

# REDEFINING MINERAL EXPLORATION WITH RSS-NMR TECHNOLOGY END OF SCOUTING. DIAGNOSTIC ABOUT THE FEASIBILITY VERY FAST

A tool that enables decision-making based on scientific analysis

No company representatives on site, no expectations for the authorities

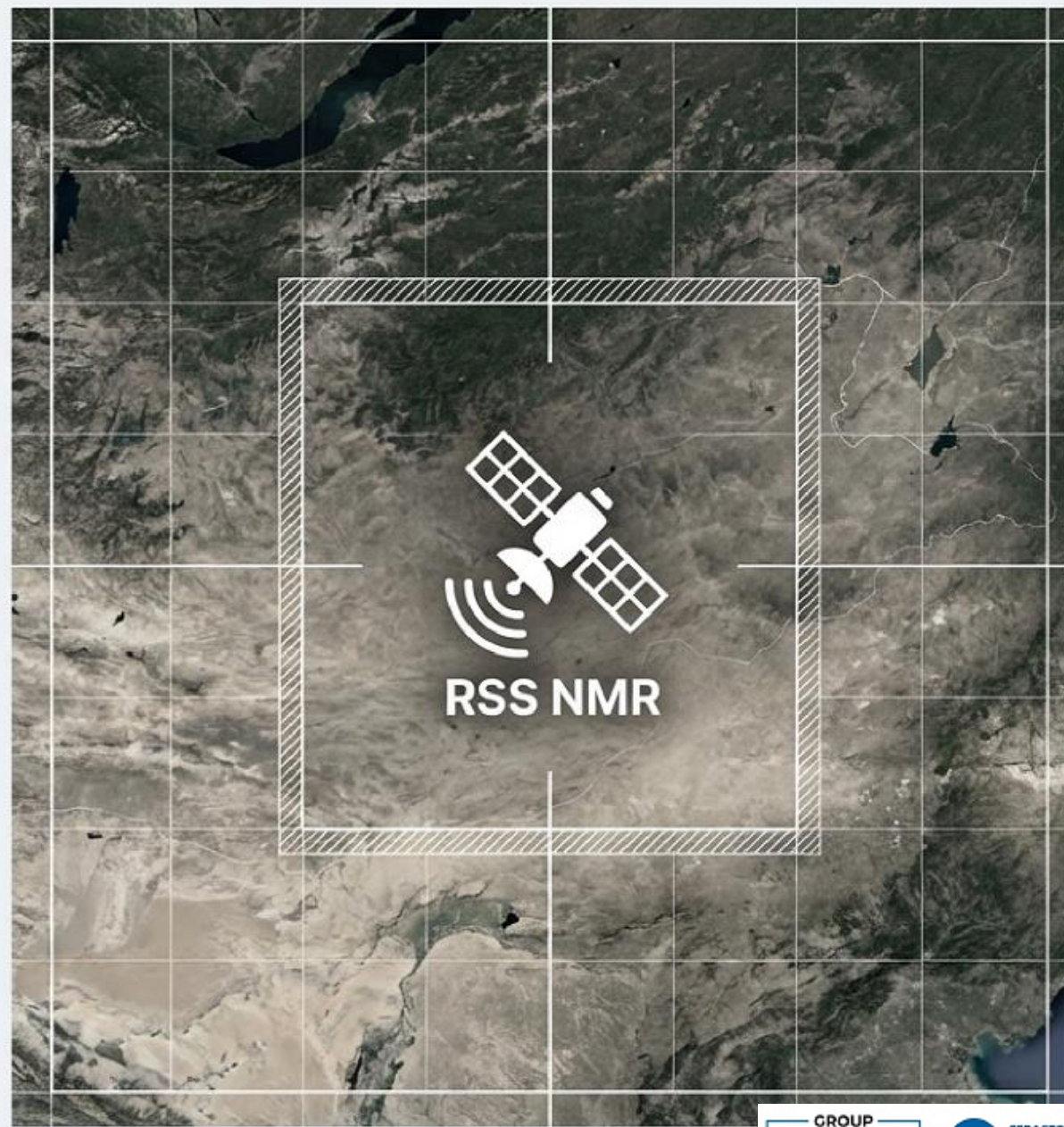
"Only see and decide !"



# Remote Geological Assessment: Licensed Area 0.9 km<sup>2</sup> (China)

Deep Sensing & Anomaly Detection  
Report | Contract № 1-05/2022

Location: PRC border region, SE Mongolia,  
Central Asian Orogenic Belt  
Technology: RSS NMR (Remote Satellite Sensing)  
Scientific Director: PhD Kovalyev N.  
Date: 2022

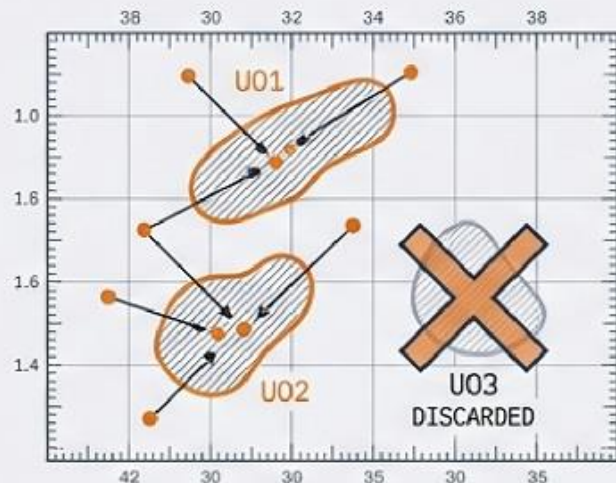


# Executive Summary: Investigation Findings & Commercial Verdict

## 01. THE RESULT

# 3 Anomalies Identified.

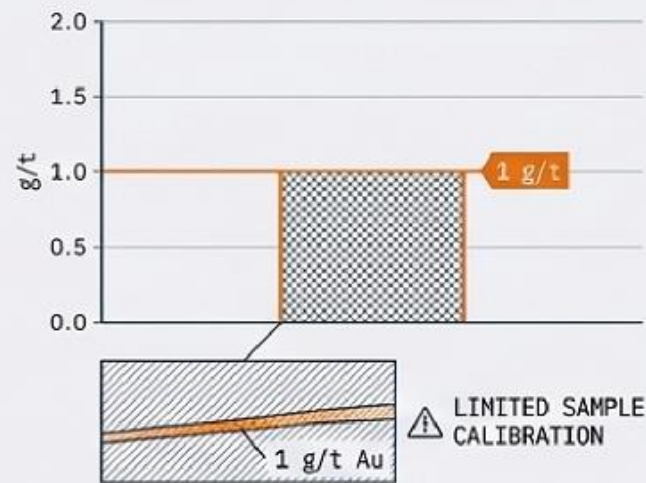
2 Potential (U01, U02),  
1 Discarded (U03).



