



Paraguay: South America's Next Energy Frontier

An Investment Thesis on World-Class Shale Resources in the Chaco and Paraná Basins.

Three pillars underpin the investment thesis for Paraguay



The Magnitude

75 Tcf Gas and 3.7 Billion Barrels of Oil

Analysis of the EIA/ARI report validating vast potential



The Key

RSS-NMR Exploration Technology

The technological enabler that slashes upfront risk, reduces costs, and accelerates discovery.



The Catalyst

Strategic Timing

Ironclad legal frameworks and a volatile geopolitical environment create a closing window of immense opportunity.

An immense, globally significant resource remains entirely untapped.

75 Tcf

Technically Recoverable Shale Gas

3.7 Billion

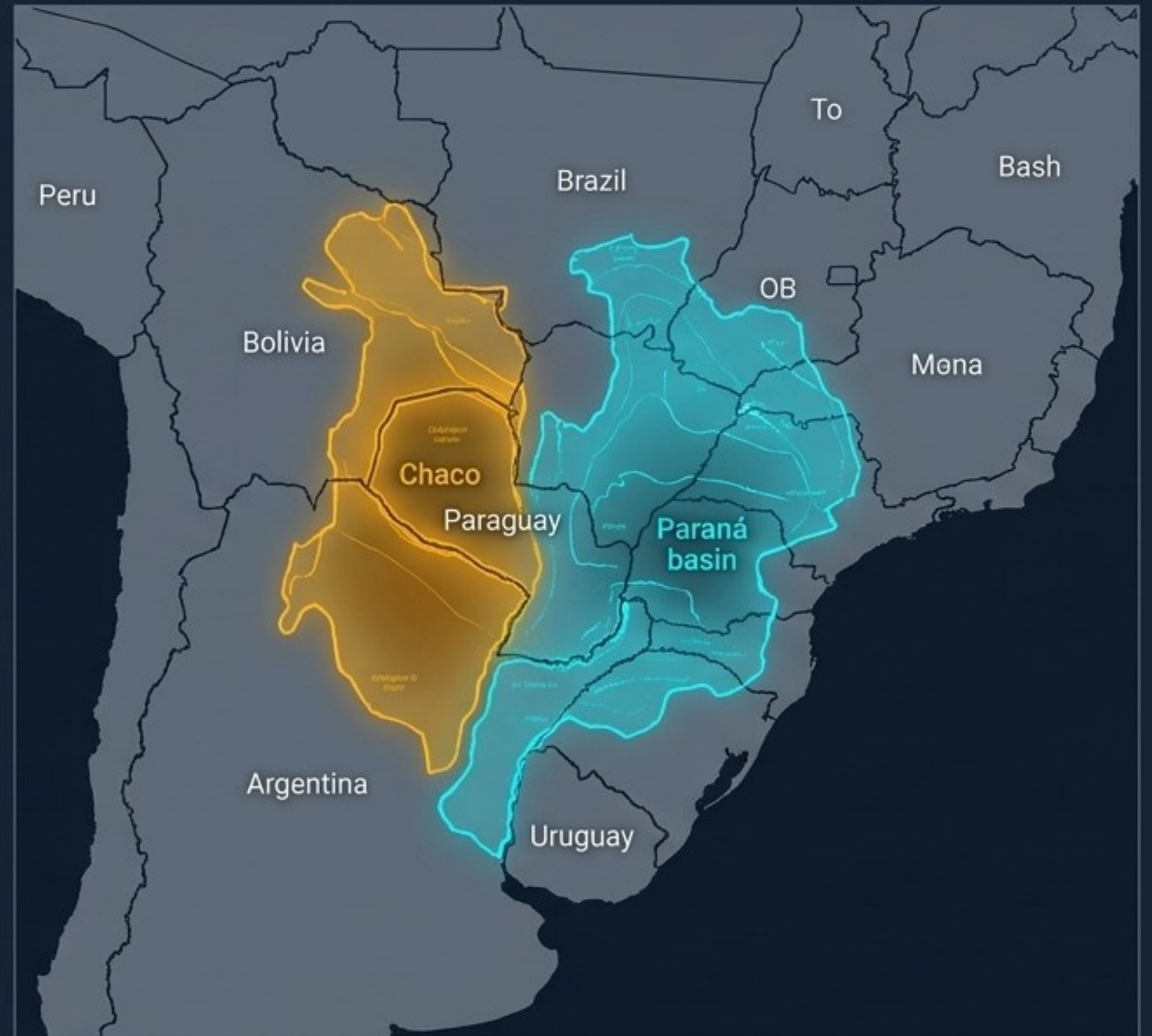
Technically Recoverable Barrels of Shale Oil



Officially confirmed by the U.S. Energy Information Administration (EIA) and Advanced Resources International (ARI).

Dossier Anomaly

Paraguay produces no oil or gas, despite its sedimentary basins being highly productive in neighboring Argentina and Bolivia. Only two conventional wells have been drilled in the country in the last 25 years.



Basin Diagnostic: Complementary assets with exceptional geological attributes.



Key Formation

Devonian Los Monos (Primary source rock for Bolivian mega-fields).

Devonian **Ponta Grossa** (TOC up to 4.6%).

