GROUP POISK
RSS-NMR SEVSU Poisk

SEVASTOPOLSKY GOSUDARSTVENNYY UNIVERSITET

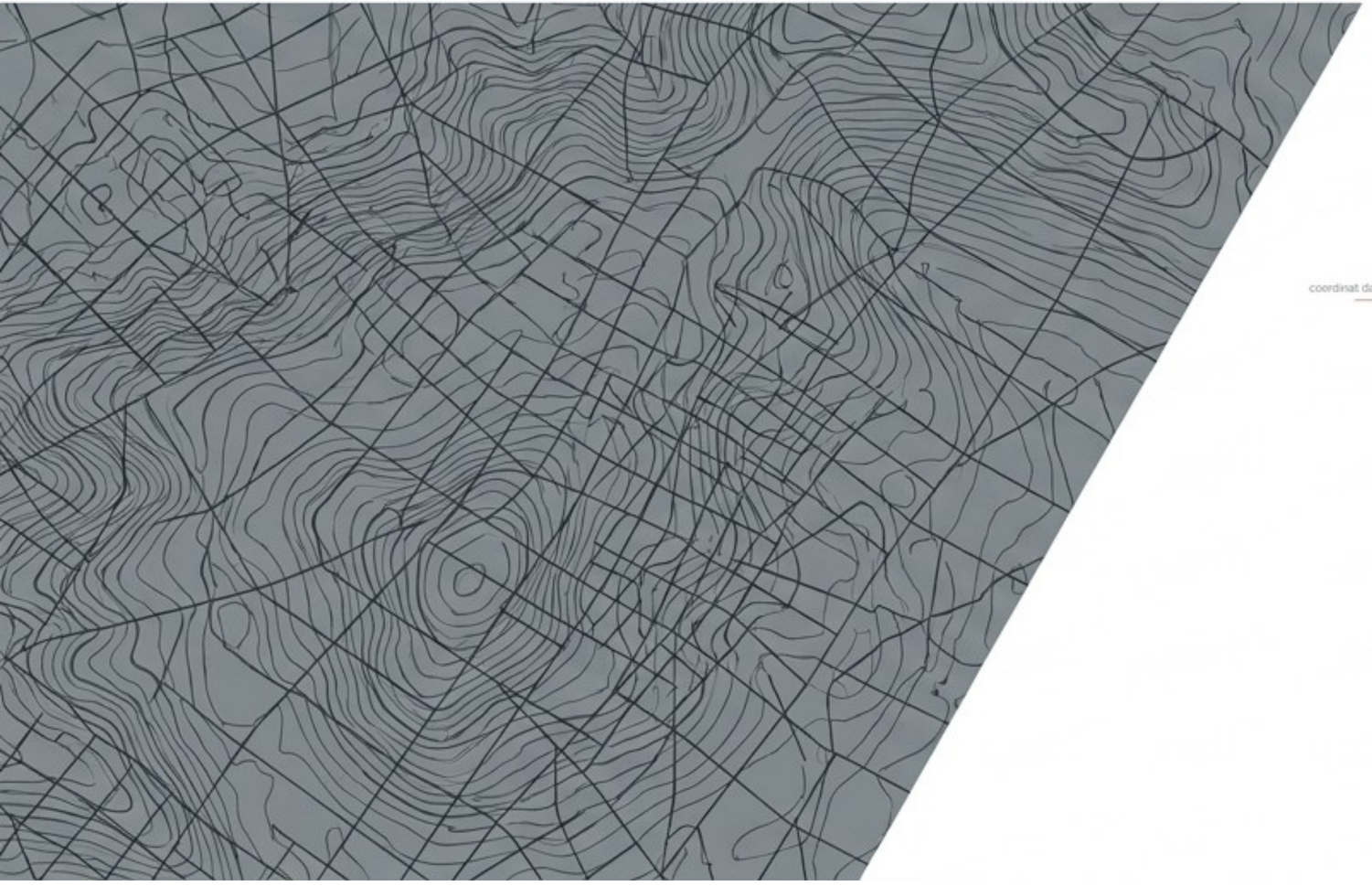
See what others don't.