## 02. THE GRADE

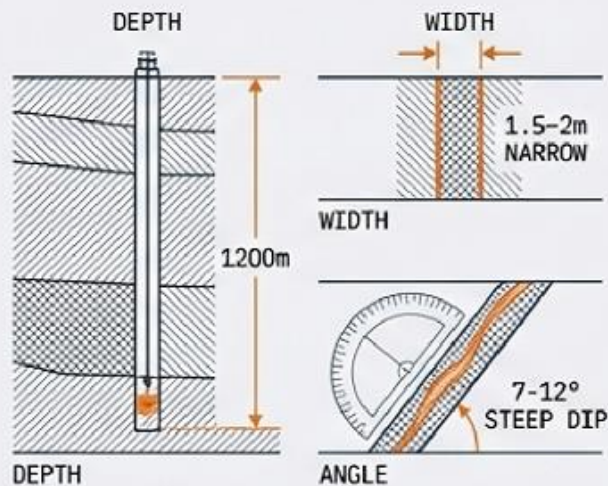
### Estimated Gold Content: ~1 g/t

Note: Calibration limited by lack of commercial-grade core samples.



## 03. THE CONSTRAINT

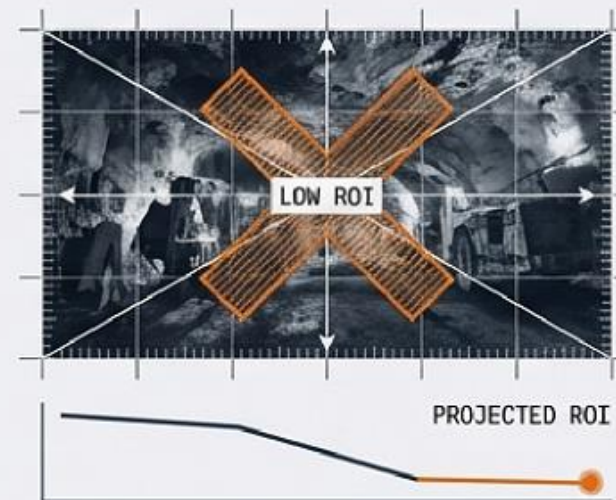
- Depth: Up to 1200m
- Width: Narrow (1.5–2m)
- Angle: Steep dip (7-12°)



## 04. THE VERDICT

### Presumably not of commercial interest.

Low ROI anticipated due to extraction difficulty.

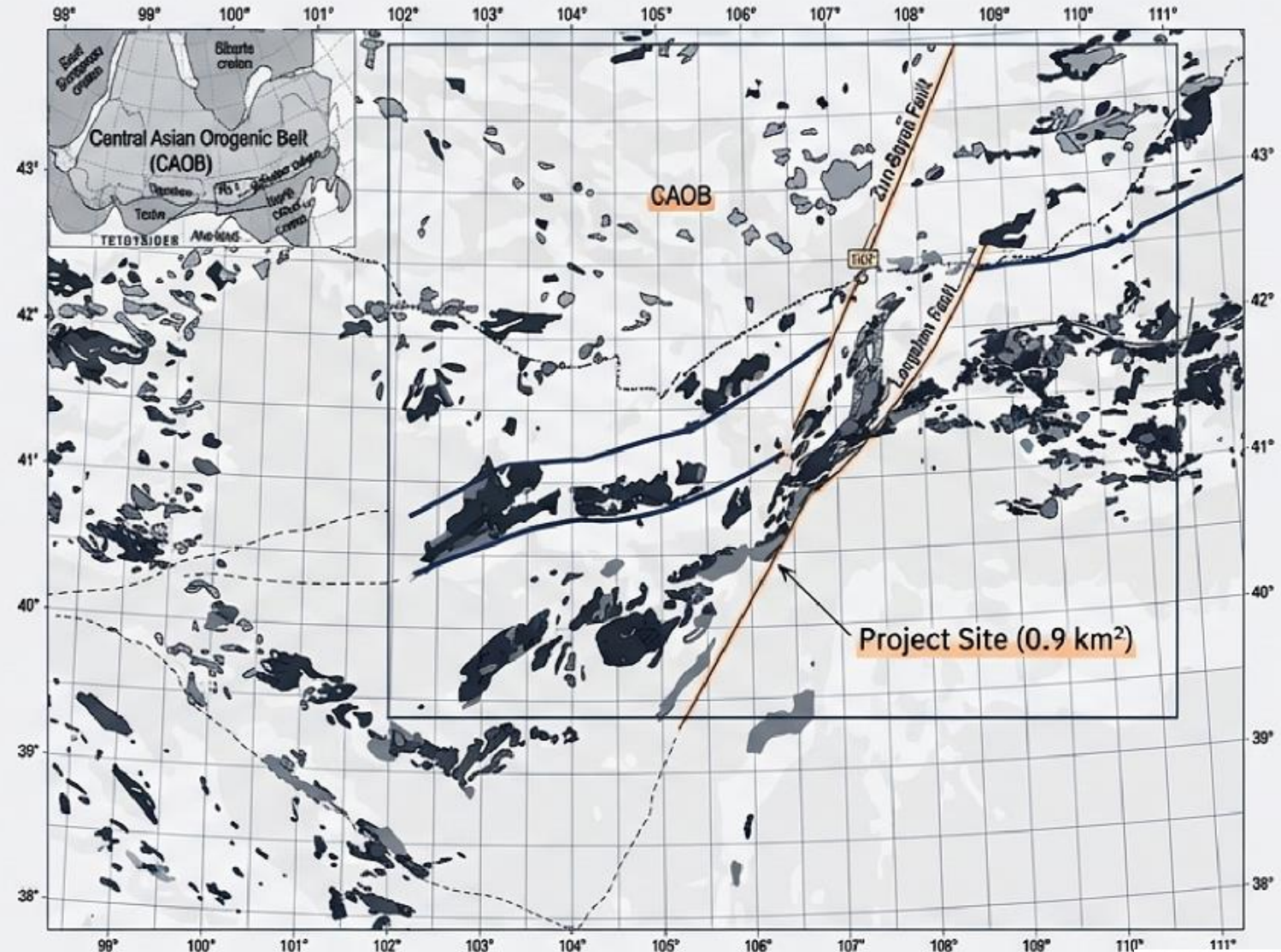


**RECOMMENDATION:** Drill 2-3 control wells to 700m to verify findings, or conclude operations immediately.

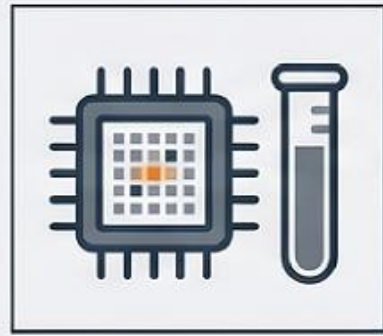


# Regional Context: Proximity to the Zun-Bayan Tectonic Fault

- **Tectonic Setting:** Located in the Central Asian Orogenic Belt (CAOB) of the North China Craton.
- **Strategic Proximity:** The site lies directly within the boundaries of the Zun-Bayan tectonic fault.
- **Regional Analogues:** Nearest large deposit is Oyu-Tolgoi (Cu+Au), located tens of kilometers north.
- **Geological Logic:** Deposits usually confine to outer boundaries of faults; however, this site's geology is complex and deep-seated.