Recoverable Scale

67 Tcf Gas / 3.2B bbl Oil

8 Tcf Gas / 0.6B bbl Oil

Favorable Geometry

Exceptional thickness (up to 12,000 ft, with 2,000 ft highly organic). Relatively simple vertical faulting without complex Andean thrusting.

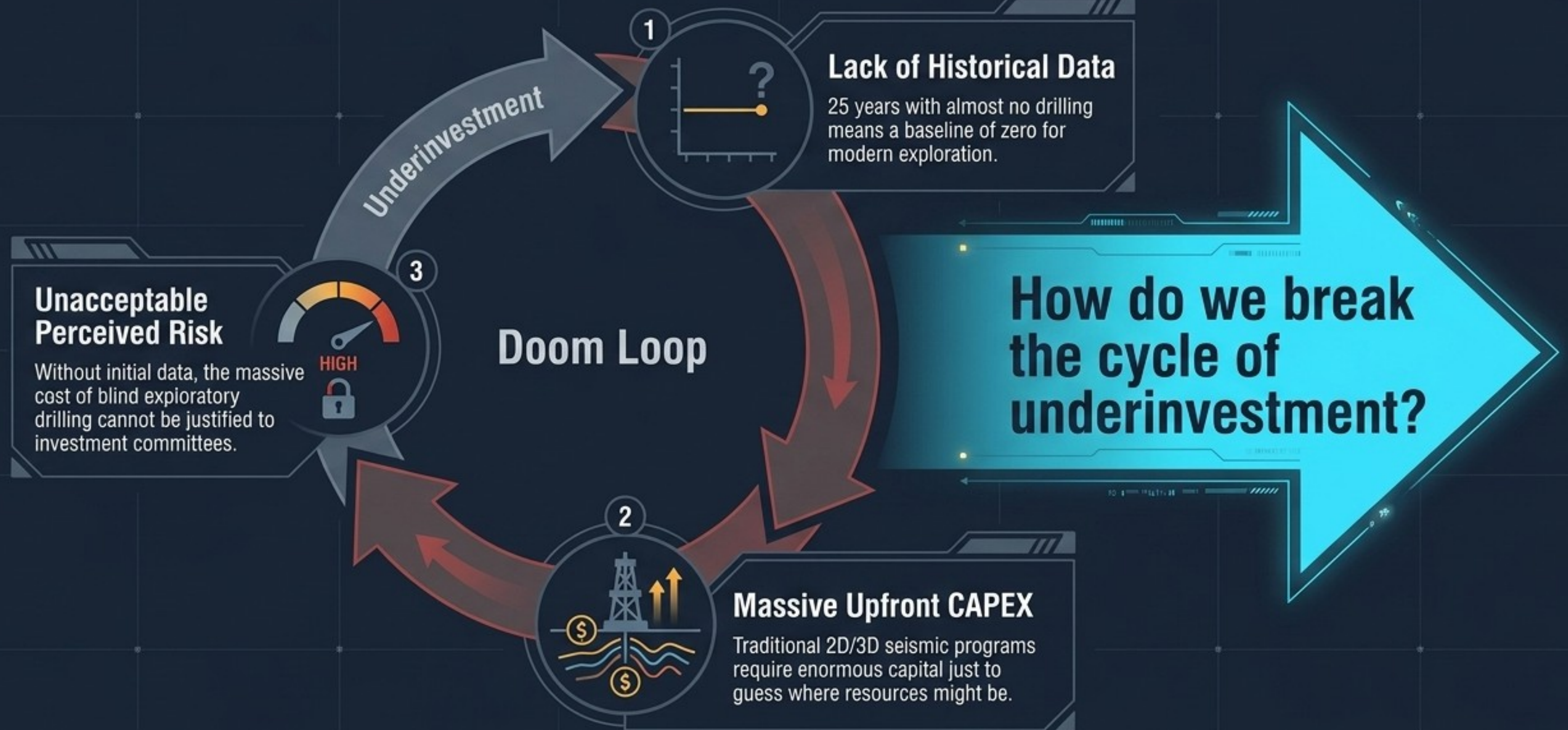
Depth profile of **10,000 to 13,000 ft.**

Operational Advantage

Massive concentration of volume.

Uniquely basalt-free on the Paraguayan side (unlike Brazil), drastically reducing seismic and drilling complexities.

The historic barrier: The cycle of blind capital expenditure



The 'Poisk' Complex: Direct material detection via RSS-NMR.

Core Concept

Traditional geophysics maps geological structures and guesses if they hold hydrocarbons.

The "Poisk" method applies Nuclear Magnetic Resonance (NMR) combined with Geospatial Remote Sensing to measure atomic spectra in the earth's magnetic field.