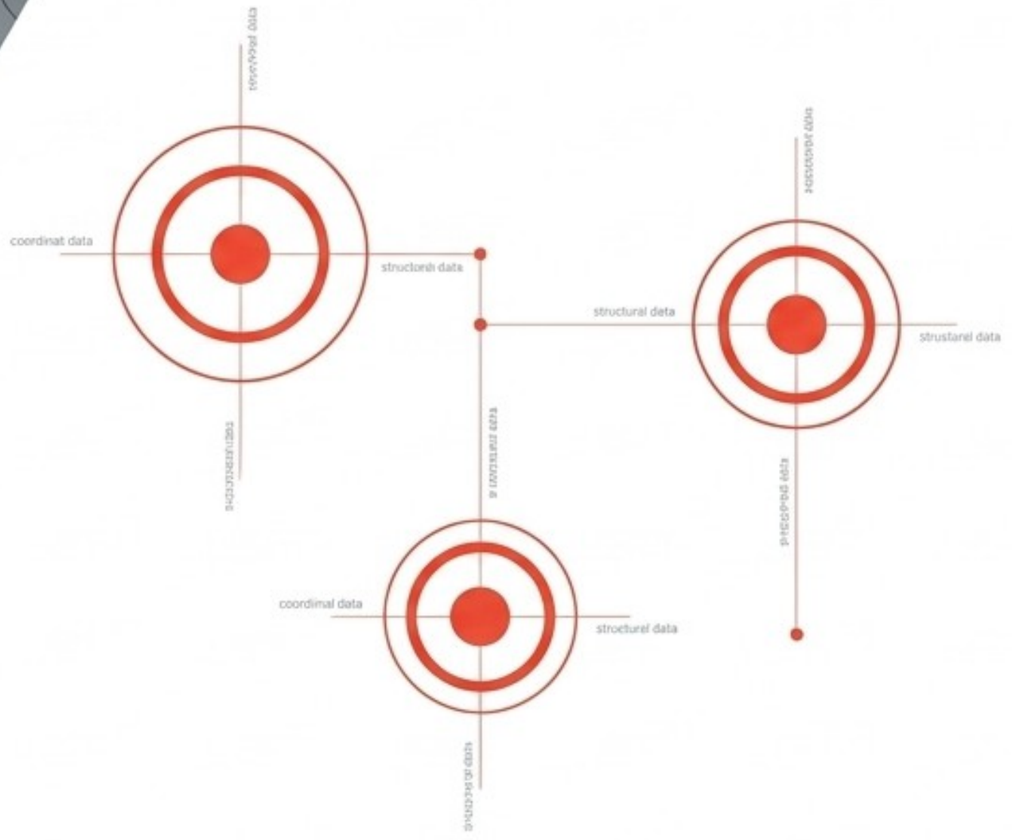
Exploration no longer has to be a gamble. It's now a science of detection. Contact us to apply the power of direct detection to your territories.

RSS NMR
THE SIMPLE WAY OF EXPLORATION

The End of Blind Exploration

The strategic shift from global seismic coverage to targeted direct detection.





The Industry Has Always Doubted True Revolutions

1930s Seismic Exploration

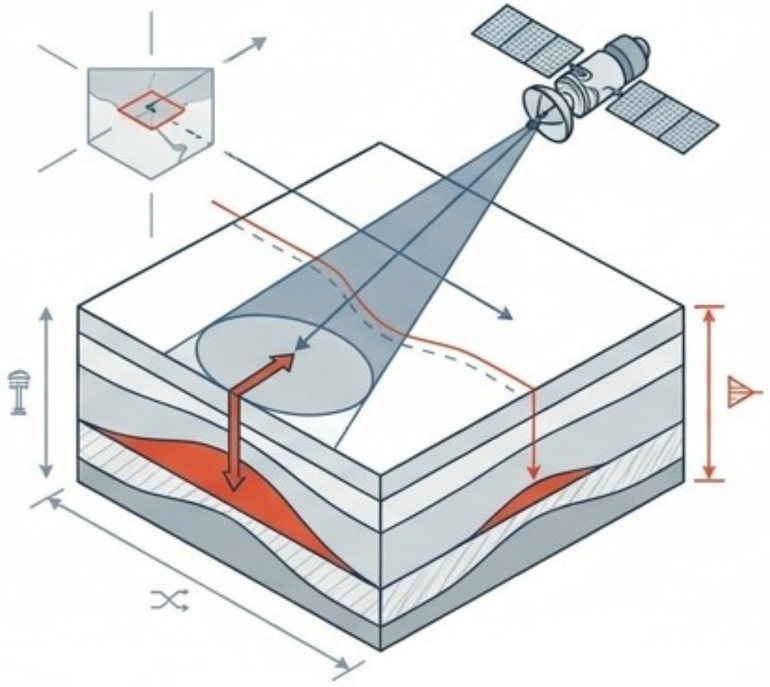
Analog, Physical, Doubted

"Reflections weren't even considered equivalent to a magic wand... the traditional base was preferred."

– Jack Trumpa, early defender of reflection seismology (1920s)

Modern Exploration

Aerospace, Digital, Precise



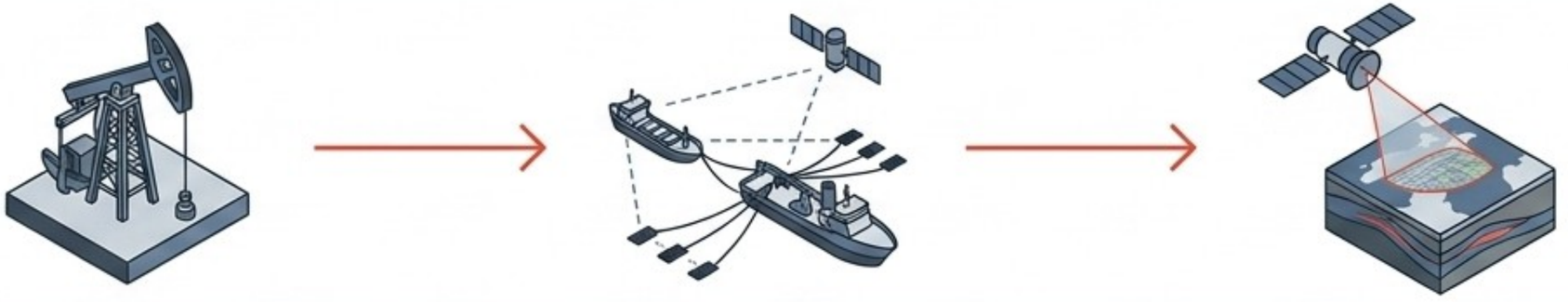
In 1924, seismic was an aberration. **Today, it is the norm.**
Evolution does not stop at seismic.

