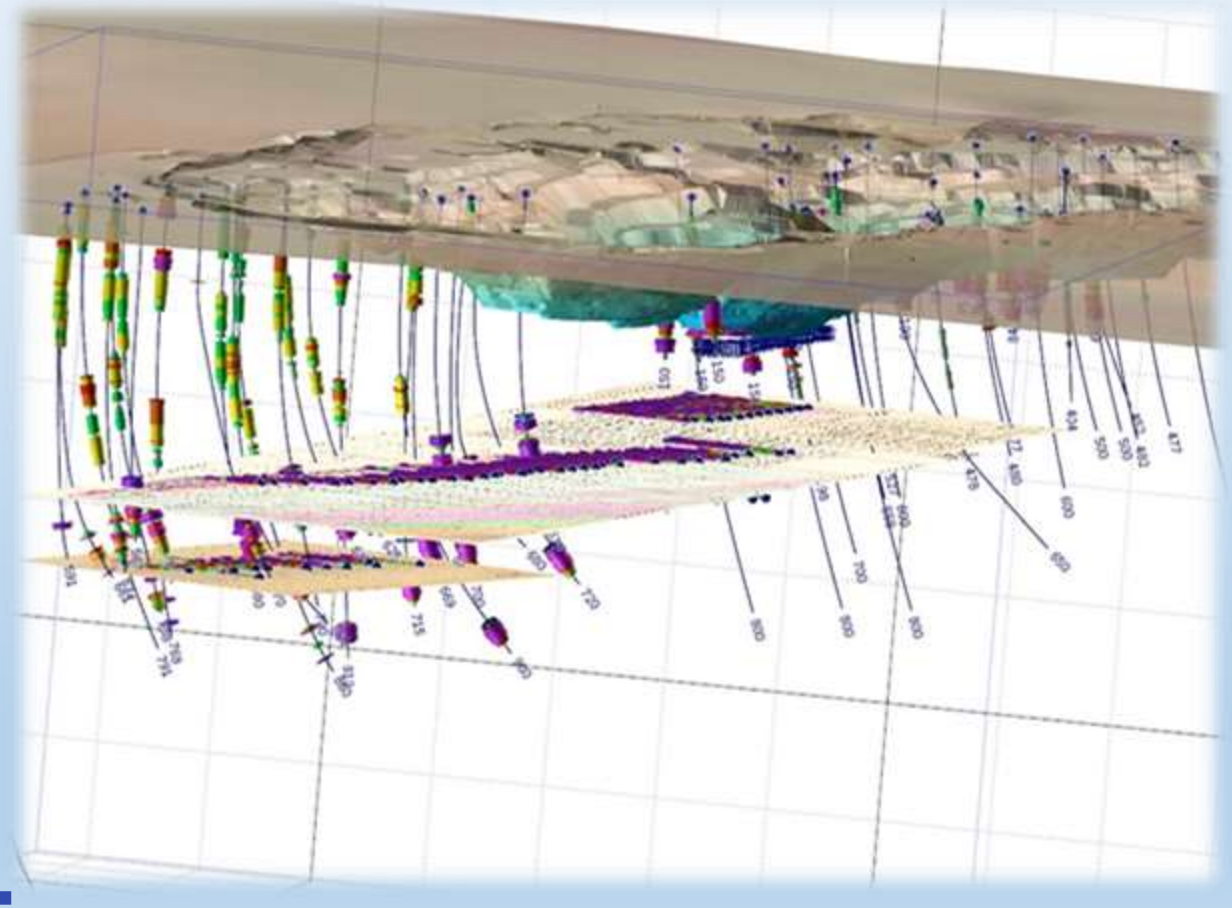
GEOLOGY & RESOURCES

Mineral Exploration

SERVICES

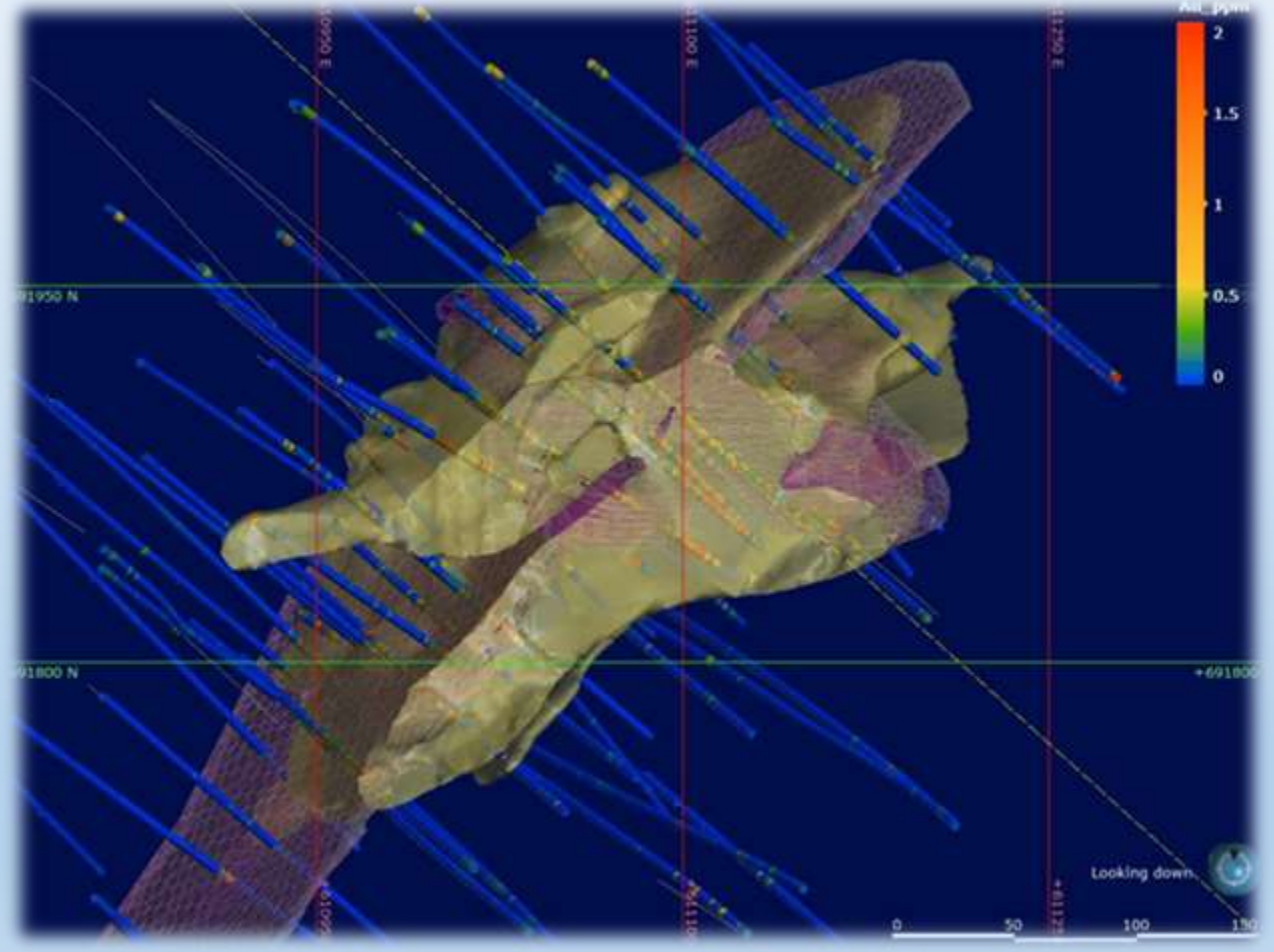
Service Portfolio

- Mineral Exploration Targeting
- Remote Sensing & Geophysics
- Exploration Geochemistry
- Mineral Exploration Project Planning
- Exploration Sampling, Analysis, QA/QC
- Mineral Exploration Field Services
- Exploration Project Audit & Valuation



Mineral Exploration

SERVICES



- Hyperspectral logging
- Data management
- Machine learning
- Micromine, Surpac
- Arc Gis in remote sensing
- QGIS in remote sensing

