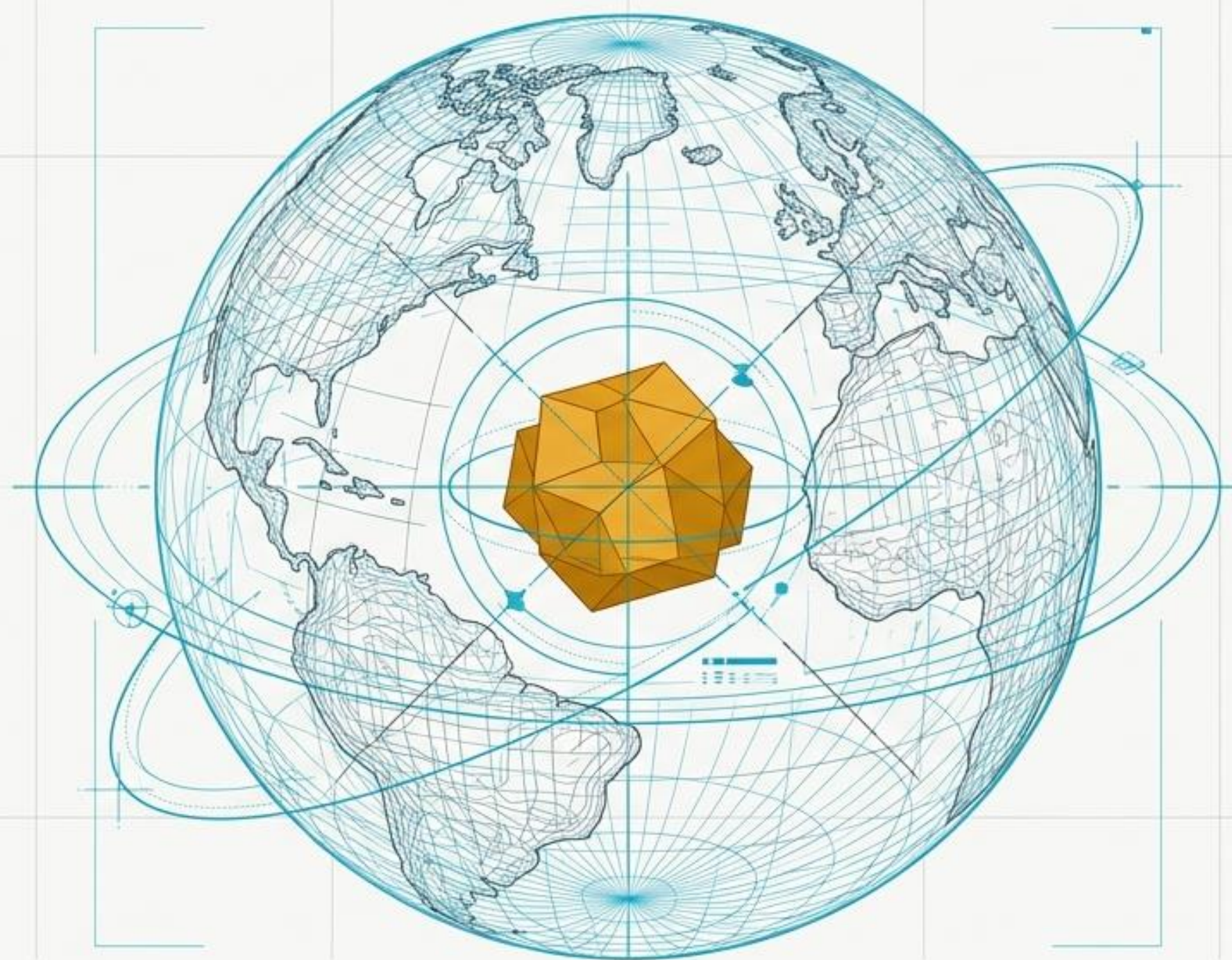


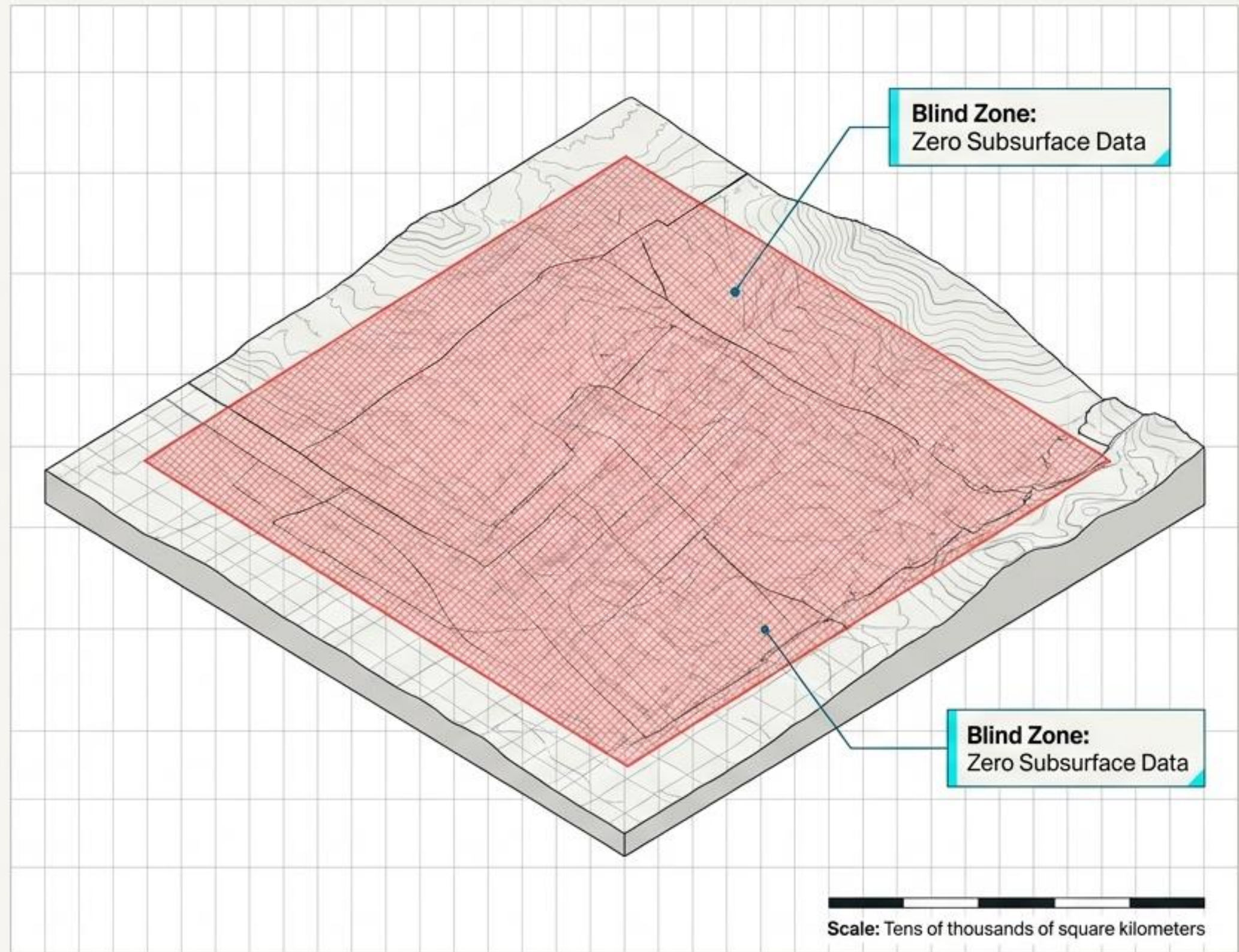
Orbital Passive NMR: Redefining Greenfield Exploration