The Inevitable Evolution of Diagnostics

Communication

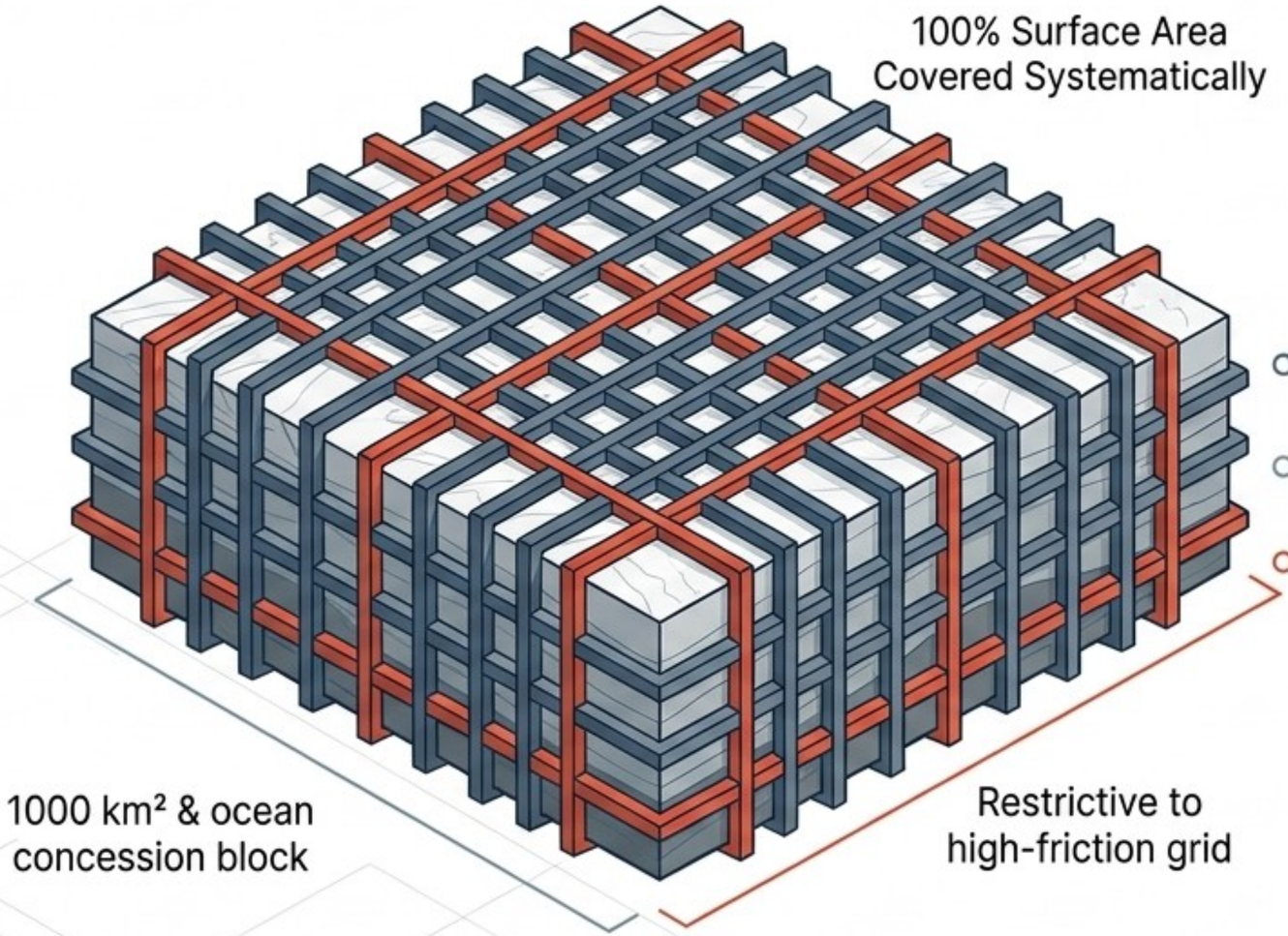
Medicine

E&P Exploration



The universal technological trend is miniaturization, deployment cost reduction, and direct data access before any heavy intervention.

The Financial Burden of Total Coverage



Heavy CapEx

Massive initial investments required before proving the economic viability of fluids.

