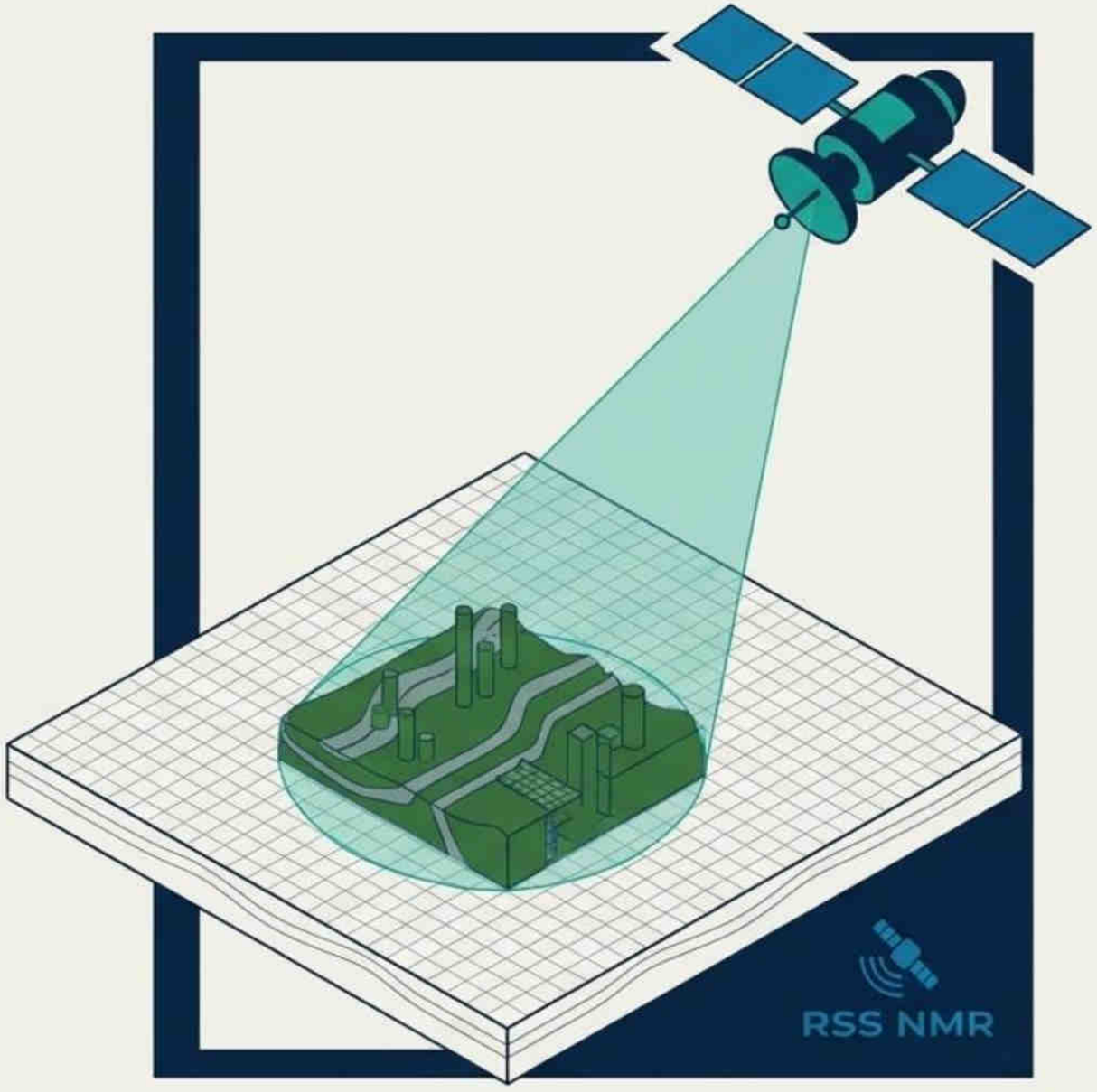
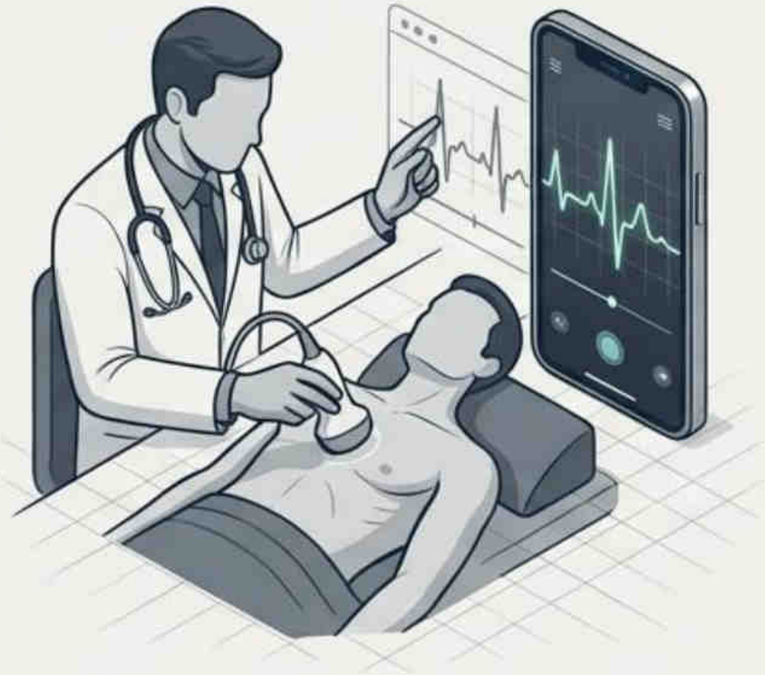
The X-Ray Era of Exploration