Techniques

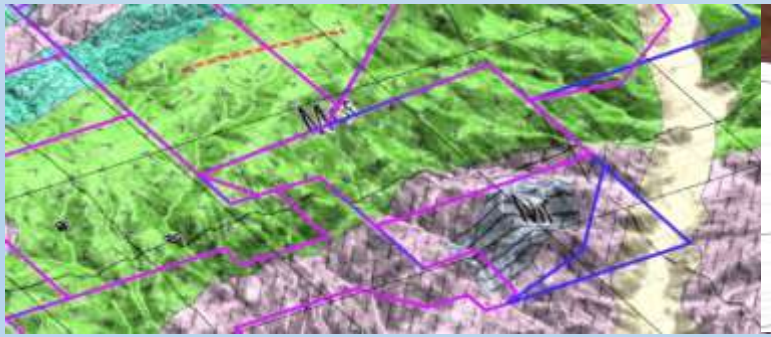
Reporting

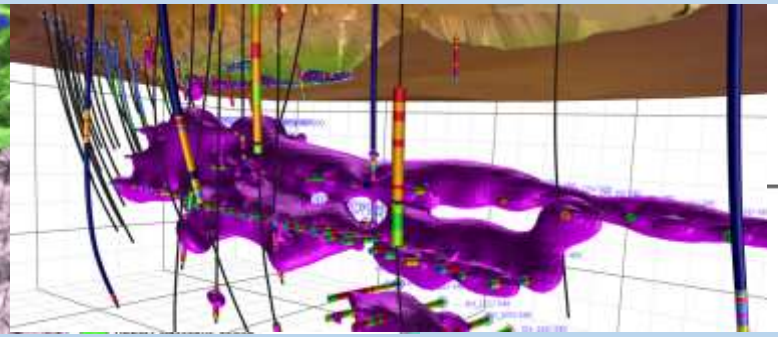
- NI 43-101
- JORC
- Other recognized practices

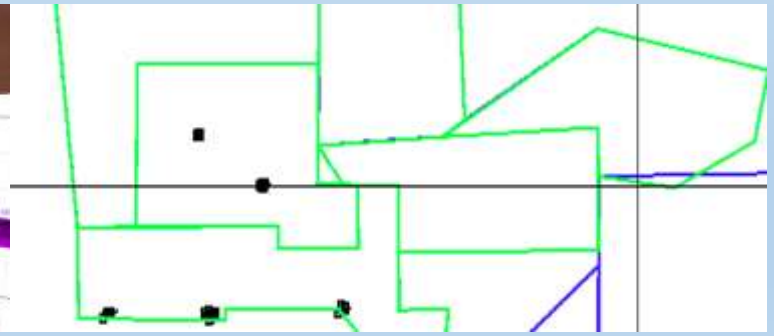
Mineral Exploration

WORKING APPROACH

We ensure effective application and interpretation of geology, geochemistry, and geophysics to generate and test exploration targets. Since “blind” orebodies are of increasing importance, we routinely use a mineral systems approach to assess prospectively. Our team is highly proficient in 3D visualization using software such as Micromine, and Surpac and working with advanced exploration databases.