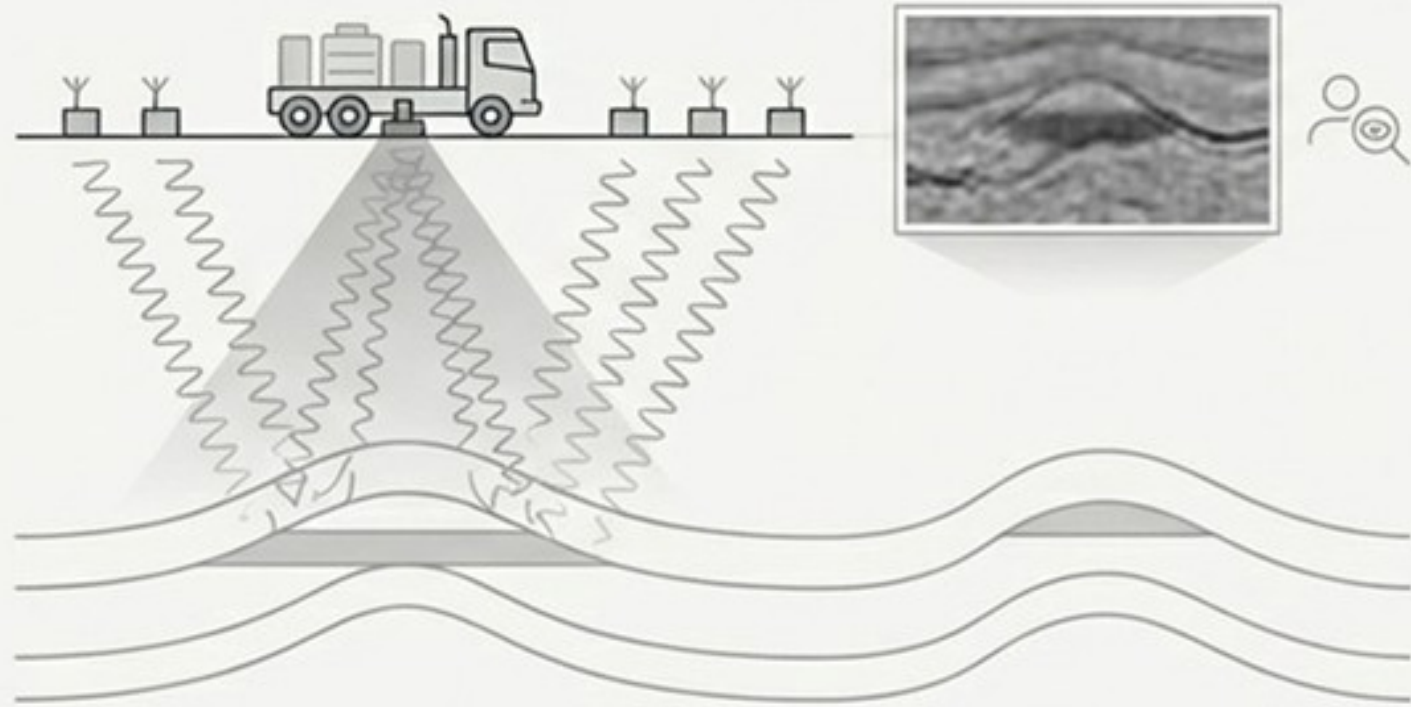
The Result: It definitively detects the specific type of mineral or fluid present in the subsurface.



The Breakthrough: From Interpreting Reflections to Detecting Resonance

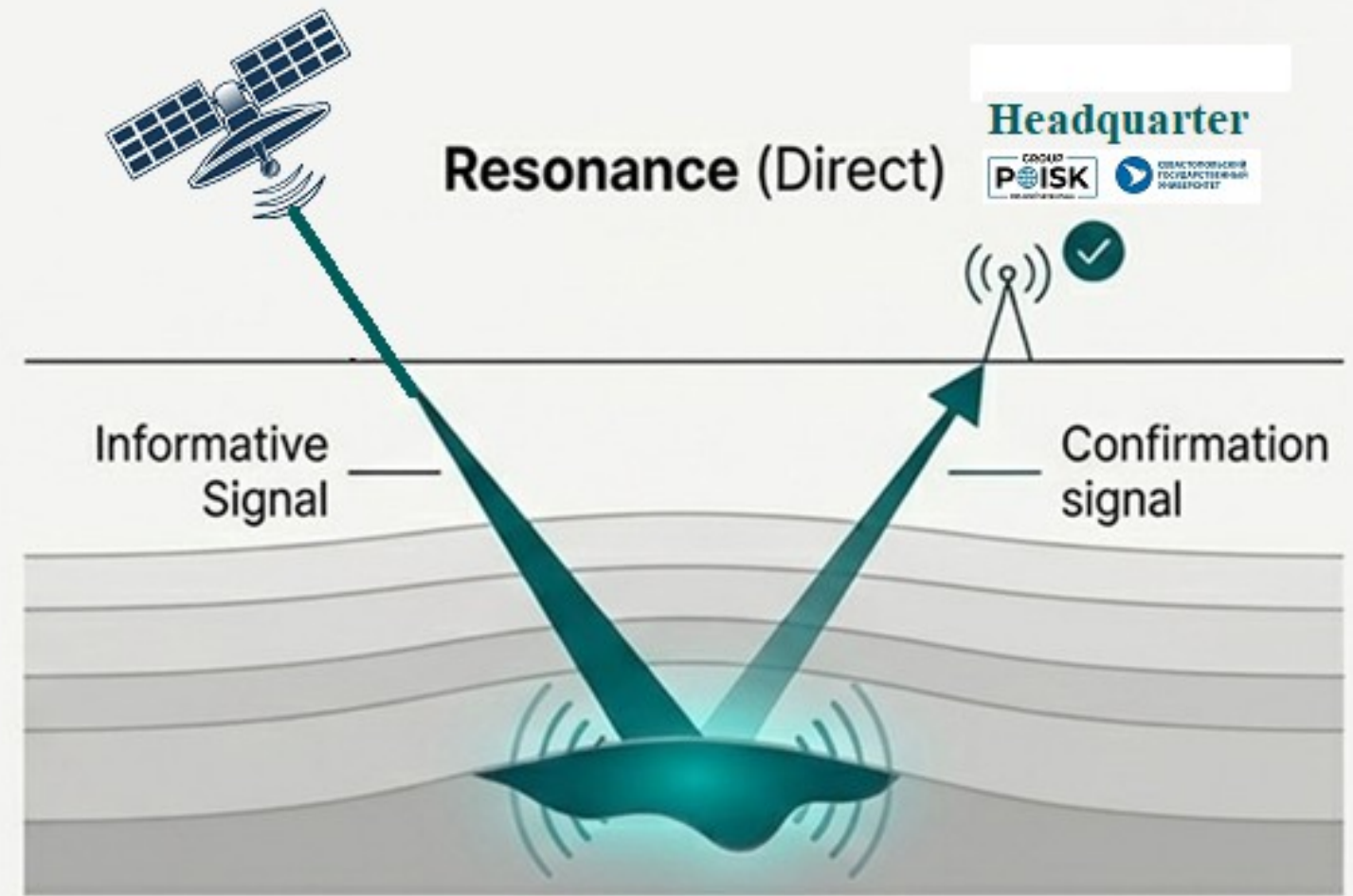
RSS/NMR is a direct detection method. Instead of interpreting echoes, we tune **into the specific signature of the target substance itself**, like tuning a radio.