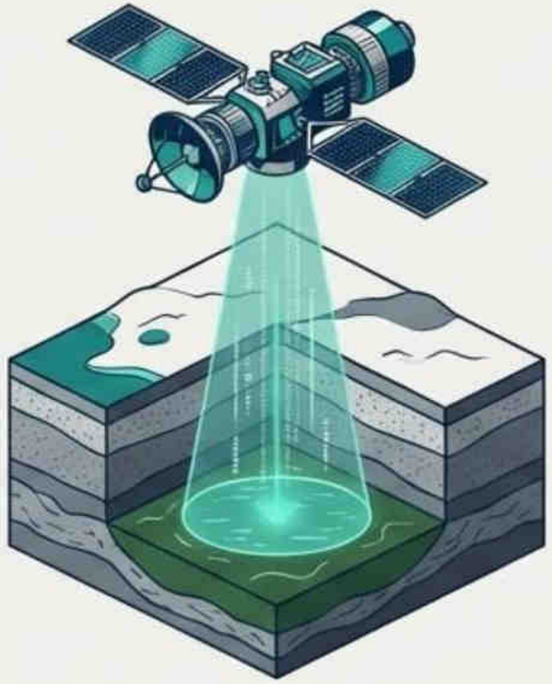
Replacing blind bids and blanket seismic with surgical, satellite-driven precision.



Direct observation replaces inferential guesswork



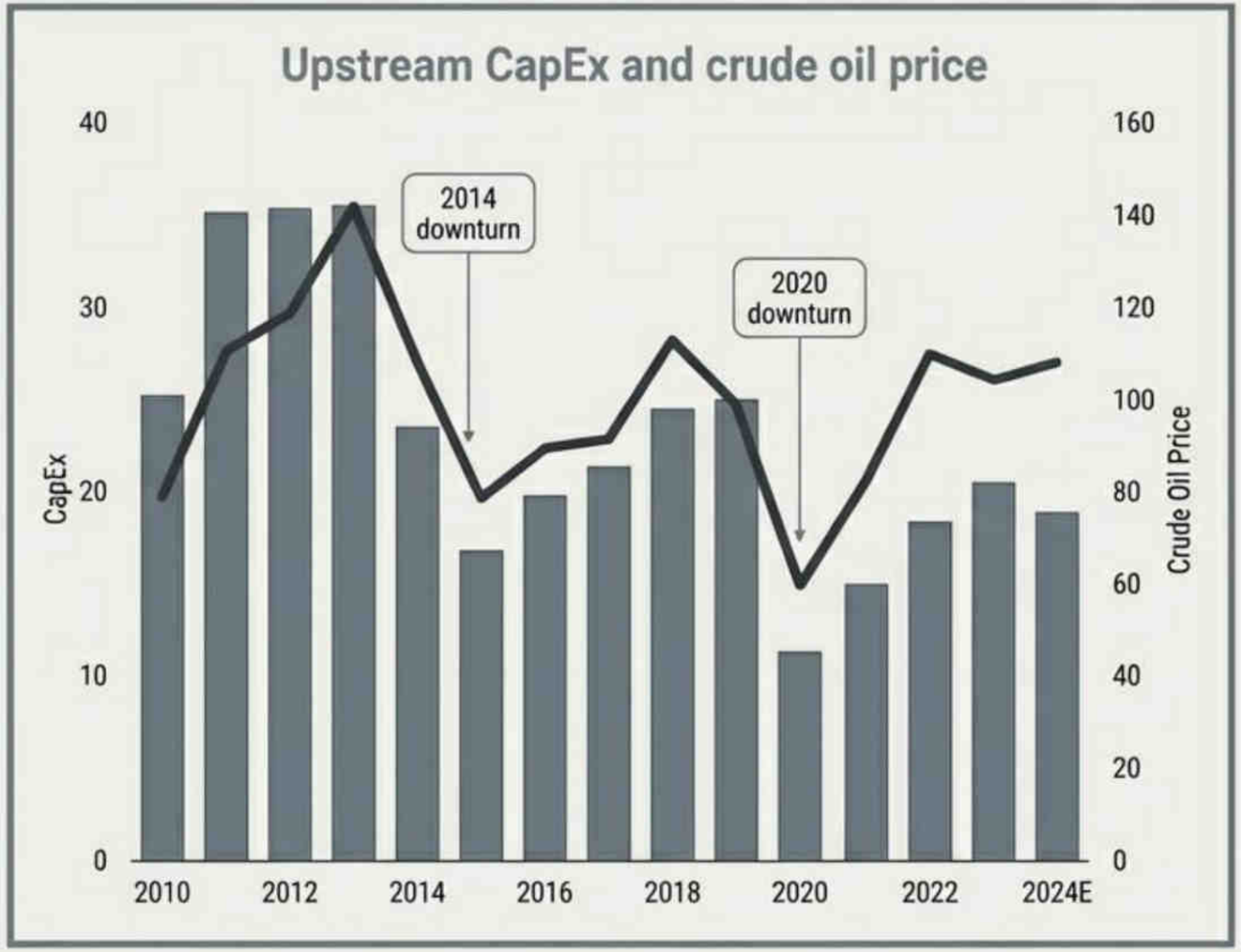
Direct Medical Observation (Ultrasound)



Direct Geological Observation (RSS-NMR)

Just as technology shrank the cardiac ultrasound to fit on a smartphone, Remote Sensing Surveying - Nuclear Magnetic Resonance (RSS-NMR) brings direct physical measurement of subsurface fluids to commercial resource exploration.

The breaking point of modern exploration



Massive CapEx Vulnerability: Seismic and drilling programs demand heavy, inflexible upfront capital that remains highly exposed to crude price volatility.