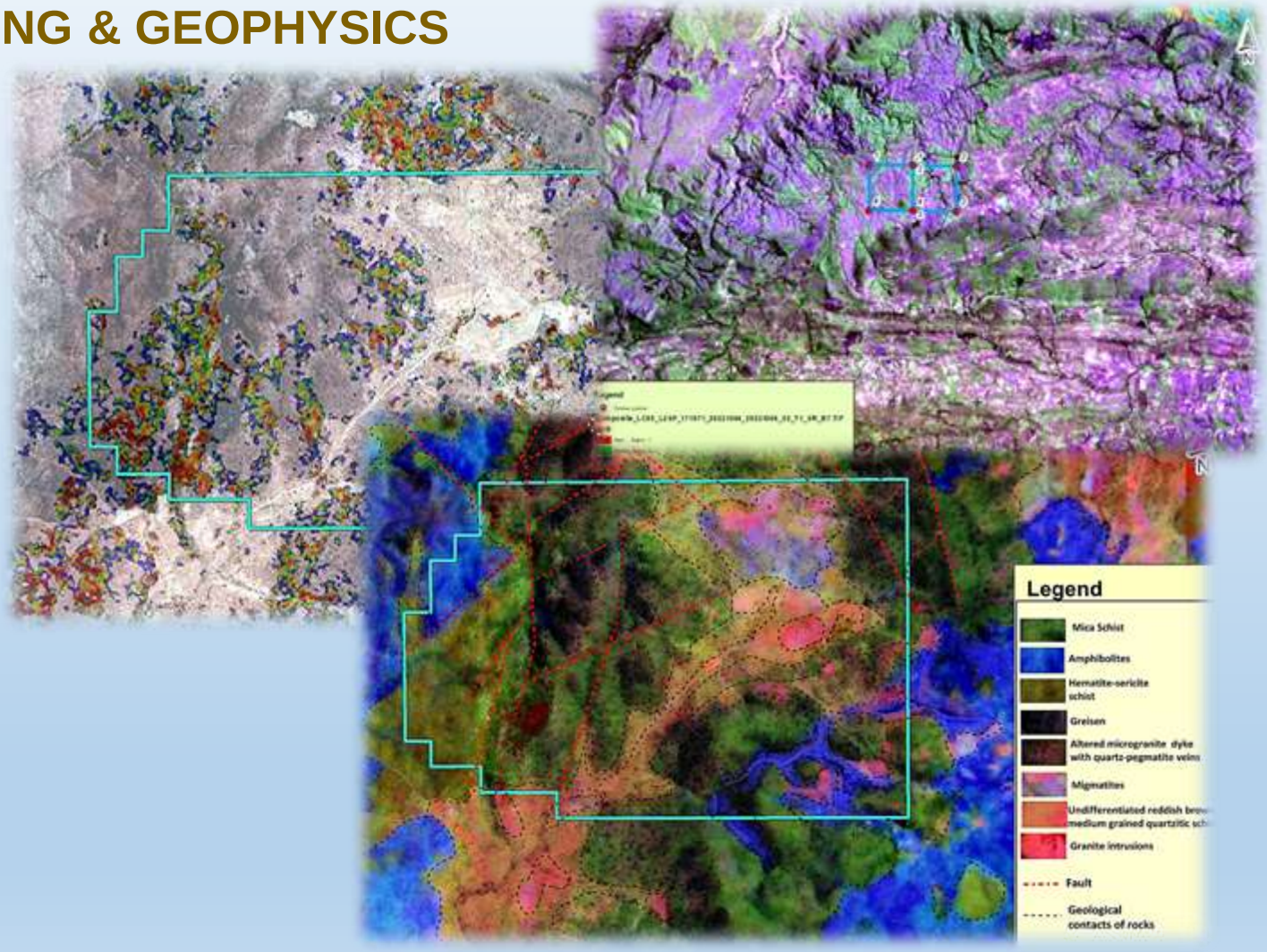


Mineral Exploration

REMOTE SENSING & GEOPHYSICS

We interpret remotely sensed data using a sound structural geological understanding to provide informed, integrated interpretations that can be directly applied to exploration targeting.

Specializing in process-driven conceptual models allows us to improve the understanding of your mineral targets. By using multiple data sets, our highly experienced geologists solve geological ambiguities not resolvable before.