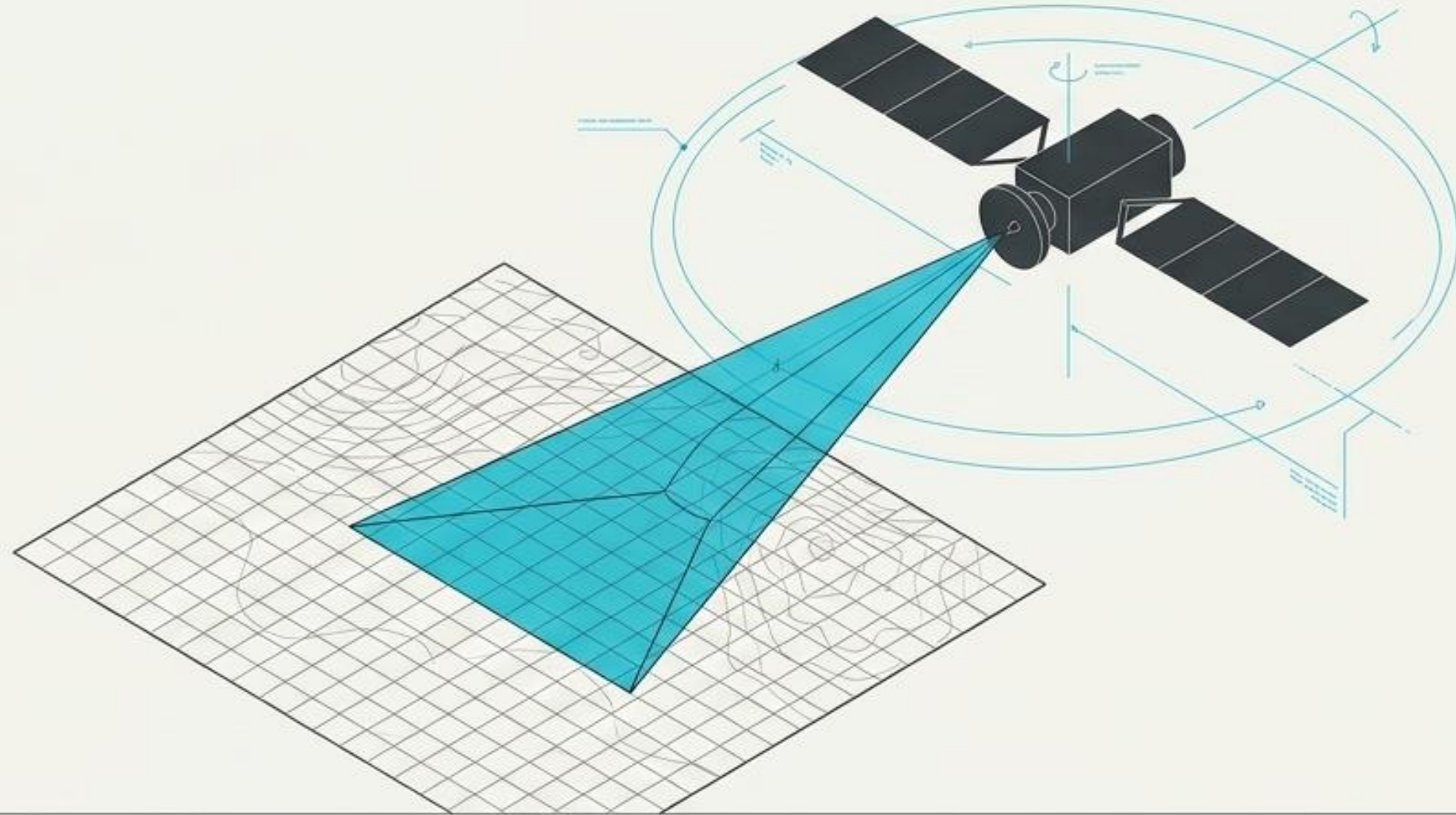


Surgical targeting, direct fluid qualification, and massive risk elimination via satellite RSS-NMR.

The Greenfield bottleneck: blind deployment across massive perimeters

Traditional exploration of virgin basins forces a choice between deploying heavy ground infrastructure across tens of thousands of square kilometers with zero historical well calibration, or taking massive financial risks on blind drilling.