Logistical Nightmare

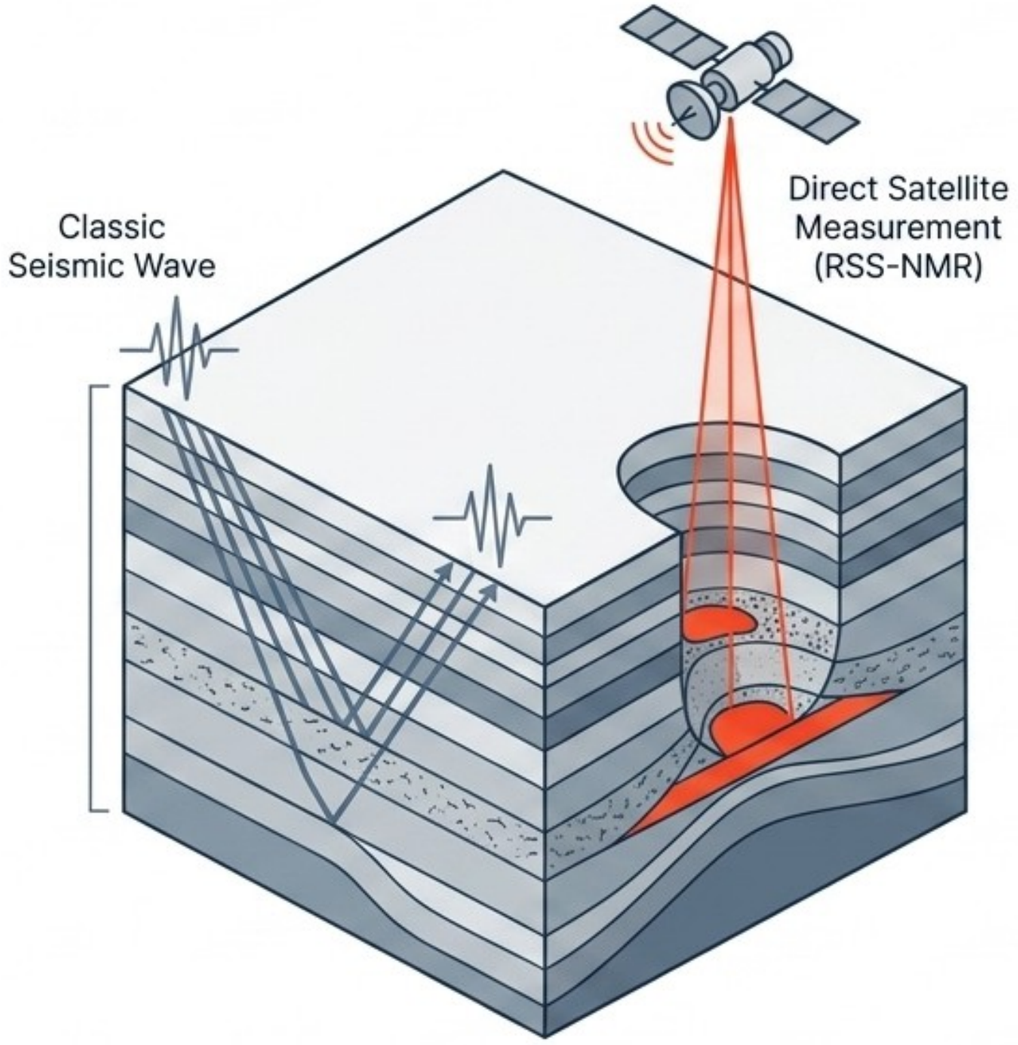
Months of acquisition, vessel availability, climate delays, and OBN fleet mobilization.

ESG Pressure

Maximum environmental footprint (marine noise, land disturbance, complex permitting).

Current methods provide excellent geometric proxies, but demand scanning 100% of an unknown area just to hope for a discovery.

Measuring Fluids, Not Just Rock



Classic Methods (OBN / Stryde / MT)

Measures physical structures and resistivity contrasts.

Answers: Is there a trap?