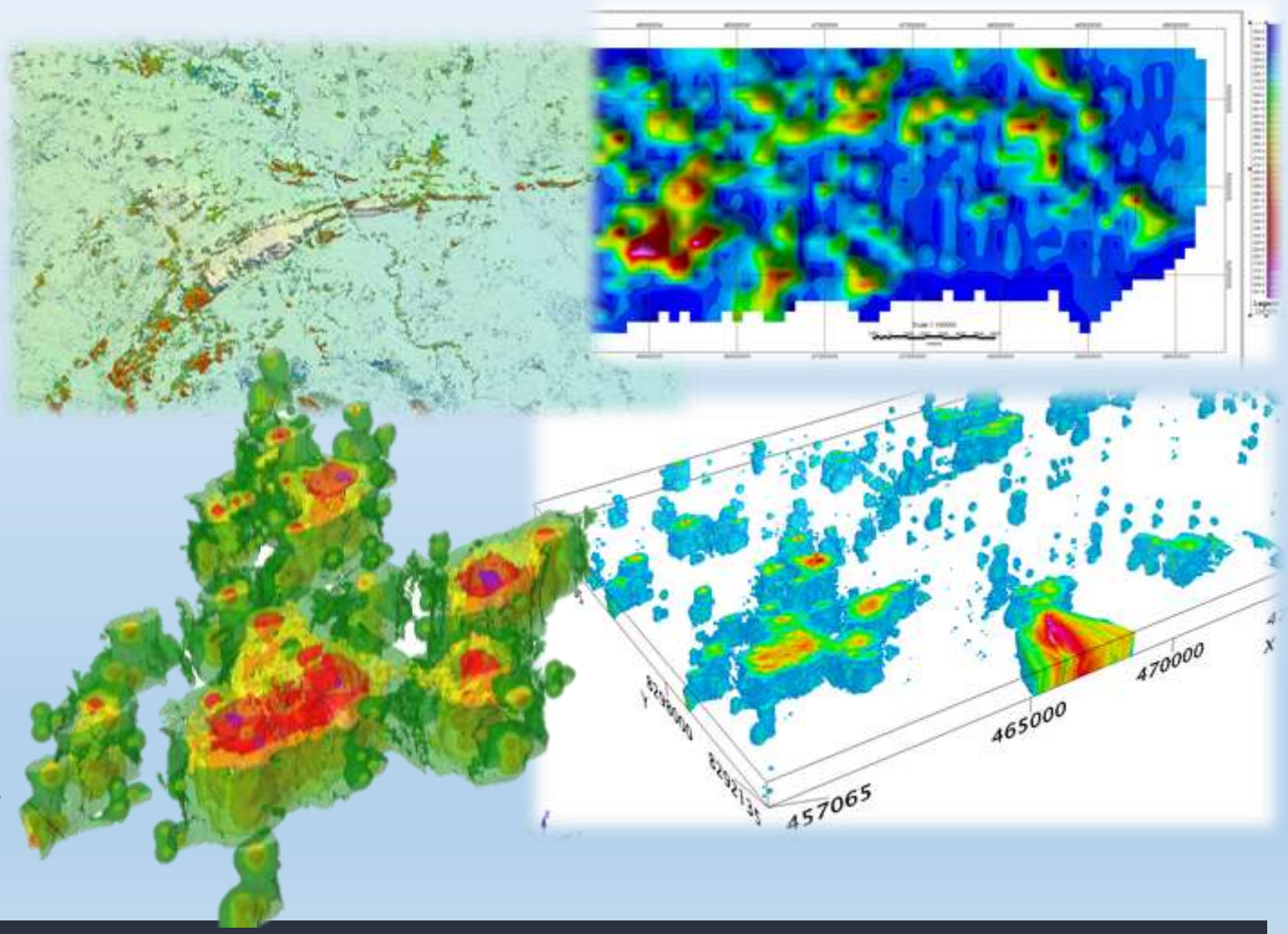


Mineral Exploration

REMOTE SENSING & GEOPHYSICS

Interpretation and targeting based on satellite spectral survey data using Sentinel-2 infrared [VNIR] and shortwave infrared [SWIR] satellite data for Cu-Co-Au exploration.

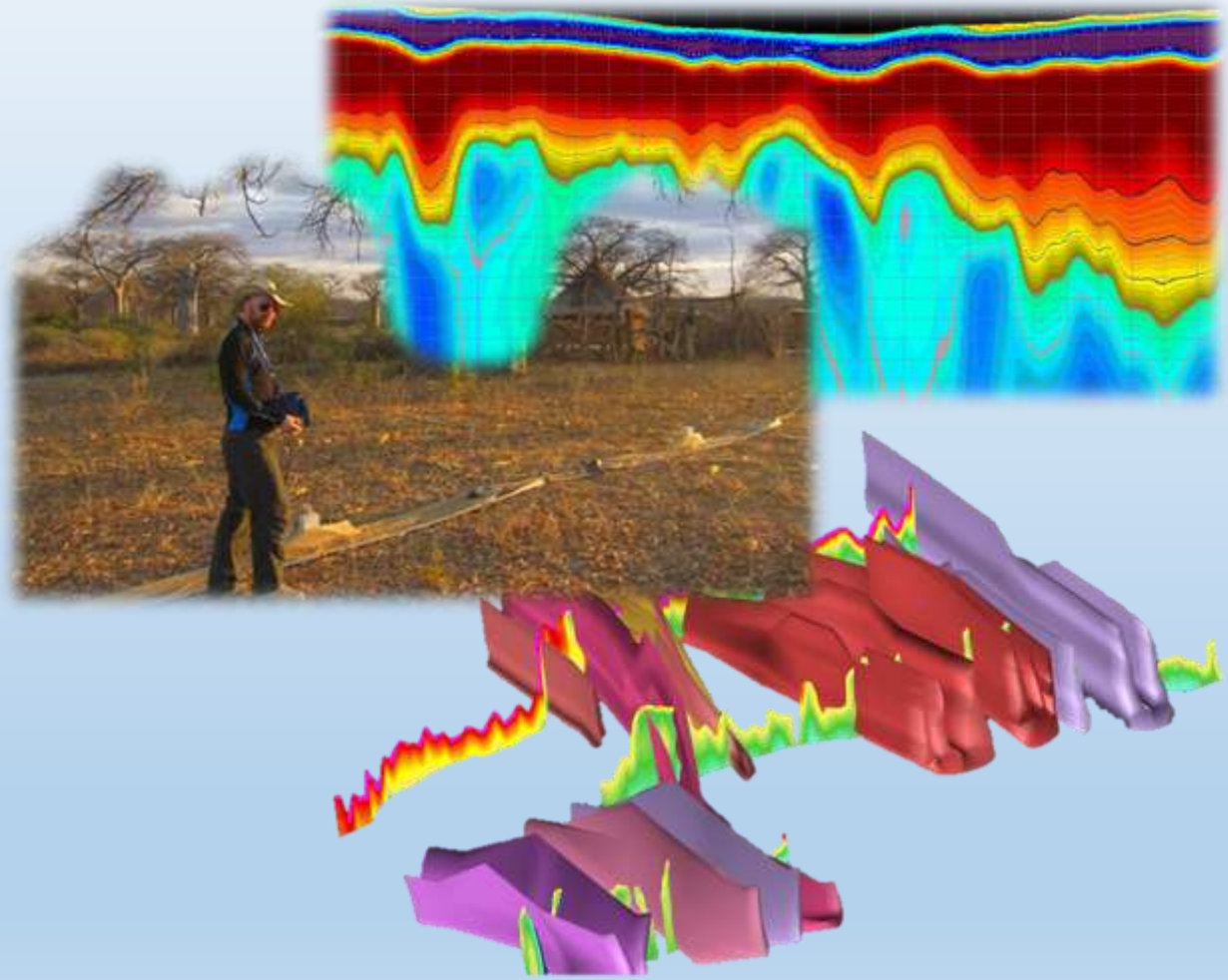
The data of the visible spectrum of the mineral is interpreted, then the correlation of a particular visible spectrum is compared with the data from the USDS mineral spectral data library. Using the data inversion method (similar to processing geophysical survey data), we obtain a model of a ready-made target for further exploration (isosurface of the proposed mineralisation), with more refined spatial and geometric characteristics, which greatly simplifies the identification of targets for exploration over large areas.