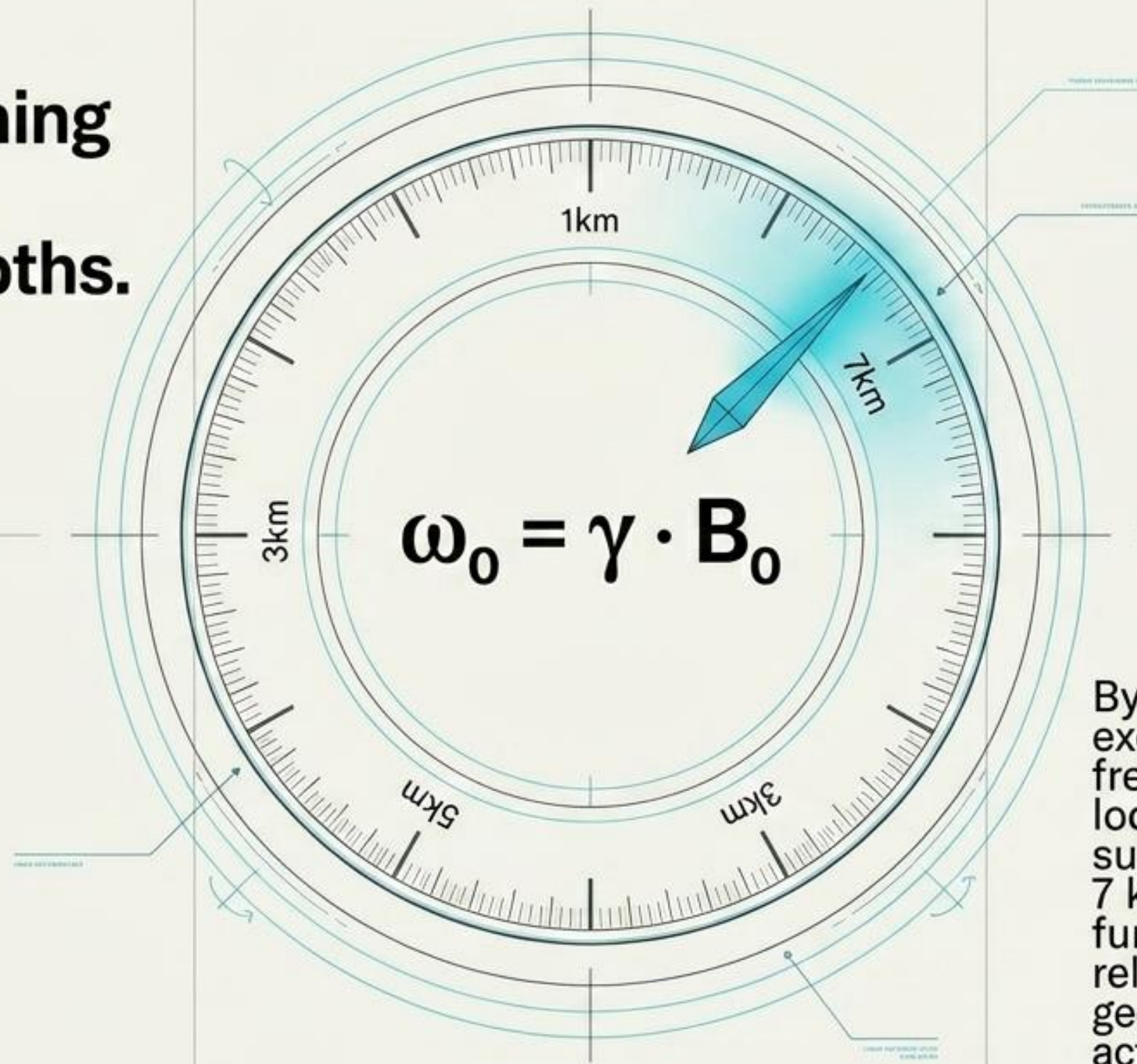




Top-down structural targeting via passive satellite flyovers.

Regional screening is executed **entirely from orbit**. By utilizing passive Nuclear Magnetic Resonance (RSS-NMR), data acquisition **requires zero initial ground crews and zero** surface infrastructure, fundamentally altering the economics of early-phase exploration.