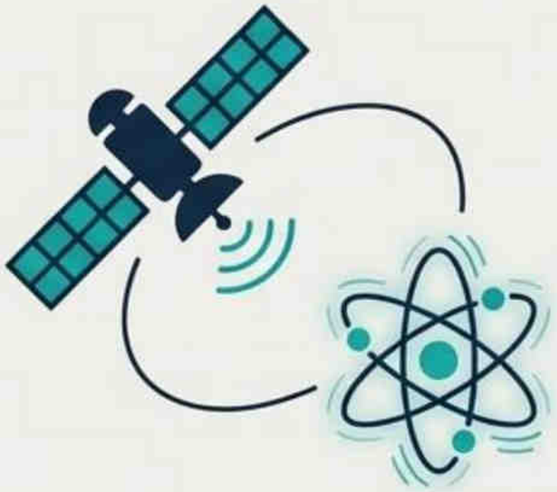
High Dry-Hole Risk: Investing in unproven, sterile areas directly devours profitability and degrades overall portfolio success rates.

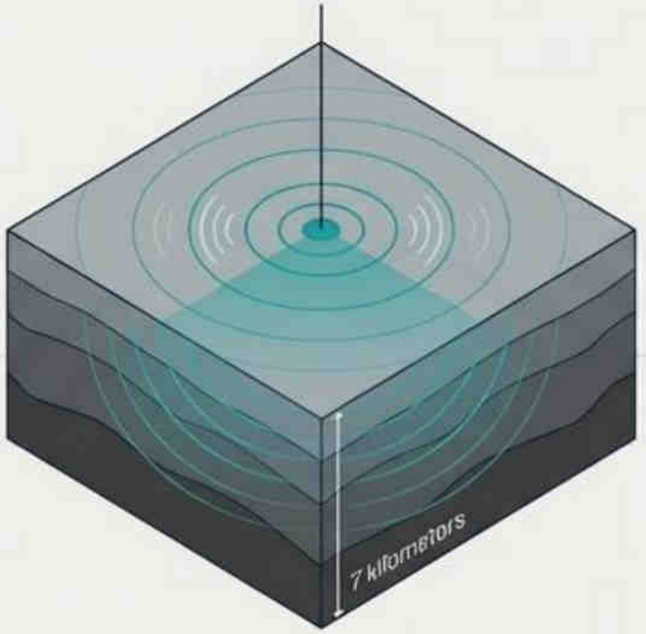
Mounting ESG Friction: Blanket conventional methods face increasingly complex operational, environmental, and social hurdles regarding noise, permitting, and land disruption.

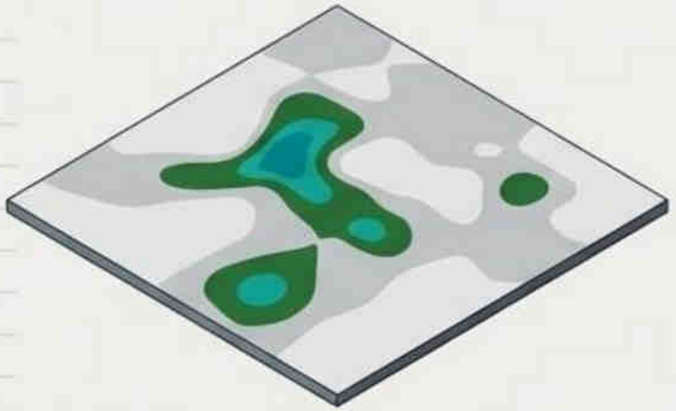
A century of refinement cannot fix a blind spot

Resolution has reached incredible heights, but the fundamental challenge persists: deciding exactly where to deploy these powerful, expensive instruments.

Pre-screening the subsurface from orbit







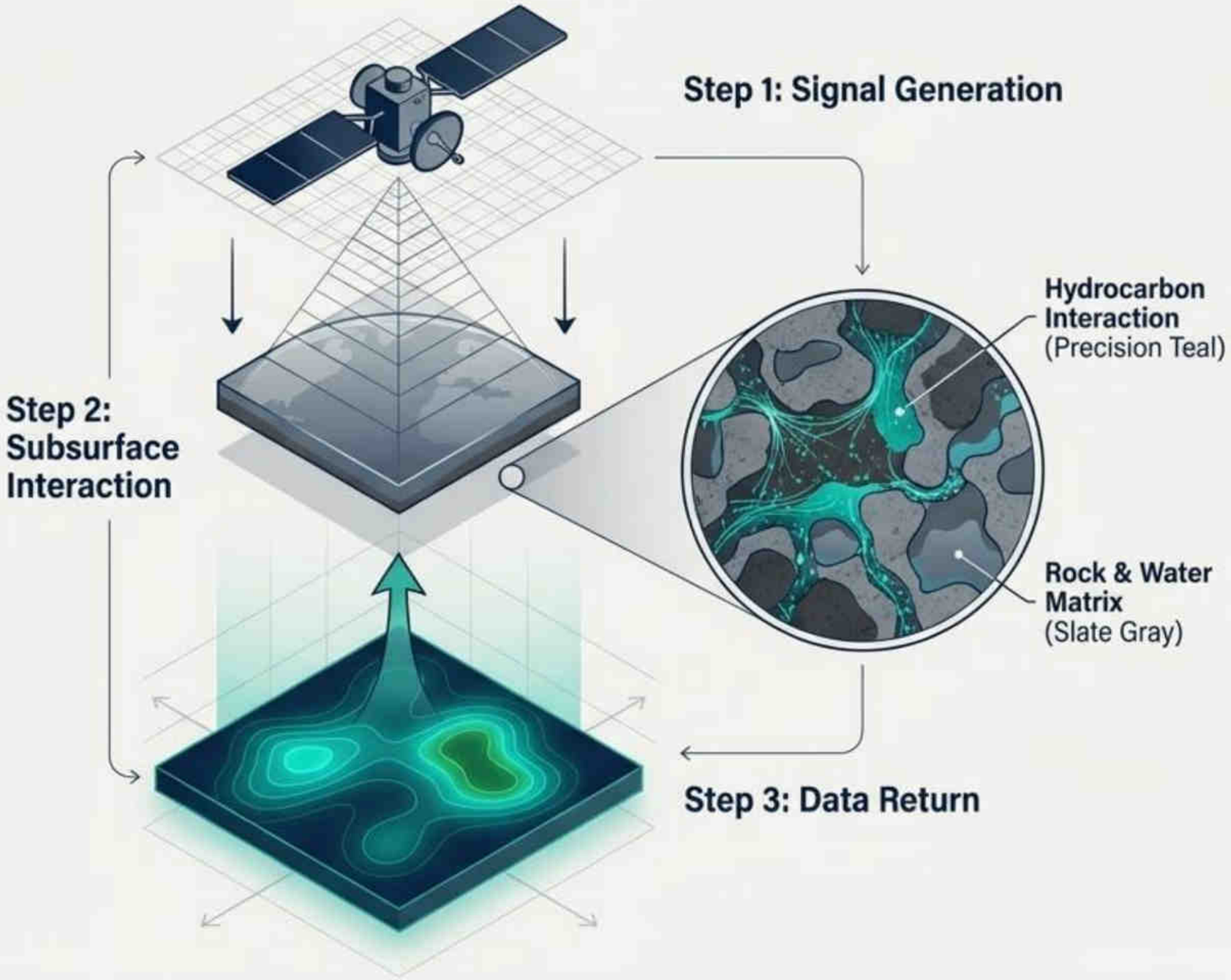
What it is:
An orbital pre-screening technology.