Mineral Exploration

GPR PROFILING

In geophysics, many consider ground penetrating radar as an exploration tool/technique that only provides images at shallow depths. This opinion is absolutely true for most GPRs built on traditional architecture. However, we use the Loza-2N "DeepGPR" low-frequency georadar, which implements and develops low-frequency solutions and principles that allow us to obtain data from depths of hundreds of meters.In order to reduce the risks of geological exploration work, as well as reduce the cost of geological exploration work, our company proposes to use a geophysical exploration method based on the method of high-resolution electromagnetic waves (15-50 MHz) to obtain a refined section, determine the geometry of the main geological structures, ore veins and stockworks.



Mining

SERVICES

Portfolio

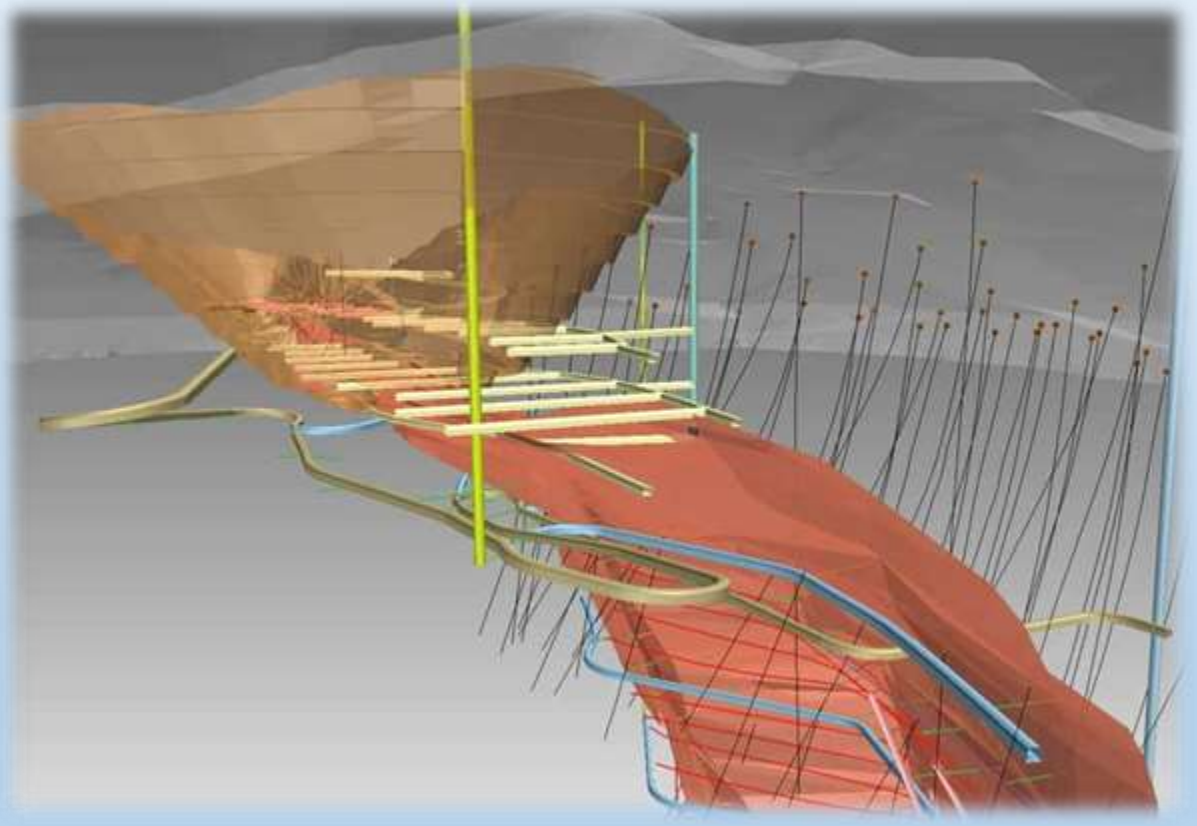
- Mining Project Estimation
- Mine Engineering
- Mine Waste Management
- Extractive Metallurgy & Mineral
- Project Management

Techniques

- Mining & engineering studies (concept to feasibility)
- Reserve assessment reviews
- Mine optimization, scheduling & design
- Ore Reserve estimation & reporting
- Grade control & reconciliation
- SW: Micromine, Geovia, Surpac

Mining

WORKING APPROACH



Our expert team is backed by decades of senior level experience – as executives, managers, operators and technical specialists. We draw on this experience and knowledge to add value to your mining project in the following keyways:

Delivering results that satisfy the technical diligence requirements of investors, so they can make investment decisions.