Reflection (Indirect)



Sends a powerful, information-less “faceless signal” and interprets the echo from underground geological structures.

Resonance (Direct)

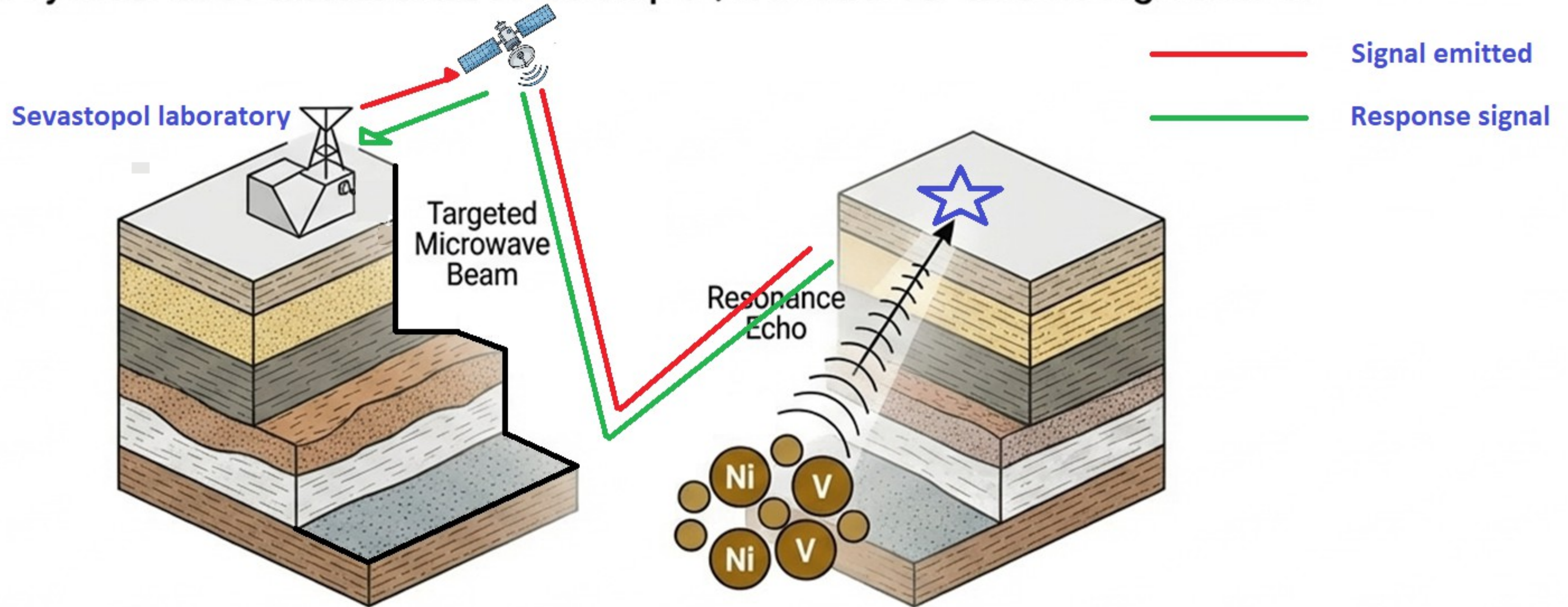


Transmits a narrowly focused signal tuned to the target substance (e.g., The target re-emits a confirmation signal that we detect with certainty.