RSS-NMR Physics

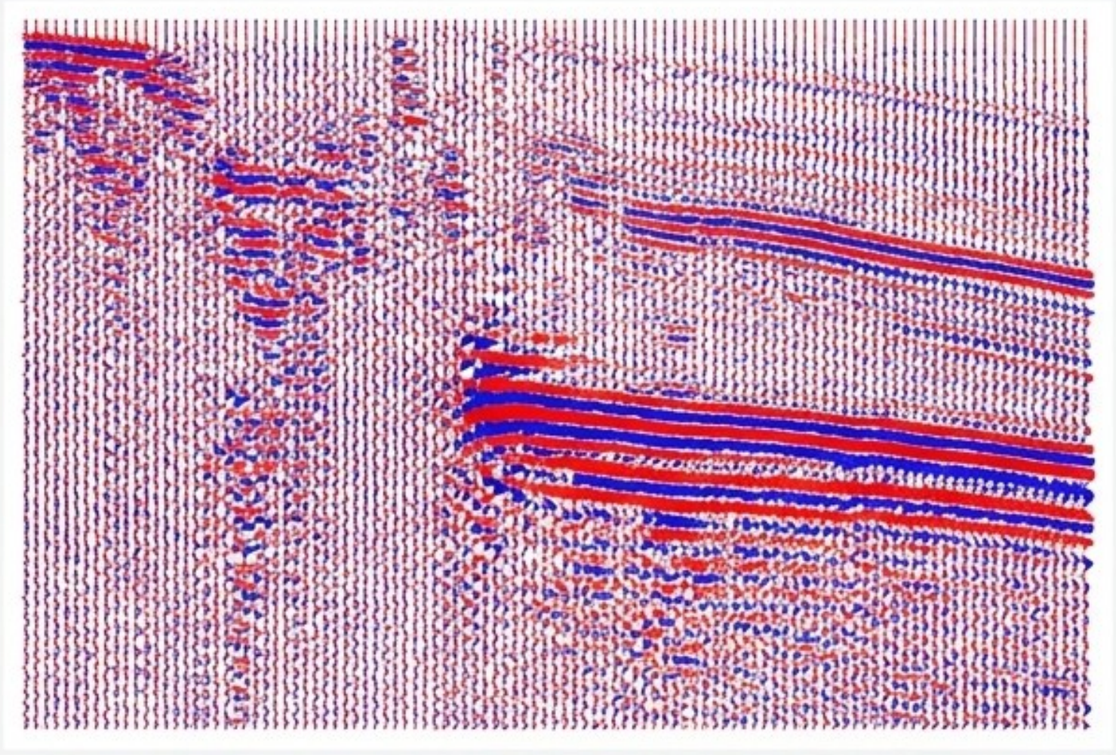
Direct measurement via hydrogen resonance in the pores.

Answers: Is there free oil, gas, or water?

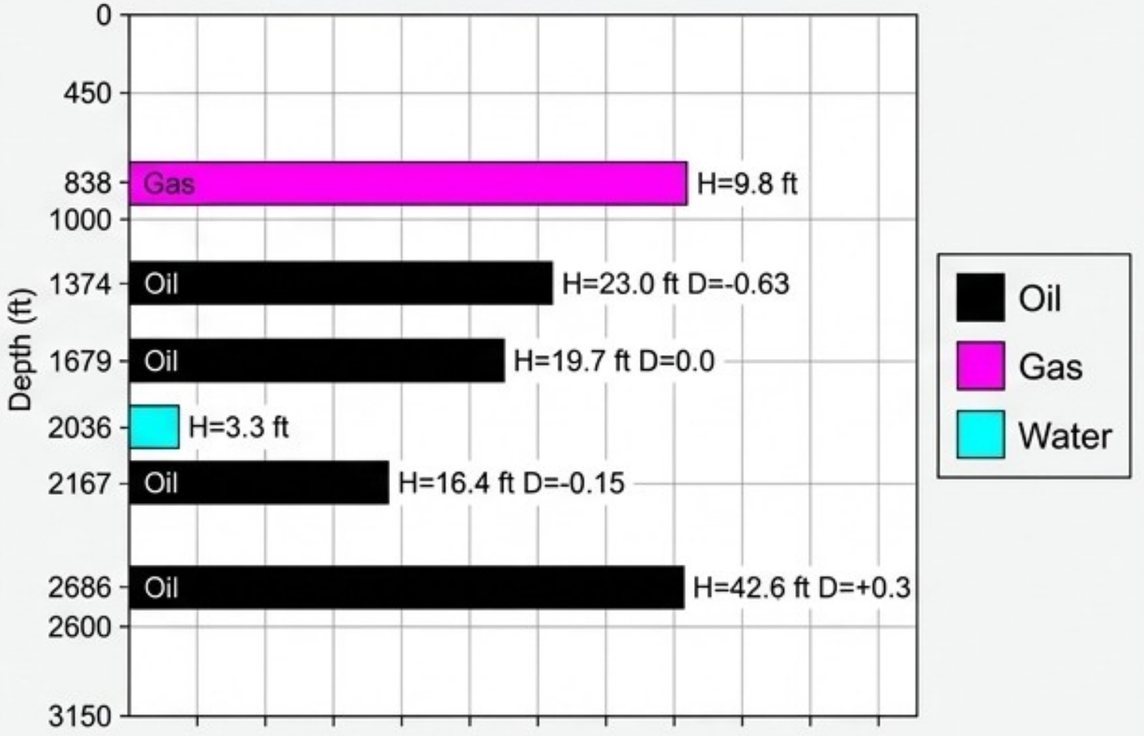
RSS-NMR Performance: Delineates anomalies up to 7 km deep. 60-80% reliability post-remote sensing, reaching 90% after field validation.

From Complex Interpretation to Direct Illumination

Seismic Data: Heavy interpretation required. (Where is the fluid?)