Adopting an integrated approach, by working closely with geologists and other technical experts, to ensure solutions are practical and effective.

Assisting with accurately delineating ore and waste, and correctly planning and scheduling material movements to optimize metal production and profit.

Mining Geotechnics

SERVICES

Portfolio

- Geotechnics for Mining Infrastructure
- Mining Geotechnical Investigation
- Underground Rock Mechanics
- Pit Slope Stability
- Geotechnical Numerical Modelling
- Geotechnical Operational Support

Techniques

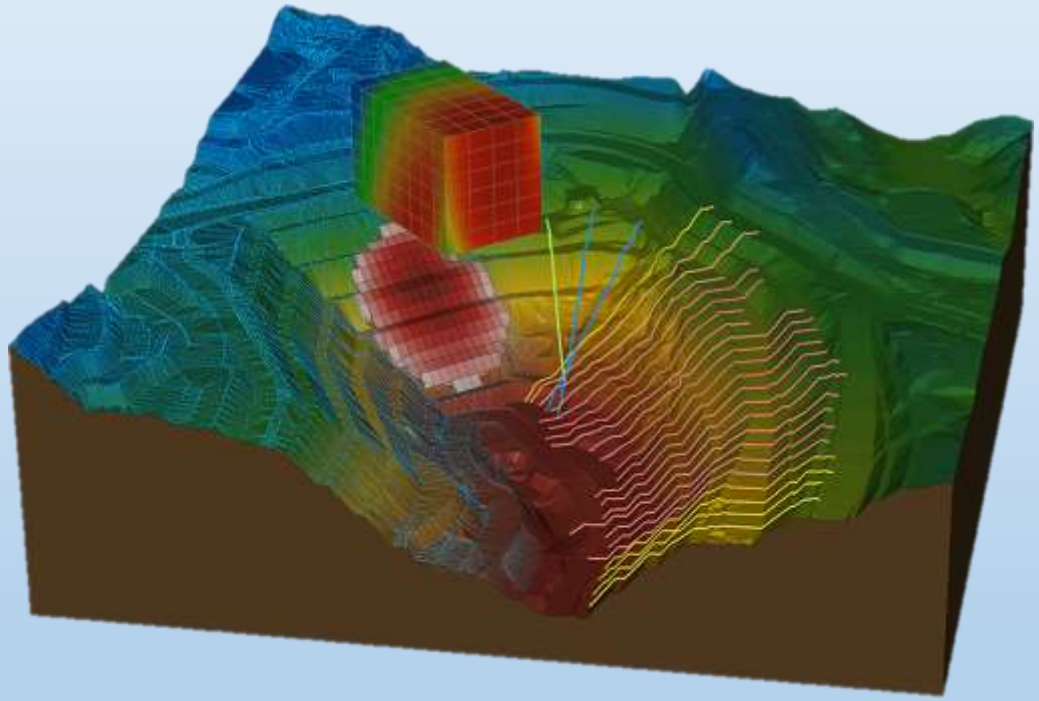
- Geotechnical Instrumentation
- Ground Support Quality Control
- Geotechnical Core Logging
- Rock Property Testing
- Drill hole/ rock bolt camera inspections
- SW: SVDESIGNER, PLAXIS LE

Mining Geotechnics

WORKING APPROACH

By providing clear, comprehensive design options and assessing their associated time- and mining-related risks, we will help you make informed decisions based on your specific needs and risk profile.

We work in environments ranging from equatorial to permafrost at surface, shallow, and deep levels and have expertise in diverse mineral commodities, including base and precious metals, coal, iron ore, bauxite, diamonds, and industrial minerals. Our specialists also have multiple-method mining and infrastructure experience and design and implement support systems to deal with accelerated erosion from construction, ground disturbances, and waste disposal.