“The main thing in our approach...is that we do not use the interpretation of indirect data, but directly determine the presence of the desired mineral in the subsurface.”

The Physics of the Poisk Complex

The system does not look for rock shapes; it listens for atomic signatures.



1. GENERATE

A surface microwave generator fires a gigahertz-frequency signal modulated with the resonant spectra of specific reference elements.

2. TARGET

The signal penetrates up to **7.000m**, seeking reference atoms native to specific hydrocarbons (Nickel, Vanadium, Carbon, Sulfur).

3. RESONATE

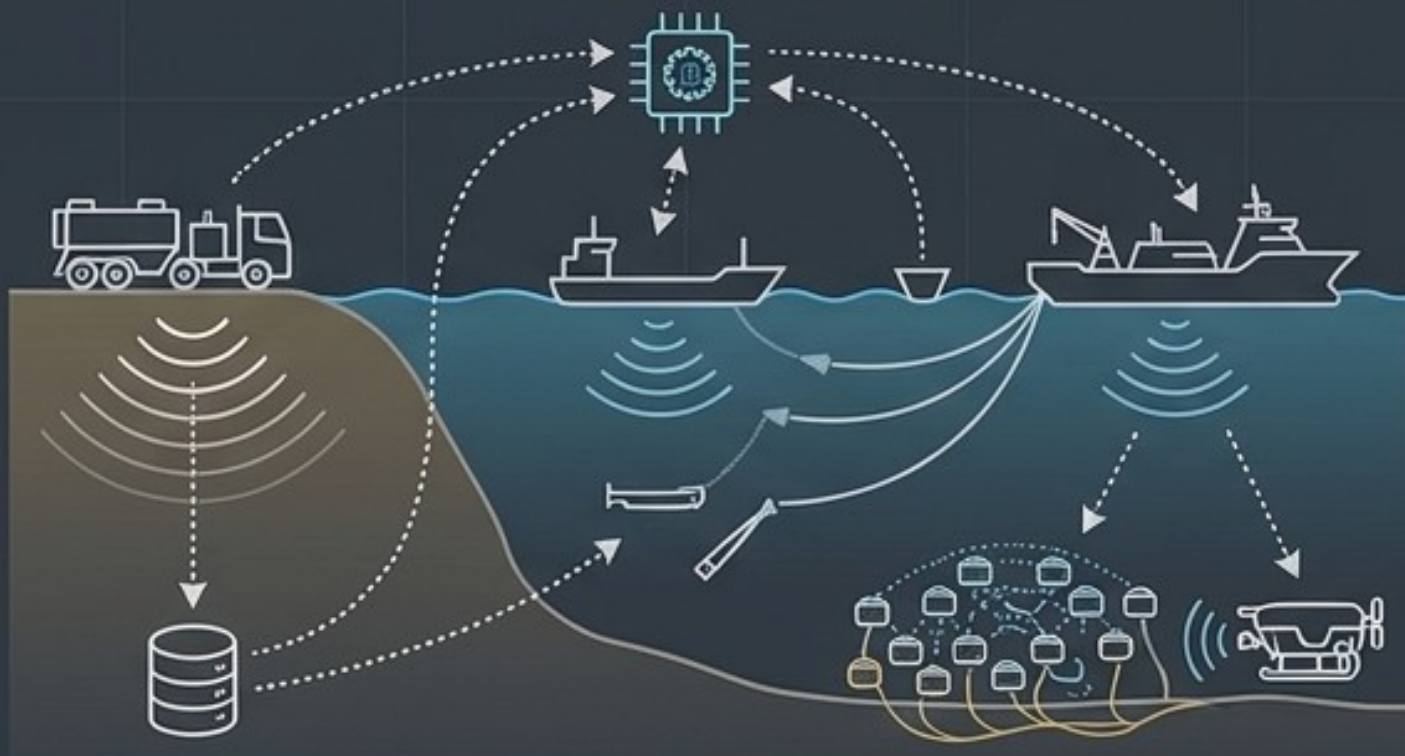
When the wave hits the exact reference atoms, they achieve Nuclear Magnetic Resonance (NMR), creating a distinct electromagnetic echo.

4. REGISTER

The highly sensitive surface receiver logs the amplitude of the returning signal, confirming the fluid type.

Redefining exploration: From brute force to surgical precision

THE OLD WAY



TRADITIONAL MODEL

Complex, slow, and indirect.

Complex, slow, and indirect. Relies on heavy logistics, massive land-use conflicts, and inferential data requiring extensive expert interpretation.