# Methodology: The 'Poisk' Remote Sensing Process



**1. Preparation:**  
NMR spectra  
recording of gold  
atoms.



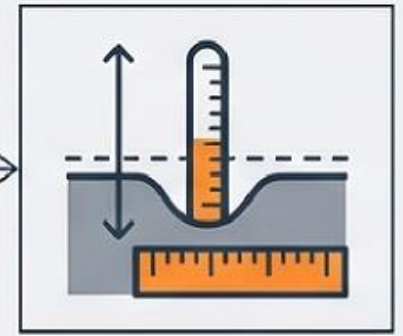
**2. Acquisition:**  
Satellite imaging  
(UV, Visible, IR).



**3. Processing:**  
Chemical treatment  
& Radiation field  
exposure.



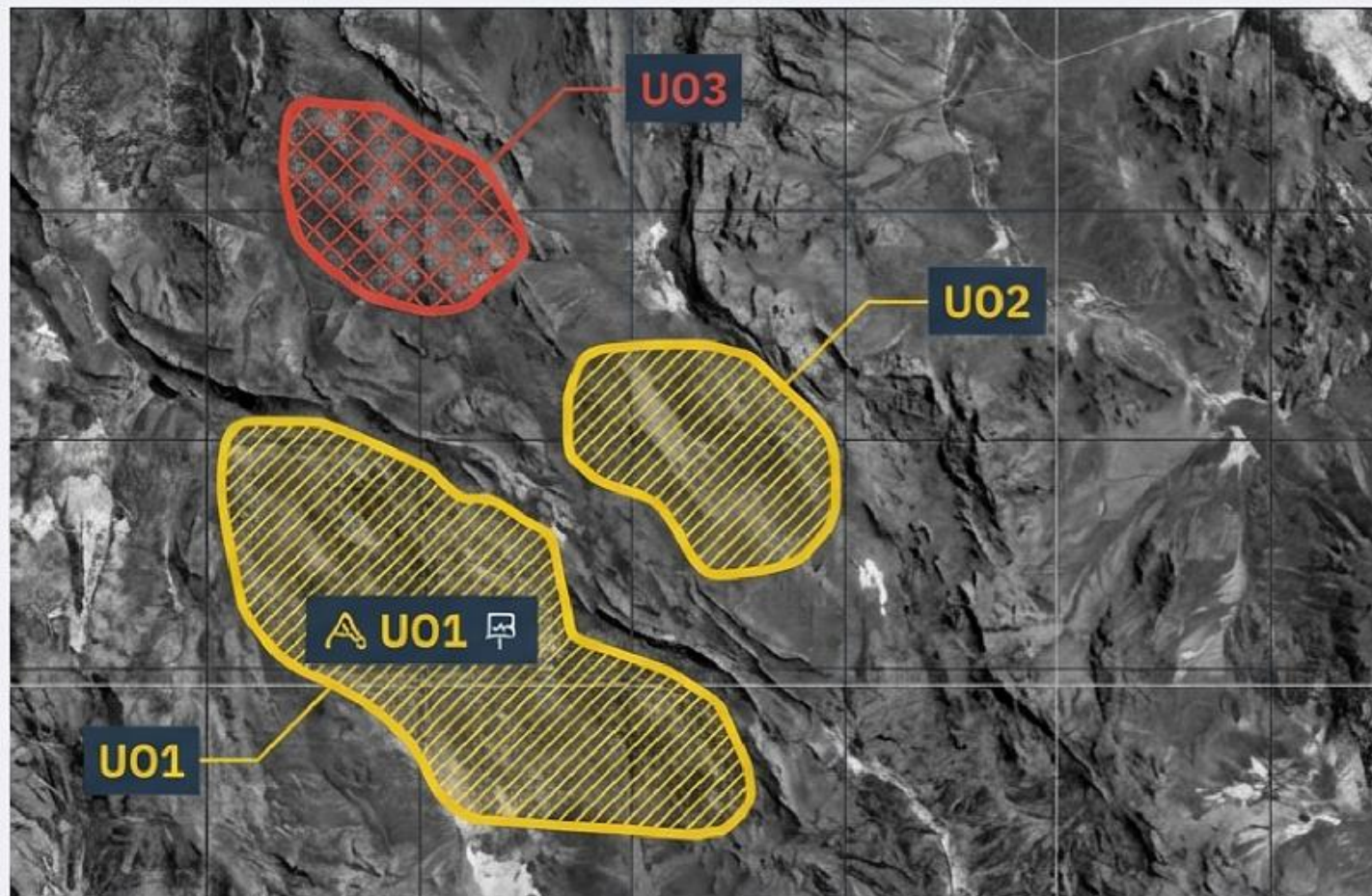
**4. Analysis:**  
Identification of  
'High Brightness  
Zones' (mineral  
glow).



**5. Depth  
Calculation:**  
Parallax shift  
analysis.



# Identified Anomalies: Spatial Distribution & Classification



## U01 Anomaly No. 1 (U01):

- Investigated.
- Southwest.
- Gold conc. ~1 g/t.