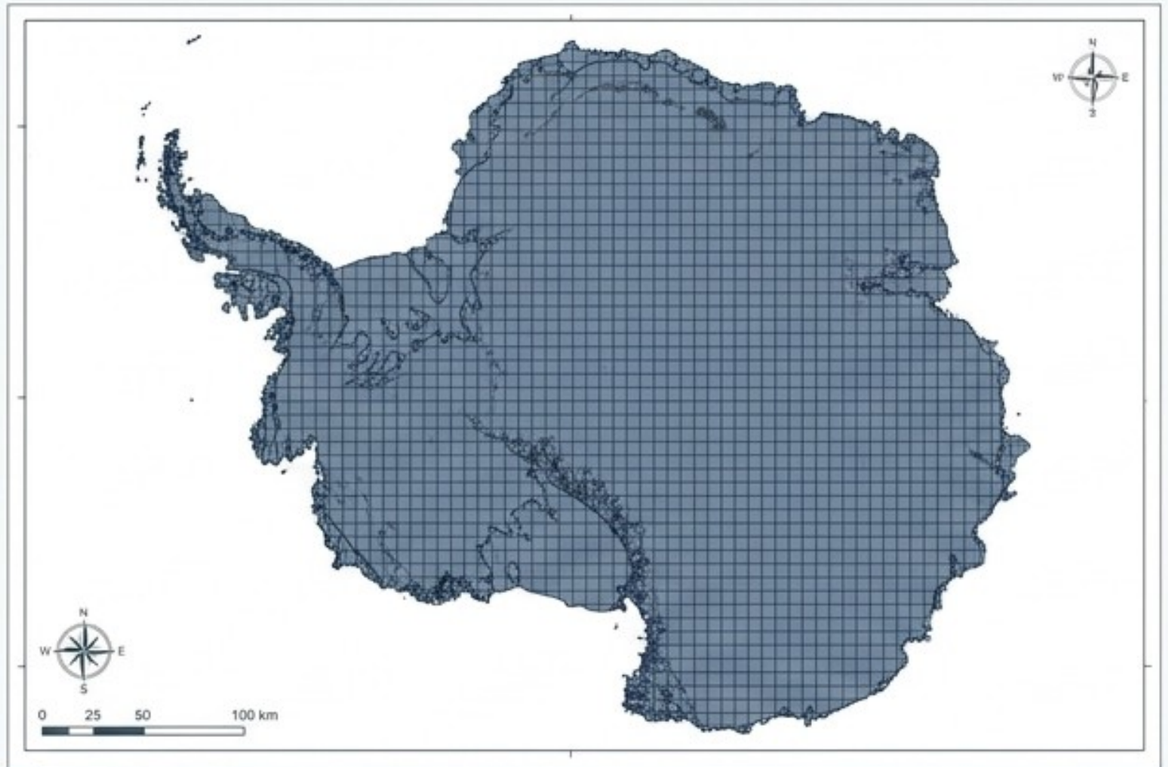
RSS-NMR: Direct, depth-calibrated reading. (Presence validated.)



Remote sensing does not guess; it directly characterizes reservoirs with hydrostatic pressure estimations.

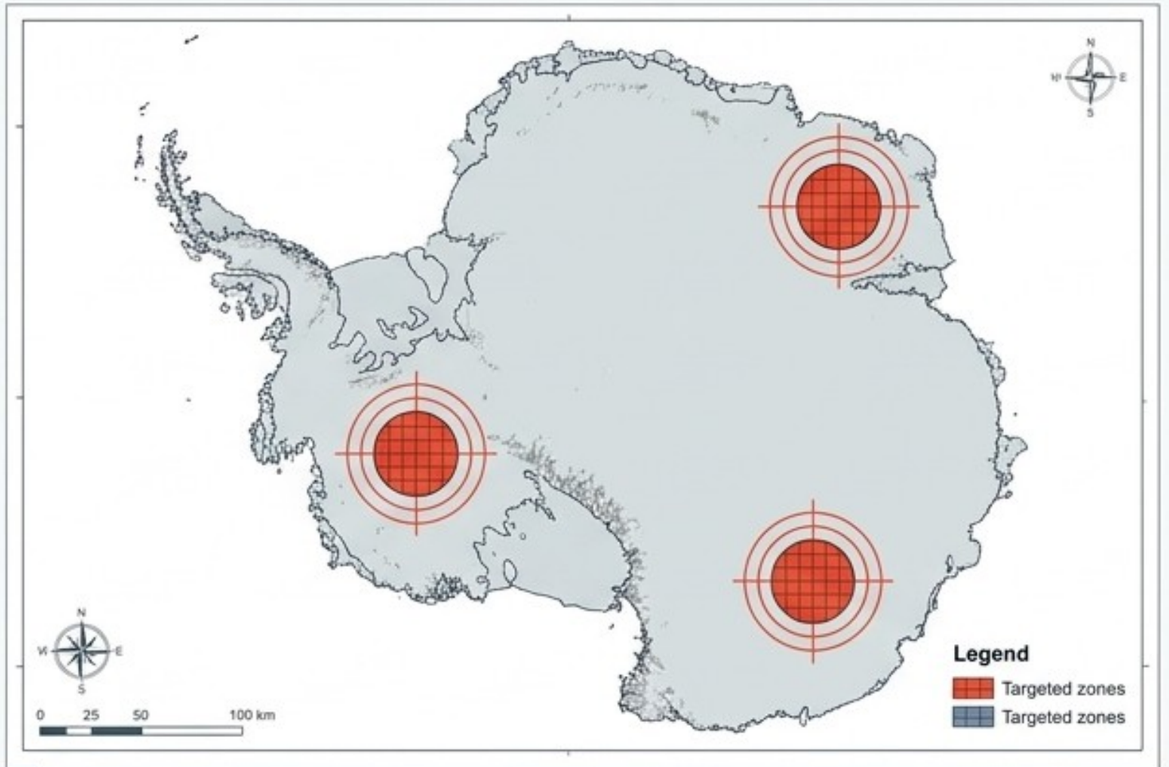
Everything Everywhere vs. Targeted Intelligence

Step 1 (The Past): Systematic Seismic



100% Surface Coverage.
Global scale, high costs, prolonged timelines.
High geological risk spread over the entire area.