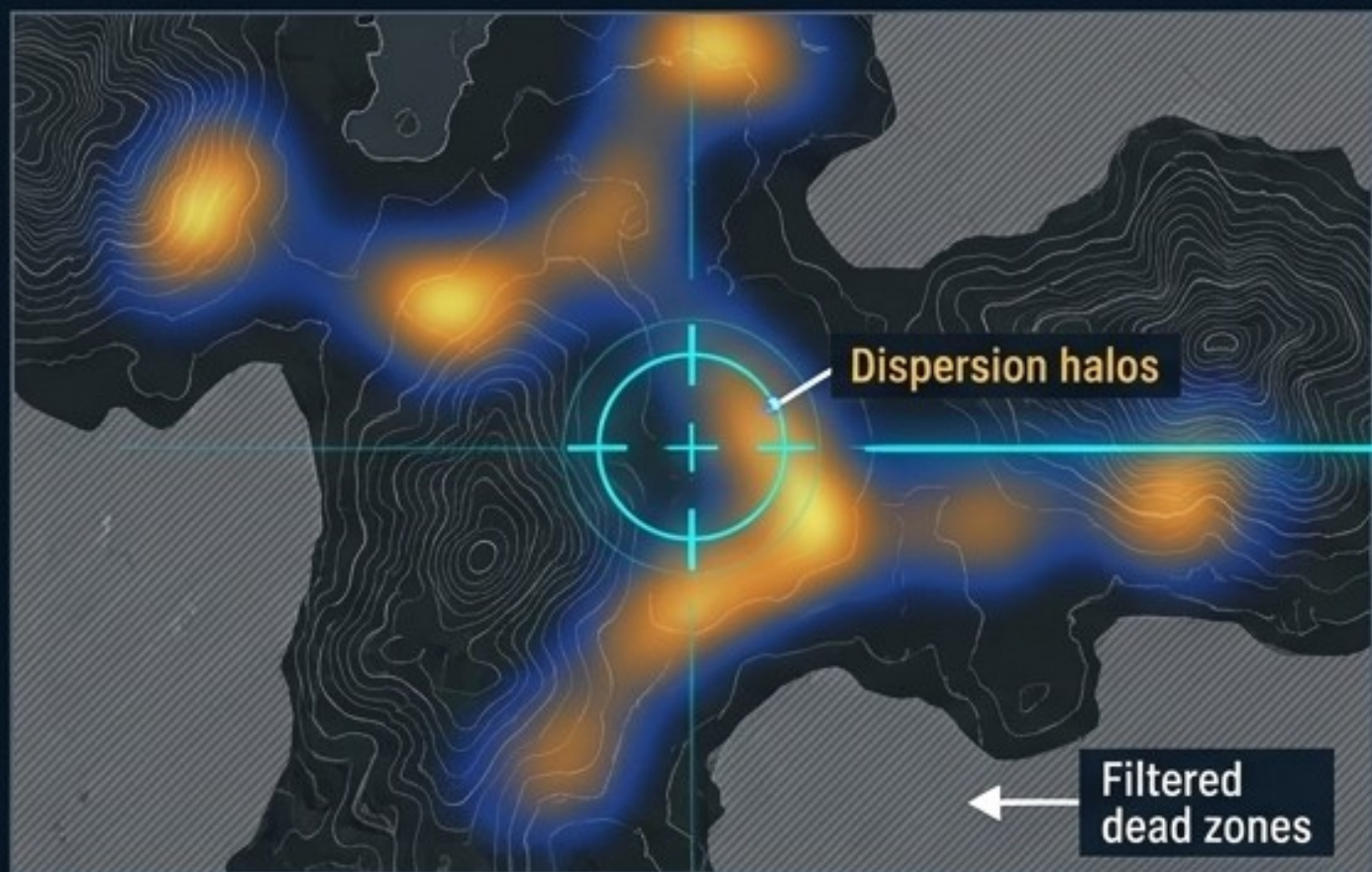
THE NEW WAY



- 1. TARGETED:** Direct fluid detection, ending blind drilling.
- 2. CAPITAL EFFICIENT:** Maximizes the return on every dollar by focusing entirely on the highest-probability targets.
- 3. ENVIRONMENTALLY RESPONSIBLE:** Negligible footprint, eliminating the noise, disruption, and carbon overhead of traditional massive surveys.

The RSS-NMR deployment vector: From macro sweep to micro targeting.

Phase 1 - Remote Geochemistry (Macro)