## U02 Anomaly No. 2 (U02):

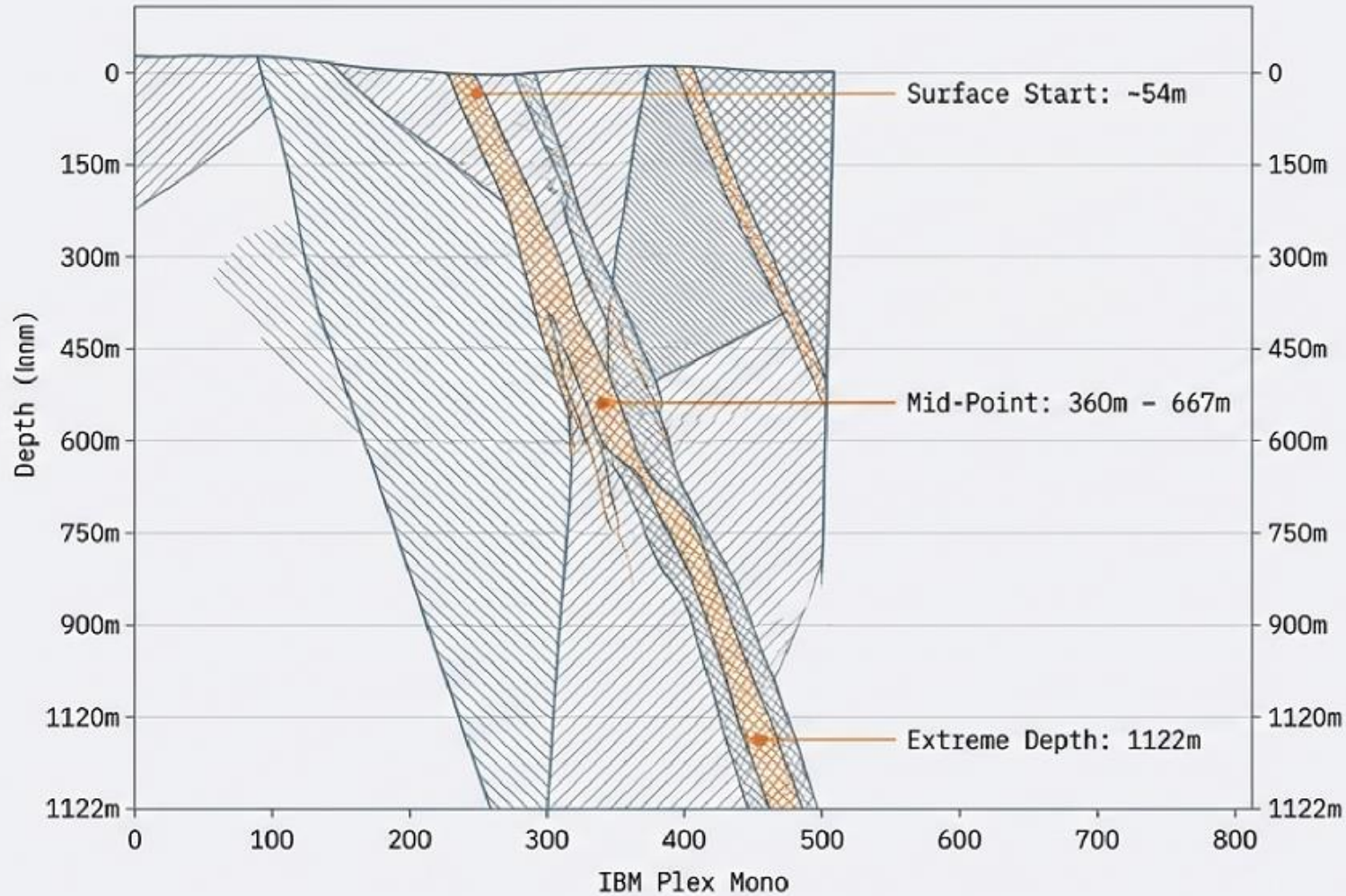
- Investigated.
- Central.
- Gold conc. ~1 g/t.

## U03 Anomaly No. 3 (U03):

- DISCARDED.
- Northwest. Unpromising signal intensity.

**Safety Orange** Key Insight: Anomalies are strictly confined to tectonic fault lines identified via IR satellite processing.

# Deep Dive: Anomaly No. 1 (UO1) Profile



- **Dimensions:**  
Length 235m, Width 41.5m
- **Structure:**  
Two quartered veins (SW to NE)
- **Vertical Extent:**  
Plunges to >1100m