How it acts:
Identifies the direct signature of hydrocarbons, minerals, and water before mobilization.

The Result:
Definitive target zones mapped.

RSS-NMR is an orbital pre-screening technology identifying the direct signature of hydrocarbons, minerals, and water before a single piece of equipment is mobilized to the field.

Interacting directly with pore fluids at seven kilometers

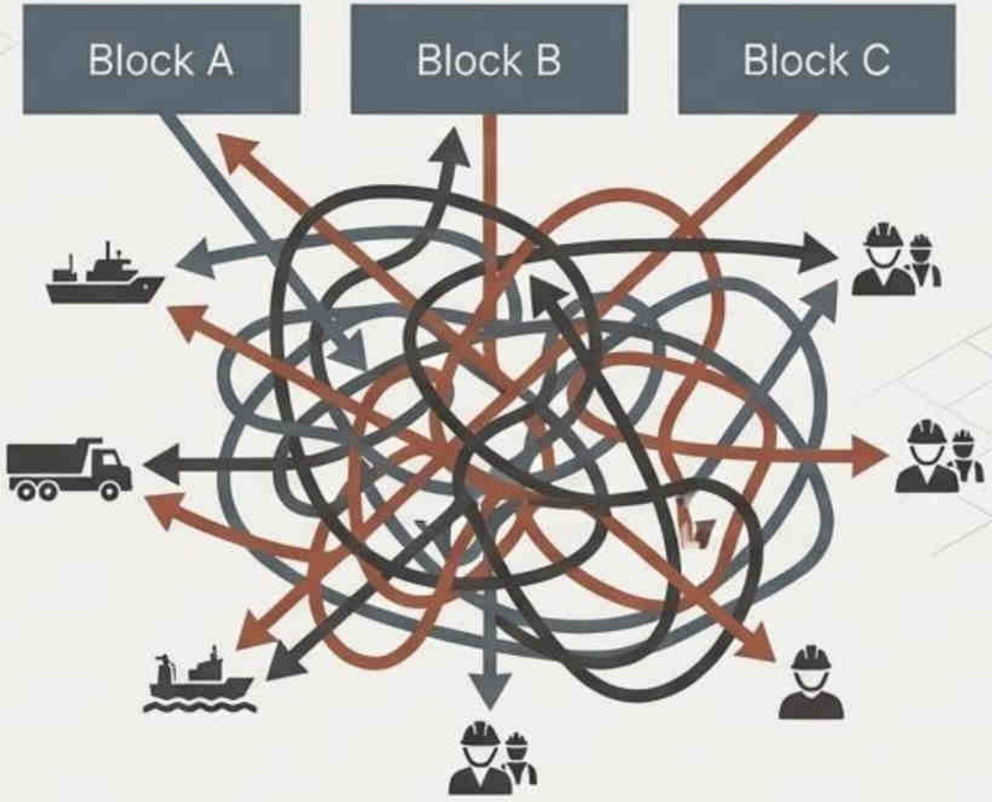


We are no longer relying solely on inferring fluid presence through geological structure.

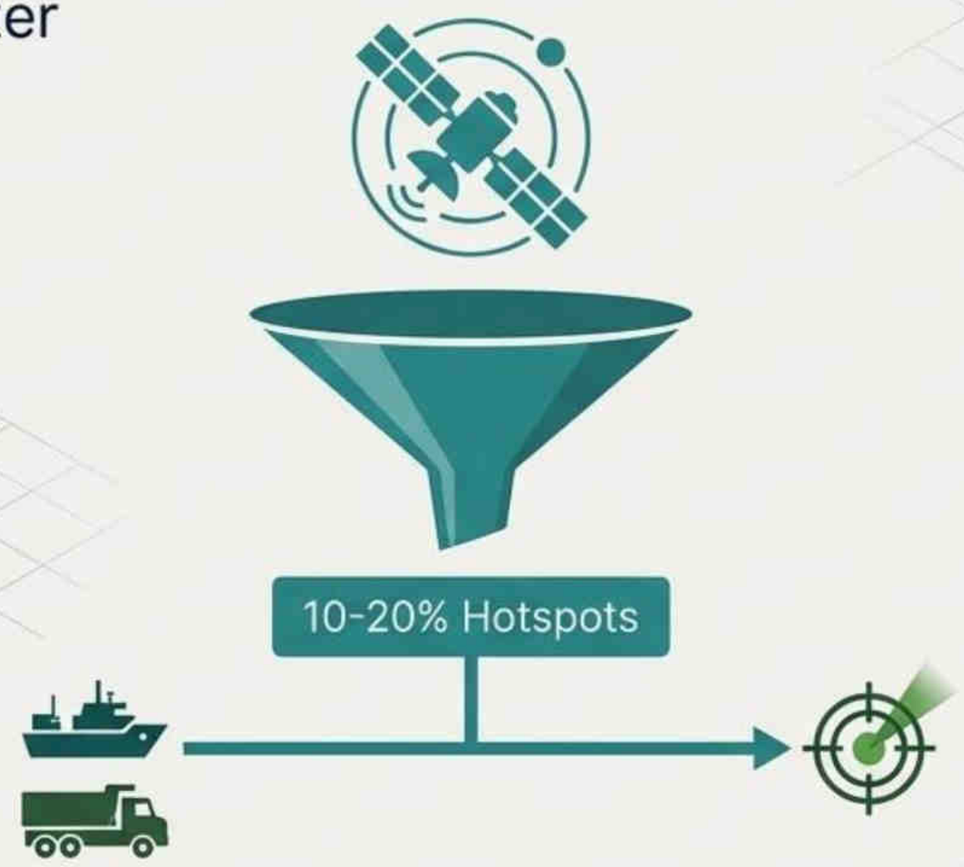
RSS-NMR measures the physical presence of the target resource itself.