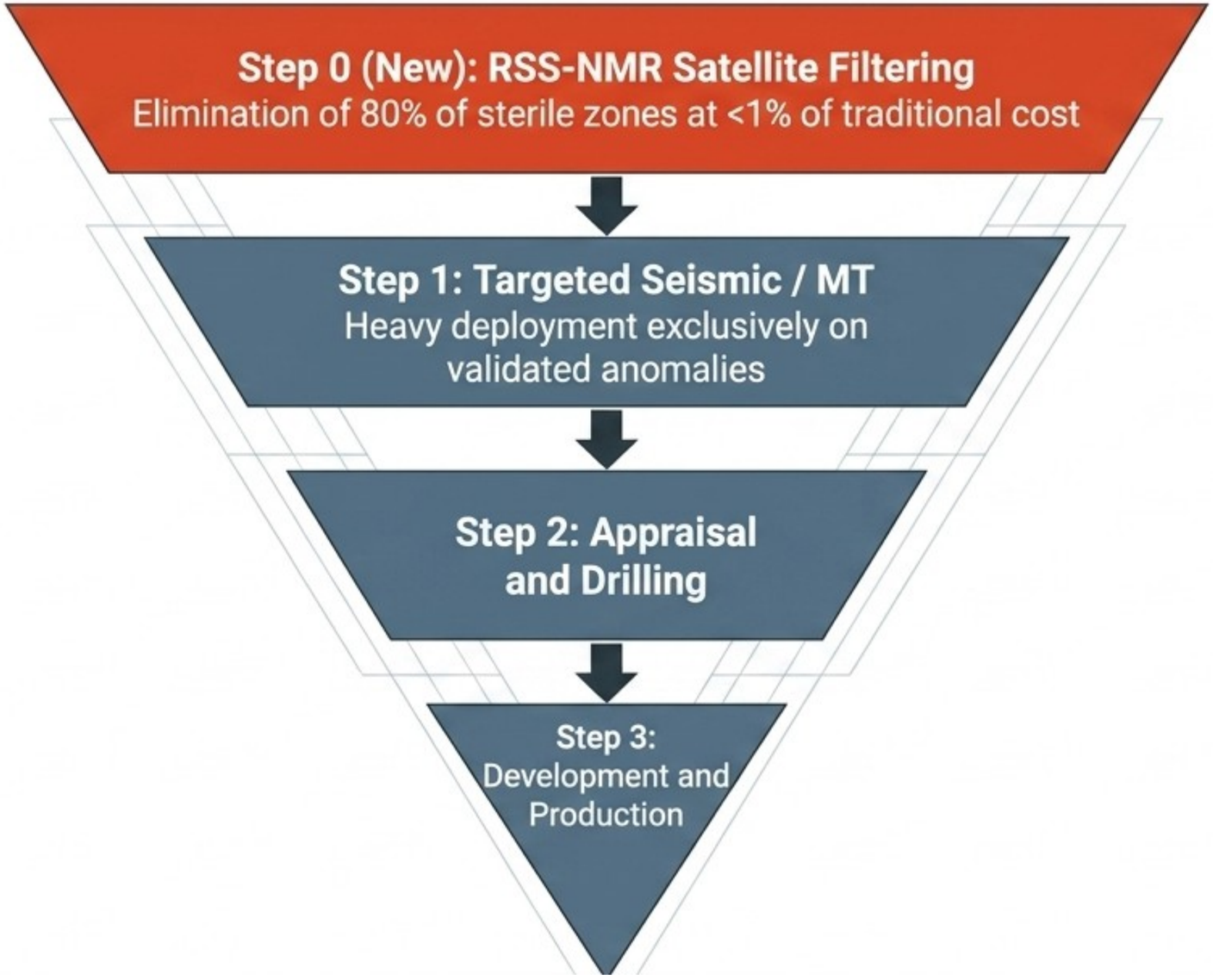
Step 2 (The Future): Targeted Seismic



10-20% Surface, validated by RSS-NMR.
Acquisition focused solely on high-potential zones.
Massive reduction in time and cost.

Transform seismic vibration from a blind constraint into a high-profit surgical strike.

The Architecture of the New Exploration Cycle



By inserting RSS-NMR upstream of seismic programs, portfolio managers reduce the coverage area, prioritize high-potential campaigns, and gain absolute flexibility against operational constraints.