# Deep Dive: Anomaly No. 2 (U02) Profile

## Dimensions:

Length 180m

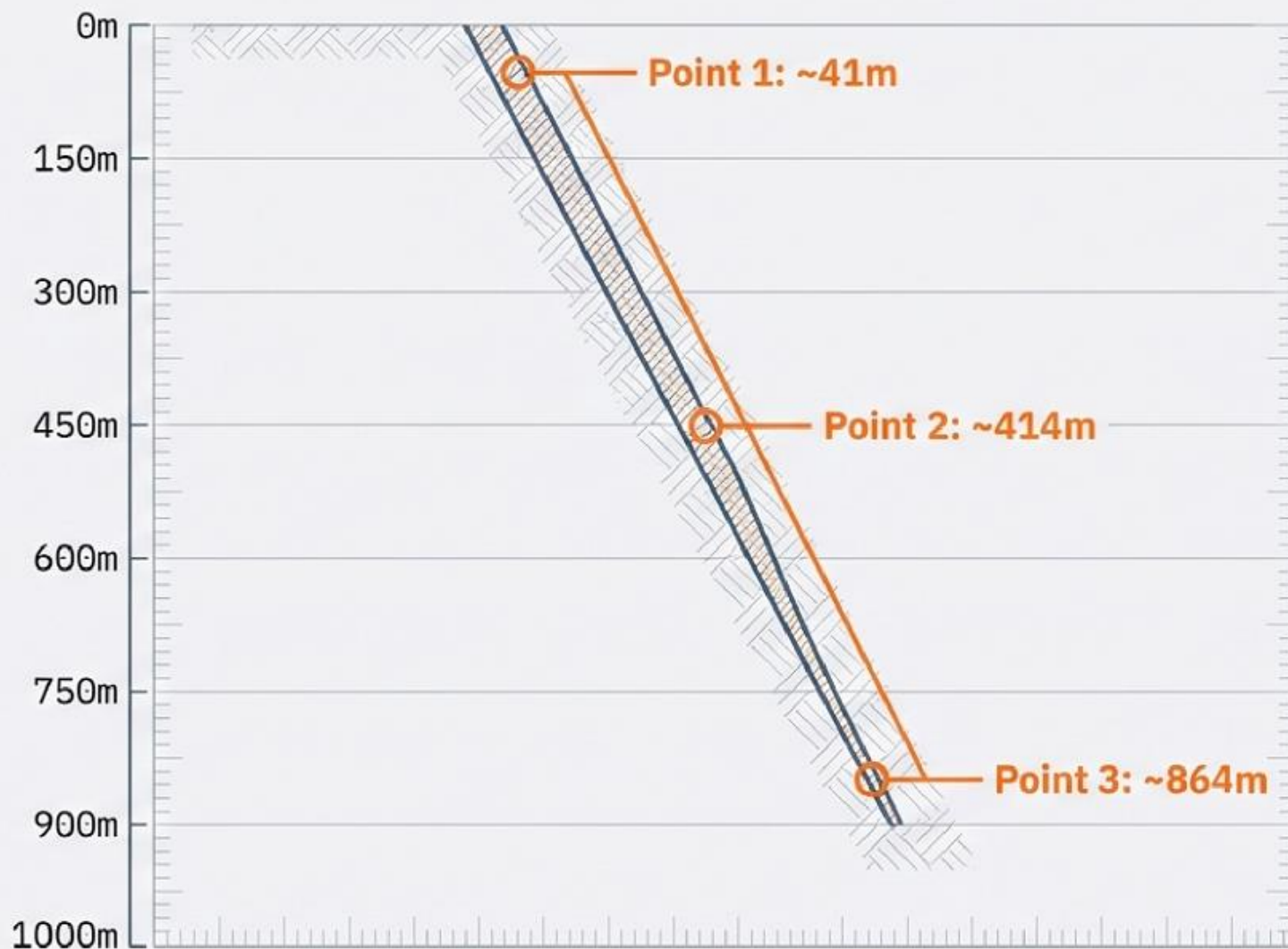
Width 34m

## Structure:

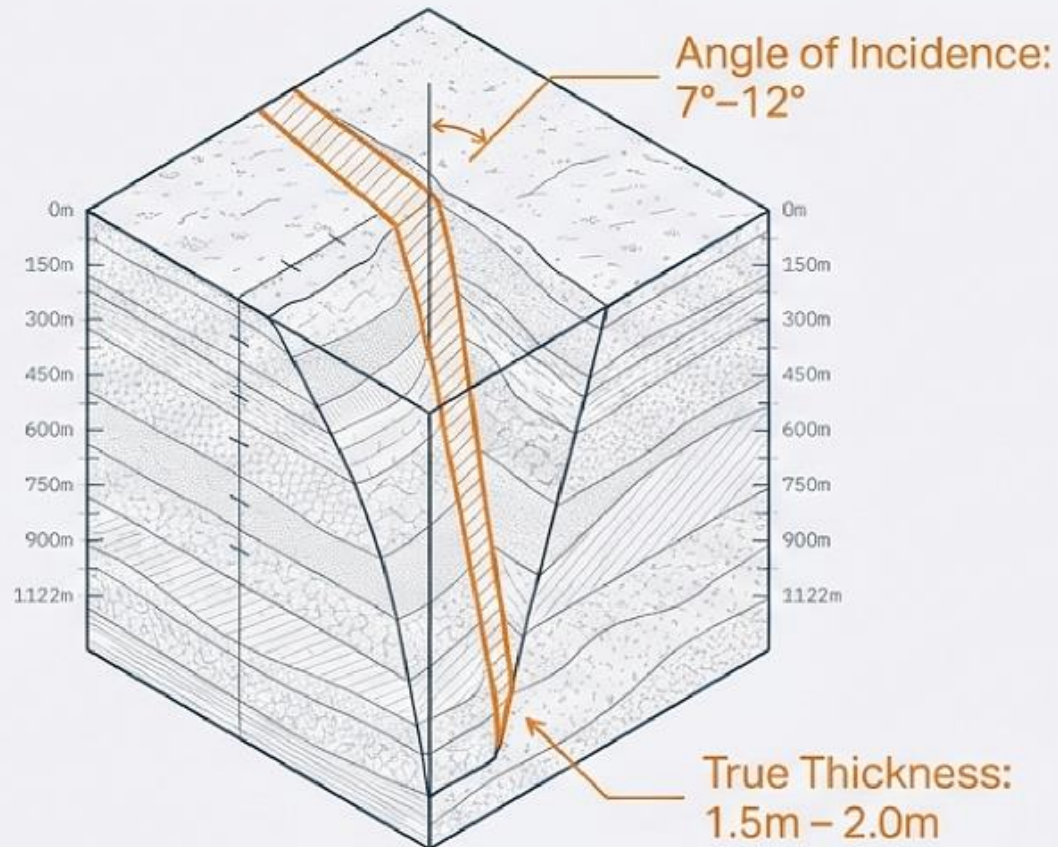
Single quarried vein

## Geometry:

Similar steep plunge to U01.

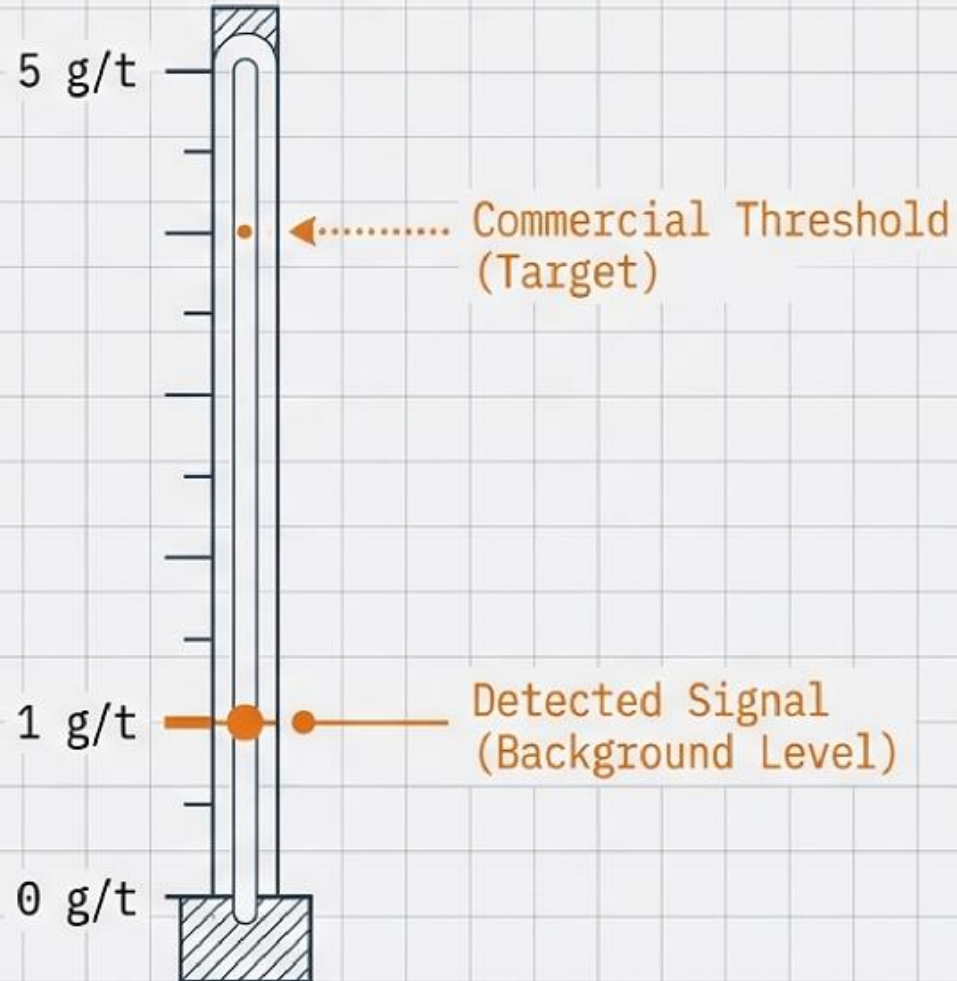


# Structural Analysis: Vein Geometry & Extraction Challenges



**The Excavation Problem:** While the anomaly signal width appears to be 30-40m, the actual mineralized vein is extremely thin (approx 1.5m). Because it stands nearly vertically (like a sheet of paper), accessing it at 1000m depth requires moving massive volumes of non-mineralized overburden rock, destroying the economics of the mine.