Untangling the Seismic Scheduling Program

Before vs. After



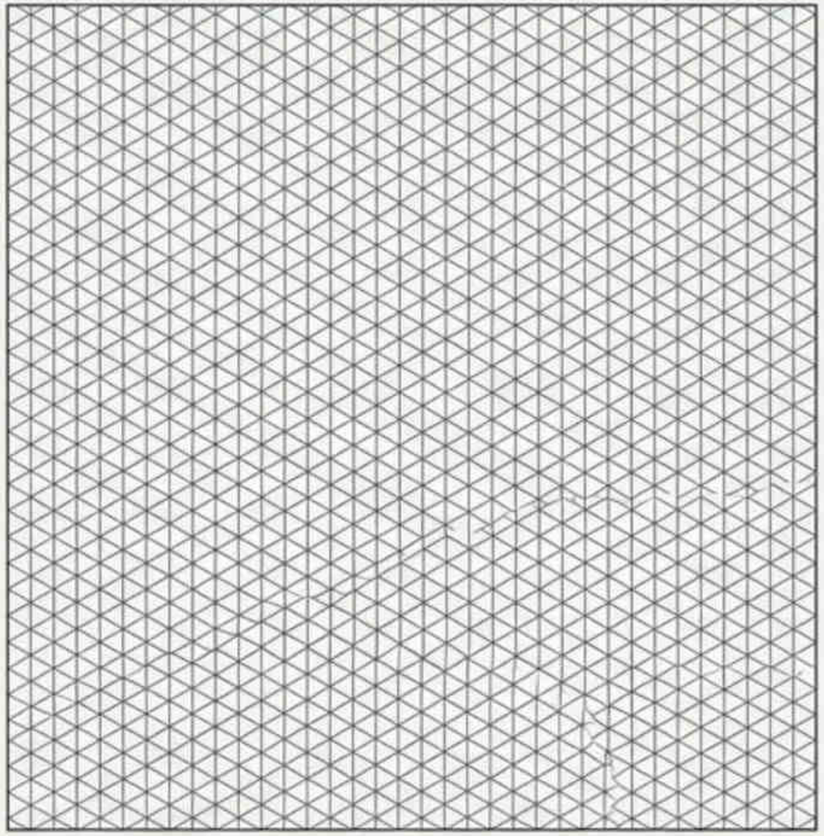
Complex, slow, and expensive resource allocation.



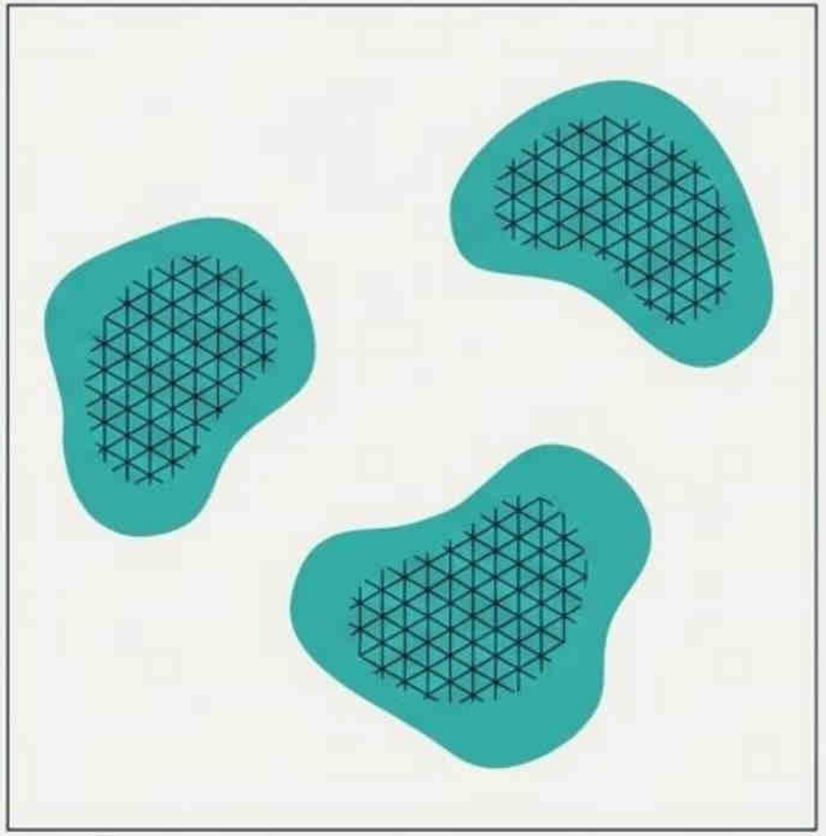
Simple, rapid, and focused execution.

RSS-NMR acts as a strategic pre-filter, solving complex resource allocation by eliminating vast tracts of sterile ground from the operational queue.