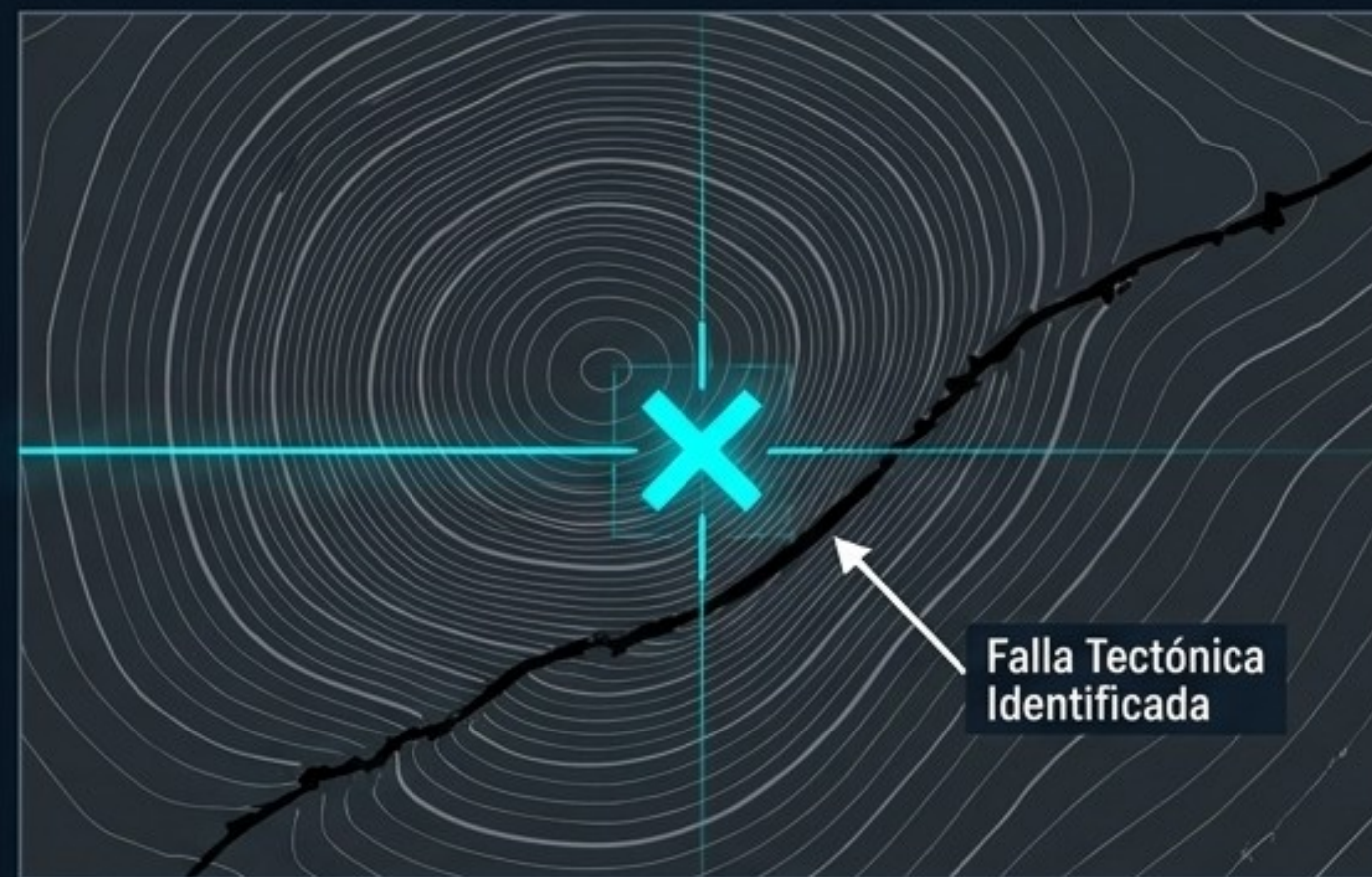
1. METRICS:

Sweeps vast territories. Rapidly filters out non-viable zones. Produces conclusive viability.

2. TIMELINE:

Up to 2 months.

Phase 2 - Delineation & Precision (Micro)



1. METRICS:

Fine aiming. Delivers exact drilling coordinates, confirms depths up to 7,000 meters, and identifies industrial concentrations.

2. TIMELINE:

2 to 3 months.

Optimizing the geophysics stack to minimize CAPEX

RSS-NMR does not replace high-resolution imaging; it makes it exponentially more profitable by focusing it precisely where resources are confirmed.



Magnetotellurics (MT)

Repositioned as a deep calibration tool used only in limited, pre-validated transects.



RSS-NMR



Ocean Bottom Nodes (OBN)

Deployment area shrinks significantly to highly specific zones, massively reducing acquisition CAPEX.



Terrestrial Seismic (Vibroseis)

The required seismic grid is drastically reduced and tightly focused, simplifying logistics and crew deployment.

The strategic window: Global volatility meets legal certainty.

The Market Catalyst (Geopolitics)



Energy embargoes and European instability have **shattered traditional supply monopolies**. Developing nations utilizing rapid-deployment tech (RSS-NMR) have a unique window to monetize resources quickly while global demand guarantees high premiums.

The Legal Foundation (Security)



De Jure Borders: The April 2009 treaty signed between Bolivia and Paraguay definitively closed all territorial disputes.

Rule of Capture: International precedent dictates that the operator of the unit acquires legal possession of the extracted minerals, governed strictly by Paraguayan internal law on the Paraguayan side of the border.

The execution roadmap to commercialization.

Phase 1: Prospect Identification & Prioritization

Timeline: Months 3-6

Action:

Complete RSS-NMR sweep of the most prospective areas in the Chaco and Paraná basins.

Deliverable:

Validated hydrocarbon anomaly map and a prioritized prospect ranking.

Phase 2: Targeted Seismic Program

Timeline: Months 6-9

Action:

Acquire limited 2D/3D seismic data focused only on the Phase 1 prioritized targets.

Deliverable:

High-quality, de-risked data ready for well planning at a fraction of traditional costs.

Phase 3: Exploratory Drilling Program

Timeline: Months 12-18

Action:

Design and execute drilling on the de-risked objectives.

Deliverable:

Proof of the petroleum system and ultimate commercial validation of Paraguay's shale resources.