# Quantitative Analysis: Grade Estimation & Calibration Limits



## The Data:

Detected gold concentrations are ~1 g/t.

## The Calibration Constraint:

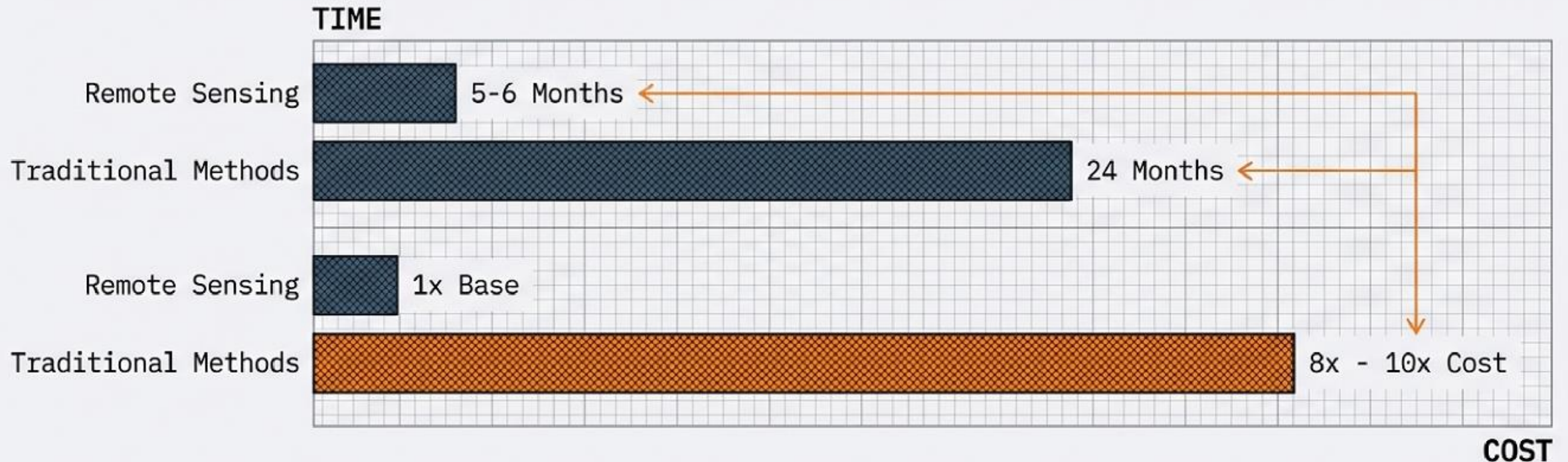
The Client did not provide commercial-grade core samples for the system's learning matrix. Calibration was performed using only low-grade (1 g/t) samples.

## Conclusion:

The system searched for 'background' levels because that is what it was taught to see. Actual commercial grade *might* be higher, but current data only proves 1 g/t.



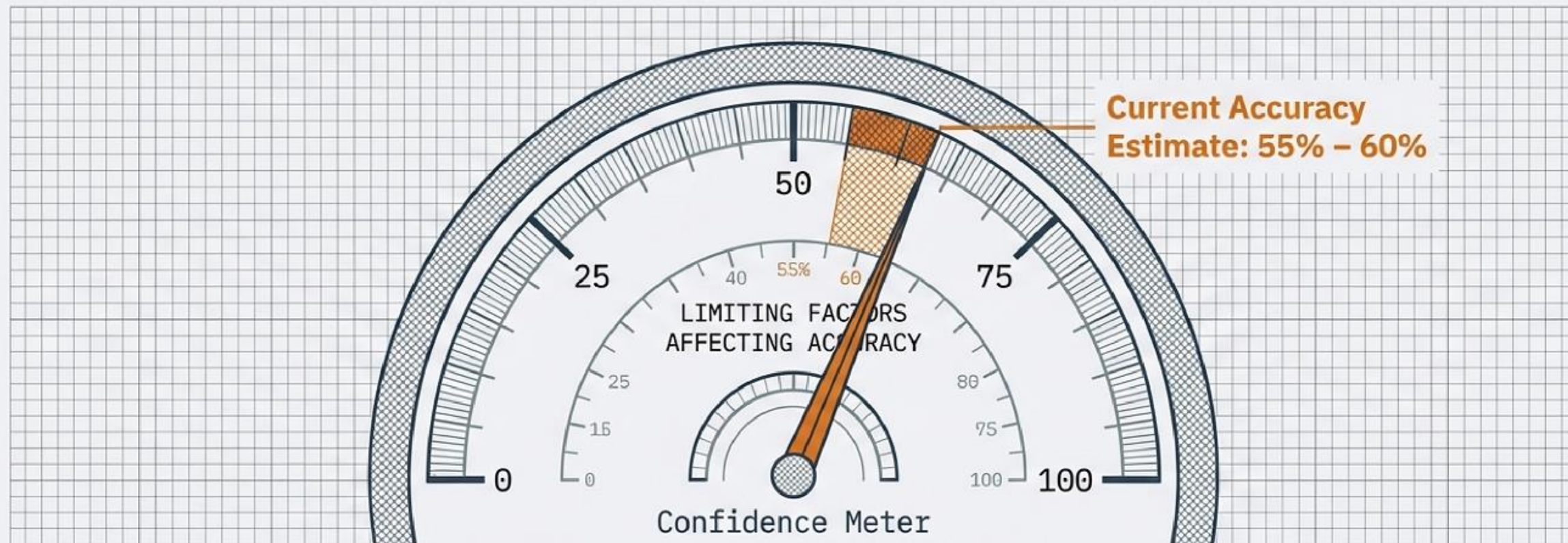
# Operational Efficiency: Remote Sensing vs. Traditional Exploration



## STRATEGIC VALUE:

This report eliminated the financial risk of "blind drilling" into unpromising sectors, saving significant capital expenditure despite the negative geological result.

# Data Reliability & Confidence Intervals



## Missing Reference Data:

Accuracy is capped because high-grade commercial reference samples were not available for calibration.

## Stage II Pending:

Field work with Mobile NMR was not commissioned.

## Depth Error Margins:

Estimates at 1000m depth have a margin of  $\pm 5-110\text{m}$ .

# Recommendations: Verification Protocol



**Step 1: Validation Drilling.**  
Drill 2-3 control exploratory wells at coordinates U01 and U02.

**Target Depth:** Wells must reach 700m to intersect the deep vein structure.

**Objective:** Obtain physical cores to determine actual gold concentration vs. background noise.

**Decision Point:** If cores show >1 g/t, proceed to Stage II (Field Survey). If not, cease operations.

# Our solution: RSS-NMR technology, a direct detection method.

RSS-NMR (Remote Sensing Survey by Nuclear Magnetic Resonance) technology is a direct exploration method that identifies the unique spectral signature of each mineral. By exciting the atomic nuclei of the substance being sought, we obtain a resonance response that confirms its presence and allows us to characterize the deposit with unparalleled precision.