A Synergistic Exploration Ecology

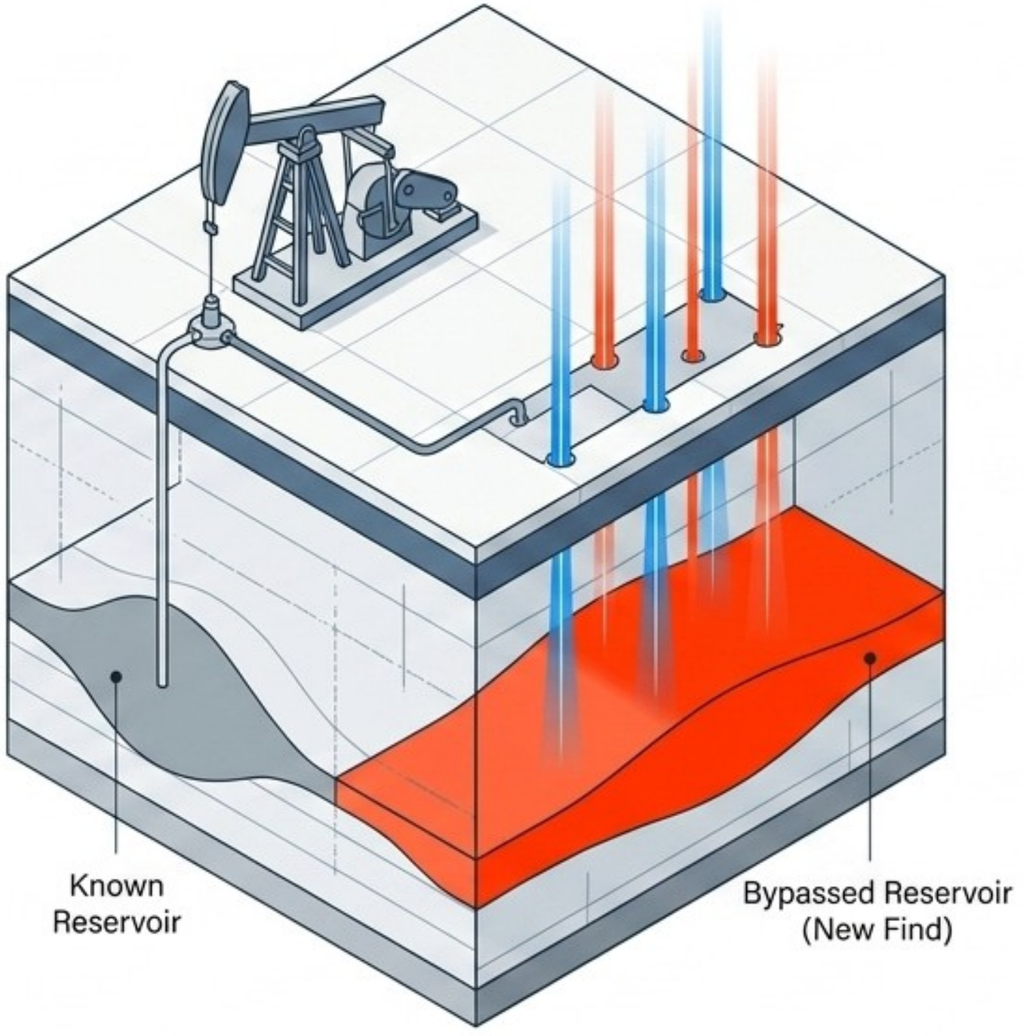
	OBN / Land Seismic	Magnetotelluric (MT)	RSS-NMR
Main Objective	High-Res 3D Mapping	Deep Calibration / Resistivity	**Pre-selection & Fluid Identification**
Target Detected	Geometry & Faults	Conductive Structures	Direct Hydrocarbons / Water
Cost per km²	Very High	Moderate	<1% of classic methods ↑
Strategic Role	The Detailed Magnifying Glass	The Deep Anchor	**The Global Radar Filter**

Re-exploring Mature Assets Without Interruption

Brownfields & Old Concessions: Conduct new exploration on actively producing blocks without ever halting current operations.

Detecting Blind Spots: Identify bypassed zones or reservoirs completely missed by initial historical seismic studies.

The Advantage: Rapid modification of the production network under existing, established operational documentation and permits.



The Economic and Operational Imperative

CapEx Reduction

Survey cost is less than 1% of a conventional geophysical program.

Time Acceleration

Drastic reduction in acquisition delays, processing time, and the overall seismic calendar.

De-risking

The heavy budget of OBN/Vibroseis is spent exclusively on proven hydrocarbon anomalies.

ESG Alignment

Radical decrease in marine noise, surface disturbance, and overall environmental footprint.

The New Standard of Pragmatism

The combination of remote sensing and nuclear magnetic resonance is no longer a theory. It is the baseline tool for characterizing resources before committing heavy assets.

The question is no longer whether to deploy seismic, but why deploy it over sterile zones?

The New Standard: Satellite Filtering is the mandatory ‘Step 0’ of profitability.

Optimizing your E&P company's expenses means protecting its capital and investment capacity, therefore its viability and survival. We live in a world that no longer allows waste through inappropriate, capricious, or unjustified choices. By applying this simple rule, you are primarily defending your job and your future through smart and sometimes bold choices.

Reducing seismic costs allows for better development of productivity, therefore increasing barrels per day

Disclaimer

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