Redefining the scale of acquisition



The classic SSP mandate: Cover the entire block with multiple methods despite limited resources.

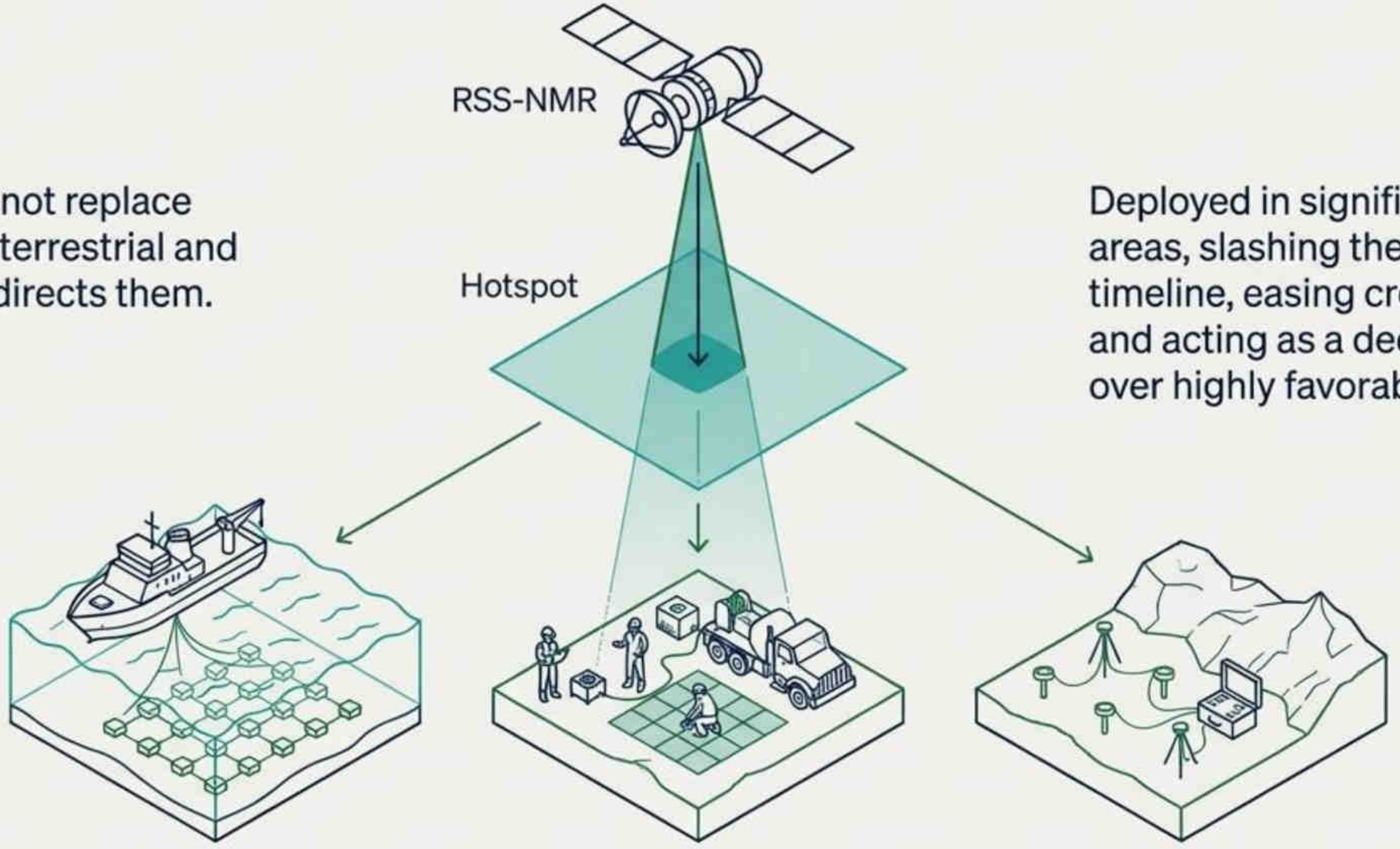


The RSS-NMR mandate: Characterize only the high-probability zones.

The primary strategic question shifts from "How do we afford to cover this entire block?" to "How quickly can we mobilize to these specific, validated targets?"