We don't look for geological anomalies. We detect the ore directly.



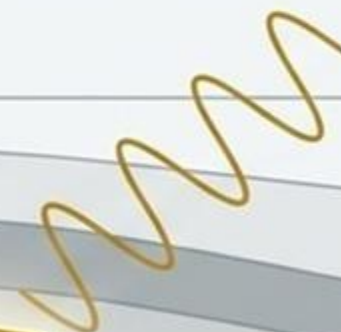
transmitting antenna

Excitation signal

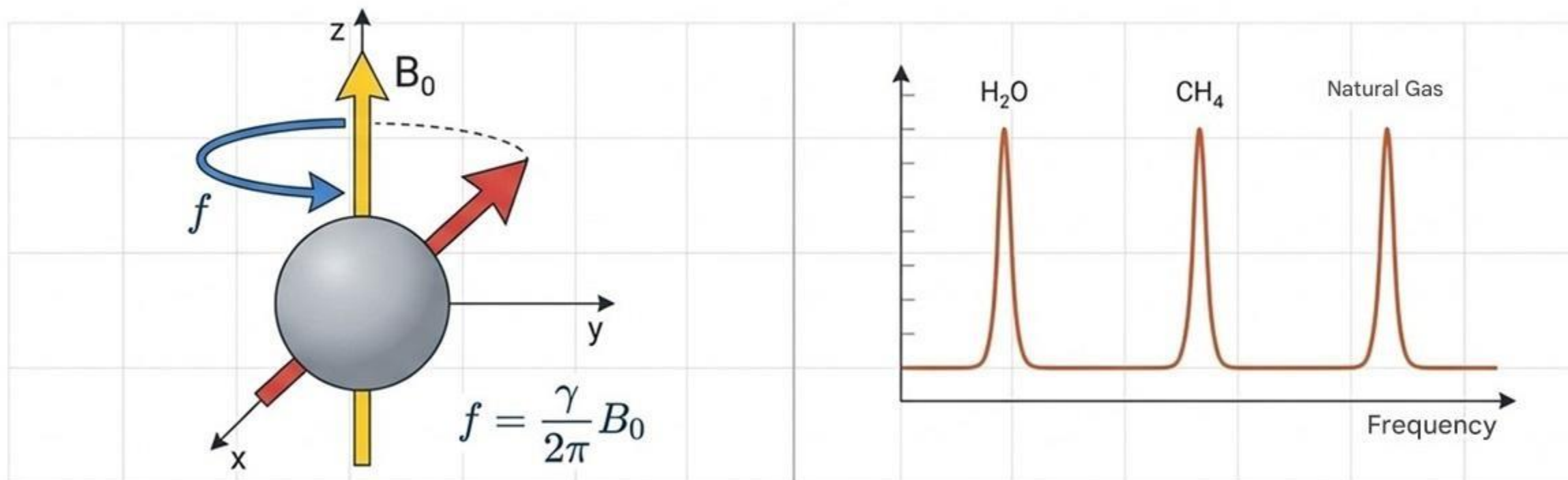


Deposit  
Gold, Silver

Resonance signal



Each substance has a spectral "fingerprint" that we can read remotely.



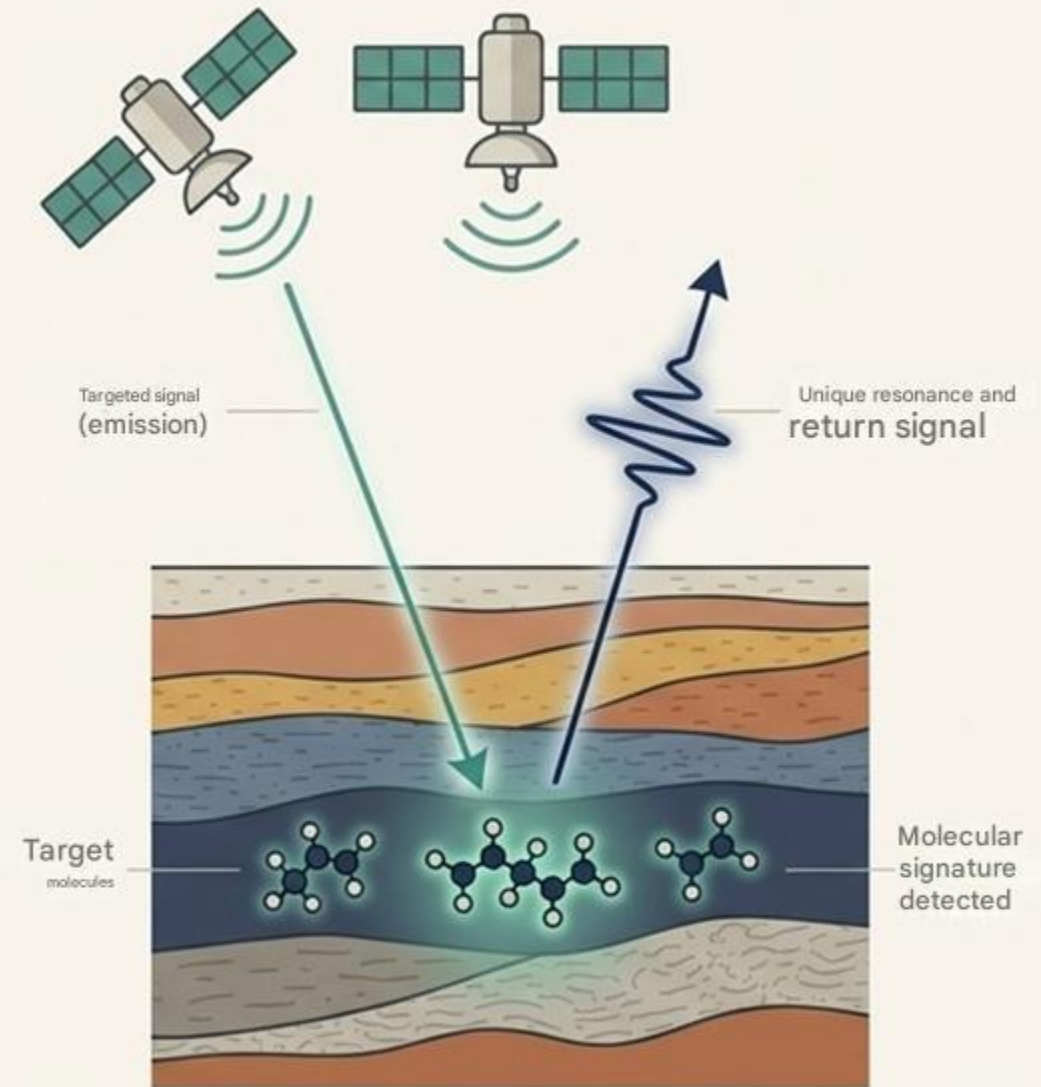
The technology is based on the effect of Nuclear Magnetic Resonance (NMR). By exciting atomic nuclei, we measure their resonance frequency. This "chemical shift" is unique to each molecule (water  $H_2O$ , methane  $CH_4$ , etc.), allowing for unambiguous identification of the substance being sought, separating its signal from background noise.