Geology and Resources

SERVICES

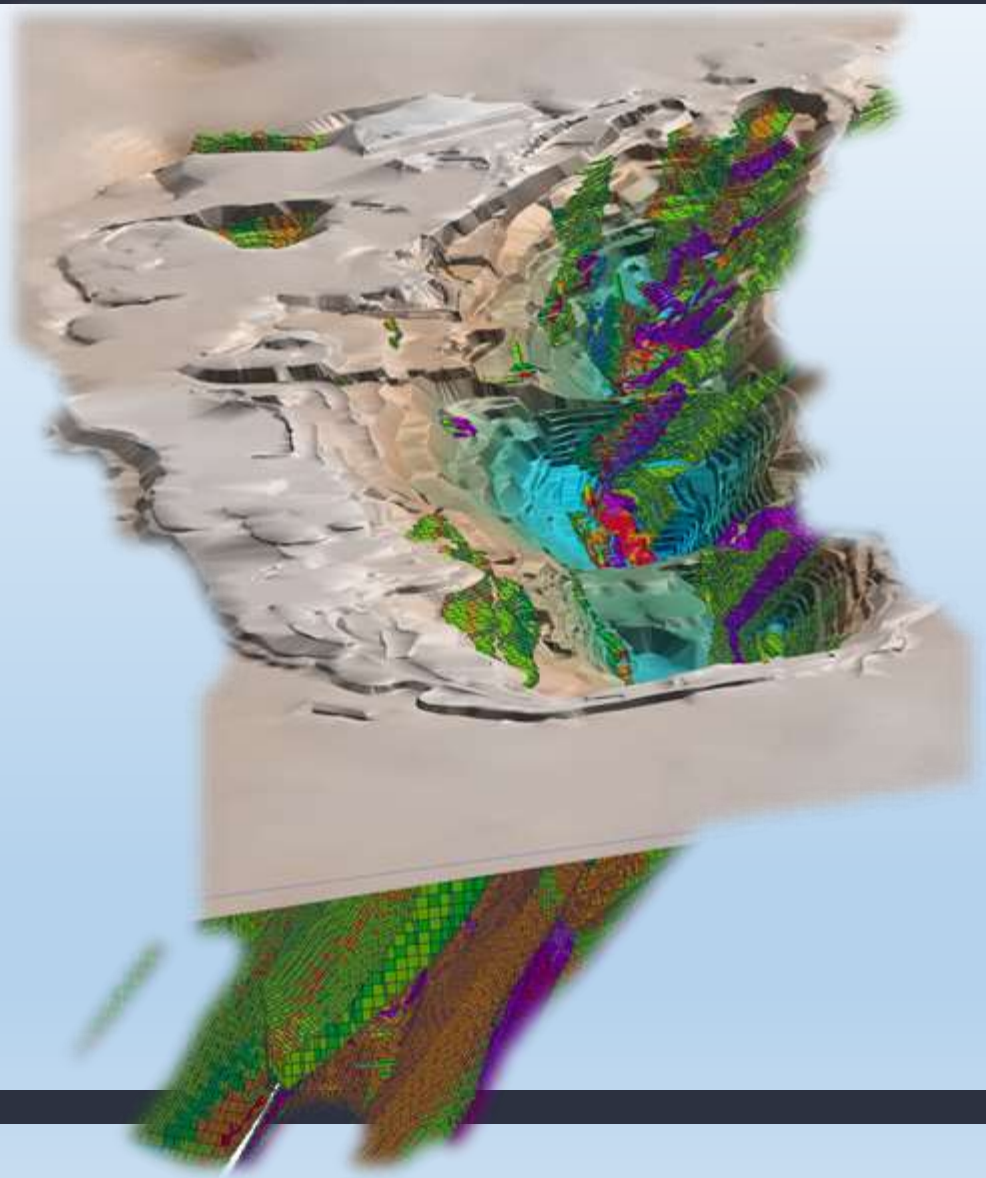
Portfolio

- Structural Geology
- 3D Geological Modelling
- Mineral Resource Estimation
- Mineral Reserve Estimation
- Scoping Studies
- Pre-feasibility studies
- Feasibility Studies
- Mine Site Operational Support

Techniques

- QA/QC of data & data collection techniques
- Geological & geo-metallurgical modelling
- Geostatistical analysis & variography
- Mineral Resource Estimation, validation & classification
- Reporting in accordance with international codes
- Resource audits & risk analysis
- Micromine, Surpac

Geology and Resources



WORKING APPROACH

Base your decisions on our interpretation of the structural setting of ore deposits and our recommendations for specialized drilling, sampling, and assaying techniques.

We use 3D modelling software combined with statistical and geostatistical methods to model commodity distribution. Our experts integrate complex datasets to generate and refine targets and identify controls on mineralization. We map open pit and underground mines and improve grade control, ore reserve modelling, mine plans, and near mine drill targeting.

We will find a solution for you!

LET'S EXPLORE OUR WORLD TOGETHER!