A force multiplier for advanced geophysical tools

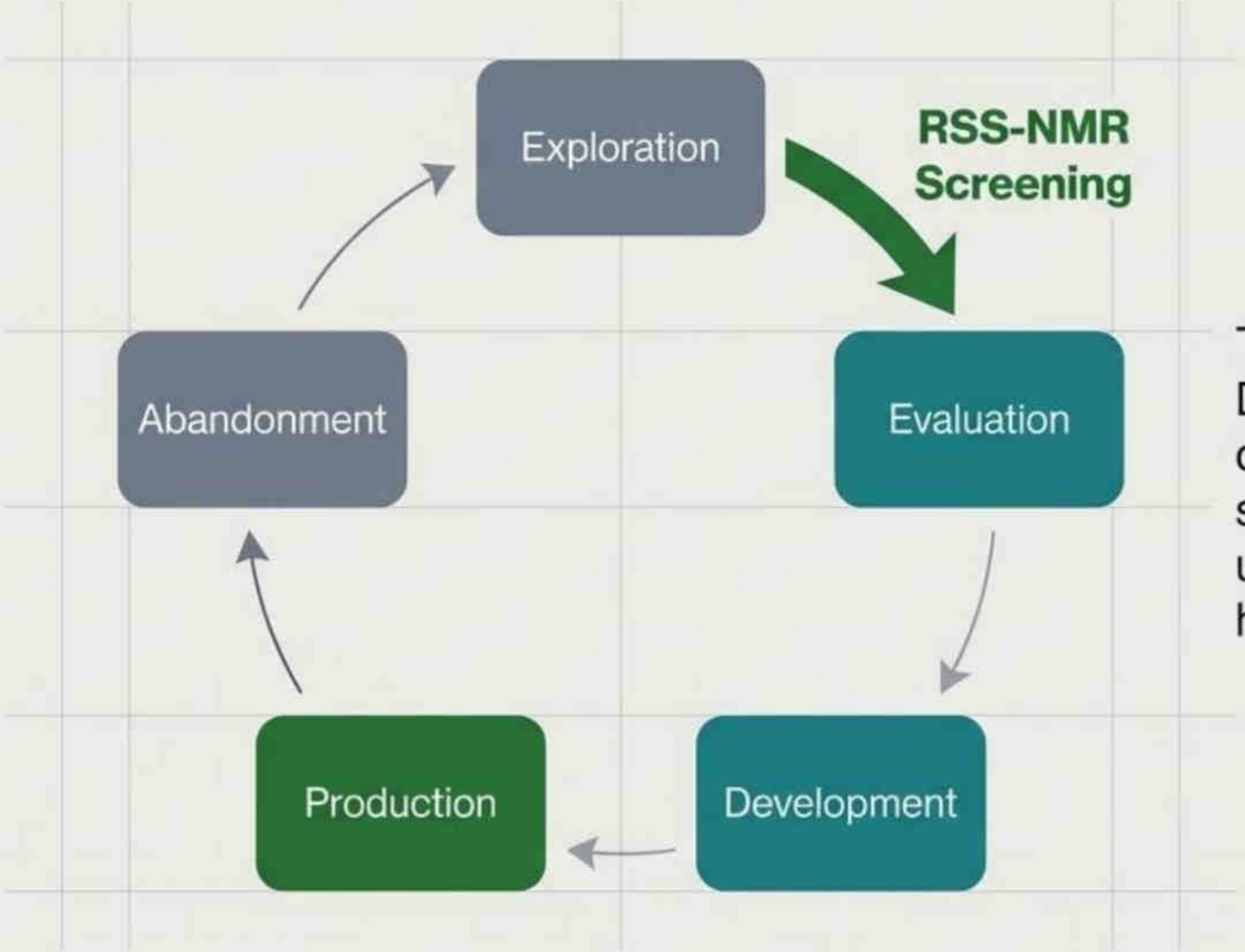
RSS-NMR does not replace high-resolution terrestrial and marine tools; it directs them.



Deployed in significantly smaller areas, slashing the acquisition timeline, easing crew scheduling, and acting as a deep calibration tool over highly favorable structures.

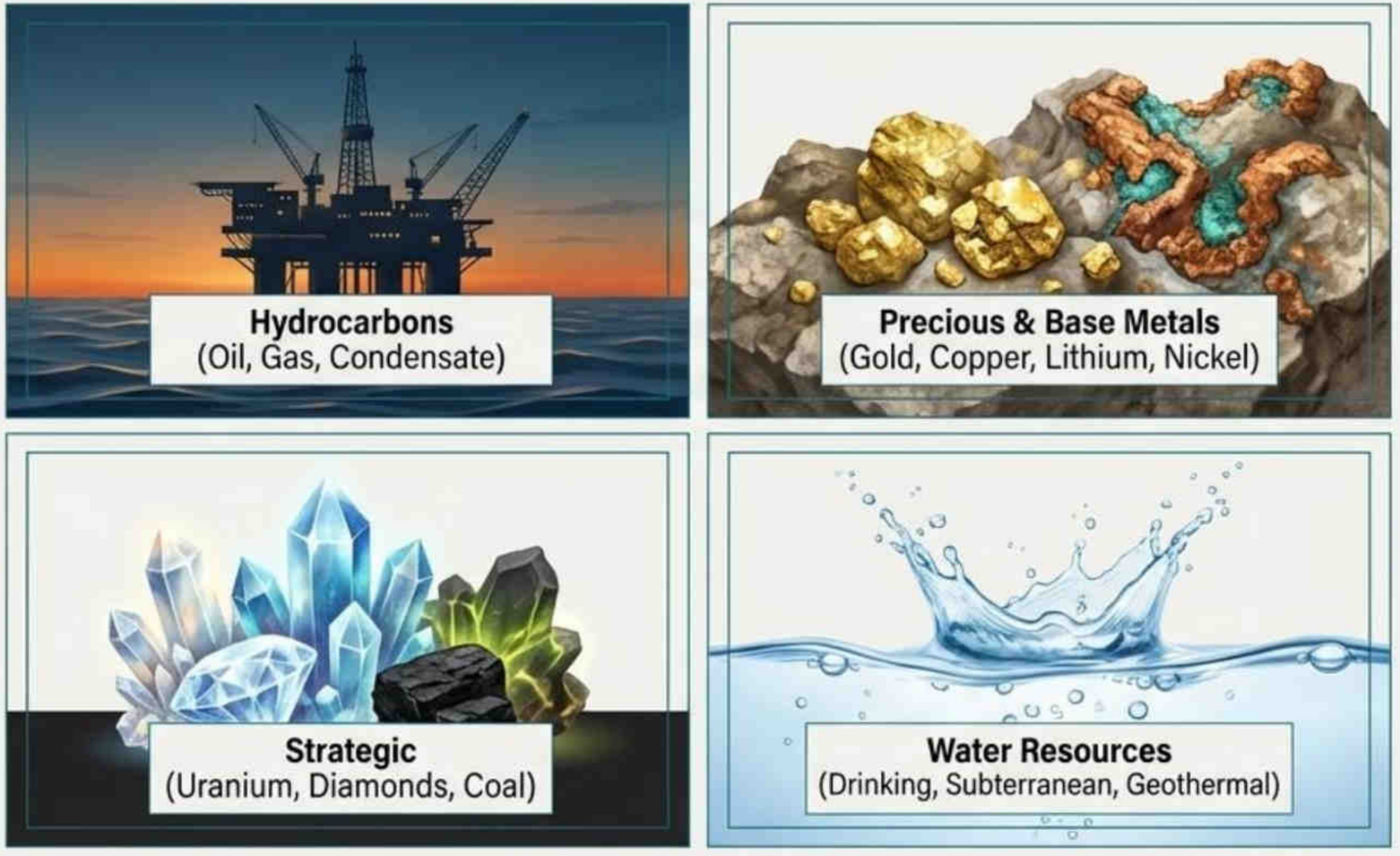
Front-loading intelligence to compress the lifecycle

By inserting a pre-selection step, the “Exploration” phase ceases to be a blind search.