Month

3

6

9

12

18

The convergence of resource, technology, and opportunity

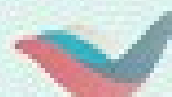
**World-Scale
Resource**
(75 Tcf /
3.7B bbl)

**Technological
Enabler**
(RSS-NMR risk
reduction)

**Paraguay's
Energy
Leadership**

Strategic Moment
(Legal clarity & high
global demand)

The development of these resources represents a path to national self-sufficiency and economic dominance. The question is not if Paraguay has the resources, but who will have the vision to develop them. **The time is now.**



Made in Russia

Voluntary certification system «Made in Russia» Registered in the Unified Register of registered voluntary certification systems Reg. № РОСС RU.3185.04P003 from the 24th of May 2017

Система добровольной сертификации «Сделано в России» зарегистрирована в Едином реестре зарегистрированных систем добровольной сертификации Рег.№ РОСС RU.3185.04P003 от 24 мая 2017 г.

CERTIFICATE OF CONFORMITY СЕРТИФИКАТ СООТВЕТСТВИЯ

№ CC.000447
Valid from 20.10.2025 to 05.10.2028
Срок действия с 20.10.2025 по 05.10.2028

Applicant/Manufacturer: Peak Group LLC, 299640, Russia, Sevastopol, st. Khristofora, 143
Заявитель/Производитель: ООО «ГРУППА ПИК», 299640, Россия, г. Севастополь, ул. Христофора, д. 143

Product: Methodology for calculating predicted ore reserves in deep-lying deposits, using the parameters of ore bodies obtained using remote geospace methods of geological exploration and field geophysical equipment of the Peak complex (EACH of the CU 90180900)
Продукт: Методика расчета прогнозные ресурсы руд в глубинных залежах, с использованием параметров рудных тел, полученных с помощью дистанционных геоспациальных методов геологического изучения и полевой геофизической аппаратуры комплекса "Пикс" (Каждый из объектов ЕАЭС 90180900)

Comply with the voluntary certification system "Made in Russia" requirements.
Соответствует требованиям Системы добровольной сертификации «Сделано в России».

Certificate is issued on the basis of: Declaration of conformity company Peak Group LLC on the Reliability of the voluntary certification system "Made in Russia" dated 02.10.2025 No.1/26.
Сертификат выдан на основании: Декларации о соответствии компании ООО «ГРУППА ПИК» № 1/26 от 02.10.2025 по направлению "Надежность" системы добровольной сертификации "Сделано в России".

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СИСТЕМА ДОБРОВОЛЬНОЙ СЕРТИФИКАЦИИ «ПРИВНО-ЭКСПЕРТ»
Рег. № РОСС RU.3185.04P003 от 14.10.2016 г.



СЕРТИФИКАТ СООТВЕТСТВИЯ

№ РОСС RU.3185.04P003
Срок действия с 20.10.2025 по 05.10.2028
№ 0057630

ОБЪЕКТ ПО СЕРТИФИКАЦИИ: ПОСРЕДСТВО ПОИСКА
Срок и условия сертификации: ООО "ГРУППА ПИК", Адрес: 140000, РОССИЯ, Московская область, городской округ Солнечногорск, улица Октябрьская, д.143, кв.14, помещение 01. Телефон: +7(495)937-4747, адрес электронной почты: info@madeinrussia.ru

ПРОДУКТ: Методика расчета прогнозные ресурсы в глубинных залежах с использованием параметров рудных тел, полученных с помощью дистанционных геоспациальных методов геологического изучения и полевой геофизической аппаратуры комплекса "Пикс"

№ ЦС
01.11.11

СООТВЕТСТВИЕ ТРЕБОВАНИЯ НОРМАТИВНЫХ ДОКУМЕНТОВ

№ ЦС
01.11.11

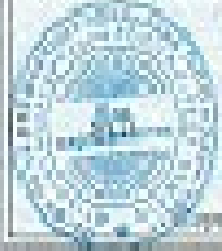
ИЗГОТОВИТЕЛЬ: Общество с ограниченной ответственностью «Группа Пикс», ОГРН: 1102000000000, ИНН: 5007000000, адрес: 200000, РОССИЯ, город Севастополь, ул. Христофора, д. 143, телефон: +7(495)937-4747, адрес электронной почты: info@madeinrussia.ru

СЕРТИФИКАТ ВЫДАН: Общество с ограниченной ответственностью «Группа Пикс», ОГРН: 1102000000000, ИНН: 5007000000, Адрес: 200000, РОССИЯ, город Севастополь, ул. Христофора, д. 143, телефон: +7(495)937-4747, адрес электронной почты: info@madeinrussia.ru

НА ОСНОВАНИИ: Протокол заседания № 0057-04/2025 от 20.10.2025 года, проведенный Национальным экспертным Центром системы добровольной сертификации «ПРИВНО-ЭКСПЕРТ» (регистрационный номер РОСС RU.3185.04P003)



ДЕКЛАРАЦИЯ О СООТВЕТСТВИИ
Срок сертификации: 1



Руководитель, орган
Директор

Handwritten signature

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руководитель
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руководитель

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- In Charge: World

VERSATILITY OF APPLICATION



HYDROCARBONS

Oil
Gas
Condensed



PRECIOUS METALS AND BASES

Gold
Copper
Lithium
Nickel



STRATEGIC

Uranium
Diamonds
Coal



WATER RESOURCES

Drinking Water
Underground
Geothermal

The technology eliminates false positives by identifying the specific type of mineral.