The solution: RSS-NMR technology for direct detection.

Instead of searching for geological structures, we directly detect the **molecular signature of minerals.**

The technology is based on Nuclear Magnetic Resonance (NMR), a physical phenomenon that allows the identification of specific substances. We excite the atomic nuclei of the mineral being sought (oil, gas, water) and measure their unique resonance signal, the Larmor frequency.

- Direct detection: Unambiguous identification of the mineral.
- Drilling depth: 0 to 7 km.
- Applicability: Onshore and offshore, with no terrain restrictions.
- Safety: Completely harmless to humans and the environment.

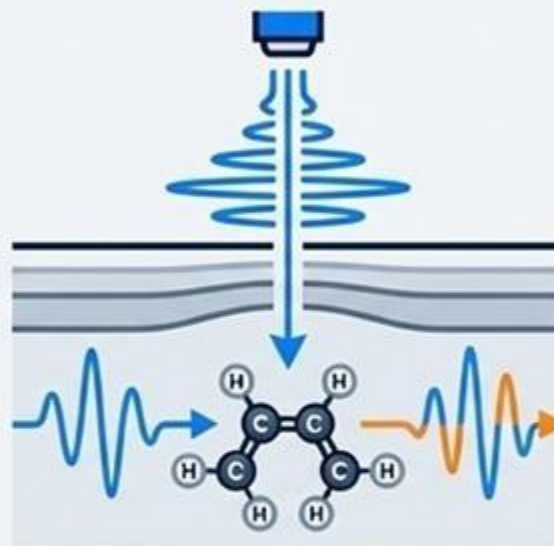


# Our 3-step process for direct hydrocarbon mapping.



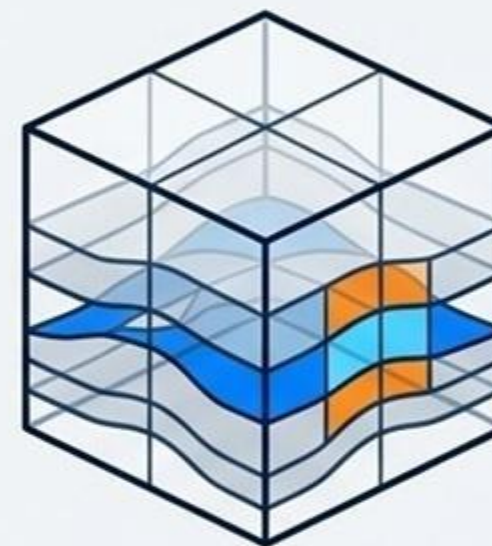
## Step 1: Satellite Image Processing

Analysis of satellite images (NASA, Roscosmos) with proprietary processes to amplify spectral anomalies associated with hydrocarbons.



## Step 2: Far Resonance Analysis

Induction of high-frequency electromagnetic fields to excite target atoms. Sequential recording of their characteristic resonance signal for unambiguous identification.



## Step 3: Modeling and Reporting

Compilation of data to create accurate 4D maps delineating potential accumulations and estimating volumes ("oil in place").

# Know-How: Radiochemical Processing of Satellite Images

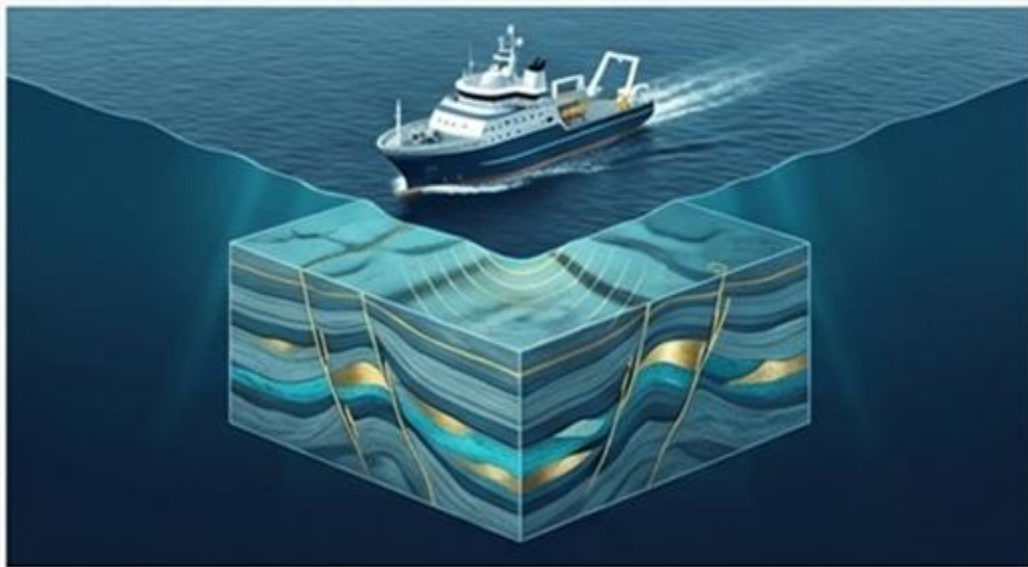


This patented process allows the satellite image to be 'filtered' to reveal only the areas where the target mineral is present, based on the resonance between the control plate and the deposit itself

"We map the container, hoping to guess the contents."

## The Seismic Paradox: More Data, Persistent Uncertainty

### The Fundamental Contribution of Seismics



Seismic methods (2D, 3D, 4D) have revolutionized our understanding of the subsurface, enabling structural imaging and the identification of traps.

### An Indirect Method by Nature



However, seismics remains based on the interpretation of anomalies. It does not directly detect hydrocarbons.

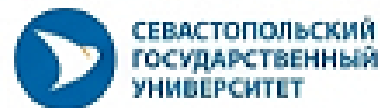


- Efficiency does not exceed 30-35%; 6 to 7 out of 10 wells are dry.



- Divergent interpretations of the same object lead to high-risk investment decisions.

**We are the only exploration methodology for polymetallic nodules on the seabed.  
We have made some interesting discoveries in the Black Sea!**



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## Video



Français

English

Castellano

Русский язык

<https://youtu.be/279fzMVnC-8>

<https://youtu.be/QVrneQGK-7o>

<https://youtu.be/g0HMRCAElyw>

<https://youtu.be/Bp4EndumKc4>



<https://youtu.be/JCJkWJfTzL0>



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<https://youtu.be/c6VZwmN8aDE>