The Evaluation and Development phases are drastically simplified and shortened, built entirely upon pre-validated, high-certainty objectives.

Eliminating false positives across resource classes



Because RSS-NMR identifies specific physical signatures, it is highly adaptable, providing definitive mineral and fluid typing across energy, mining, and strategic resource sectors.

Flexibility across the entire asset portfolio

Greenfield Projects

Evaluate the true economic viability of a frontier block before launching intensive seismic studies or blind-buying a concession.

Brownfield Re-exploration

Execute entirely new deep-exploration programs on mature assets without halting current production. Locate bypassed or undetected reservoirs missed by initial seismic surveys.

The Strategic Diagnostic Matrix

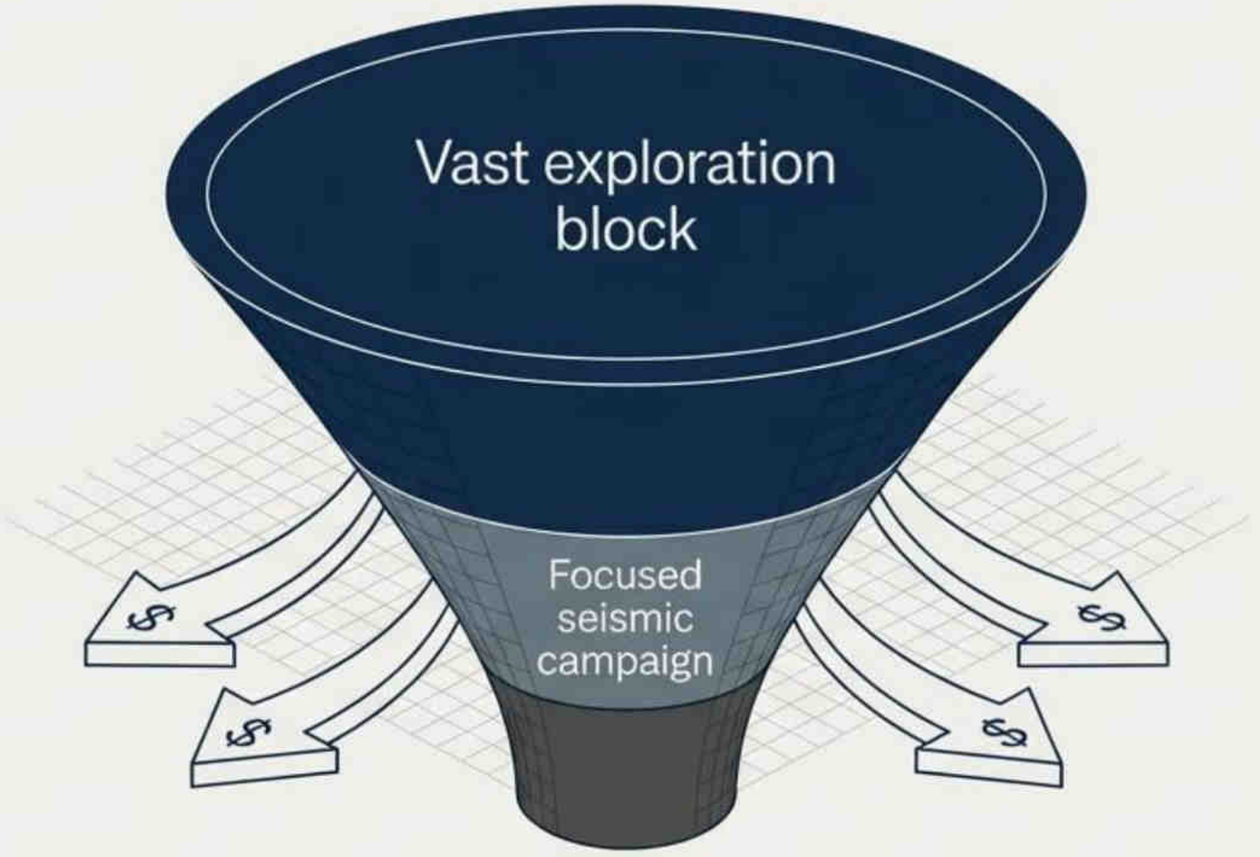
	Traditional Exploration	RSS-NMR Augmented
Primary Targeting Mechanism	Inferential (Geological Structure)	✓ Direct (Physical Fluid Presence)
Initial CapEx Exposure	100% Block Coverage required	✓ 10-20% Hotspot Coverage required
ESG & Surface Disruption	Maximum (Blanket terrestrial presence)	✓ Minimal (Surgical, isolated deployment)
Time to Actionable Insight	Years of acquisition and processing	✓ Months to targeted validation
Operational Agility	Rigid, resource-constrained	✓ Highly flexible, asset-agnostic

Driving down CapEx while mathematically forcing success

Increase Success Rates: Surpass the industry average of 30-35% by drilling **only** where hydrocarbons are physically confirmed.

Slash Exploration Costs: Eradicate speculative, wide-area seismic campaigns.

Accelerate Prioritization: Rapidly rank and classify the most promising prospects across vast portfolios.



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

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Contact

Michel L. Friedman-Matarese

Móvil / WhatsApp: +591-71696657

Email: michel@geo-nmr.net

Speaker FR-UK-ES-BR/PT

Area : África y Américas

Igor Kostelanetz

Tel / Móvil / WhatsApp: +79787155212

Email: igor@geo-nmr.net

Speaker RU-UK

Area : World