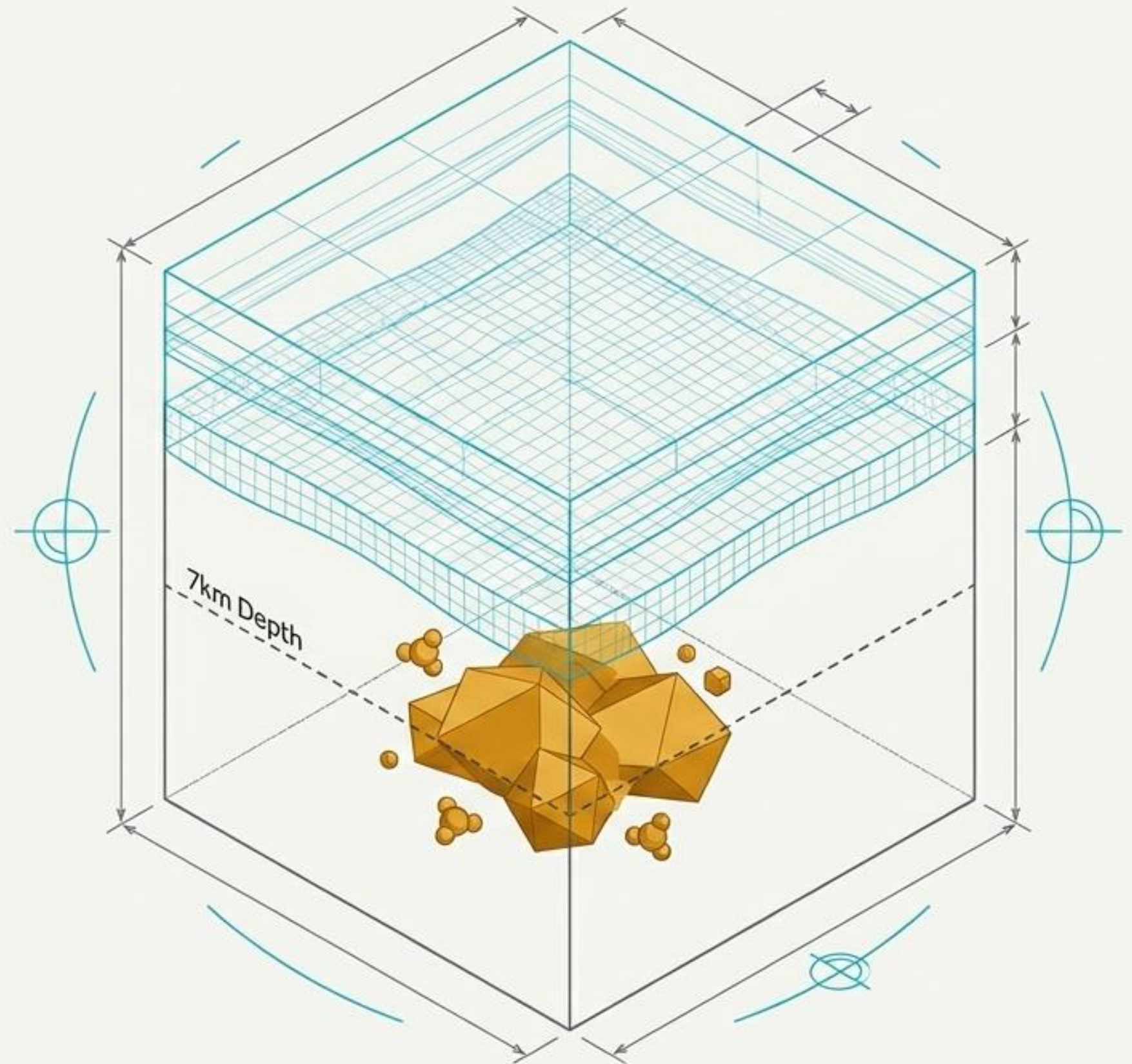
The Larmor Frequency: Tuning the system to targeted depths.



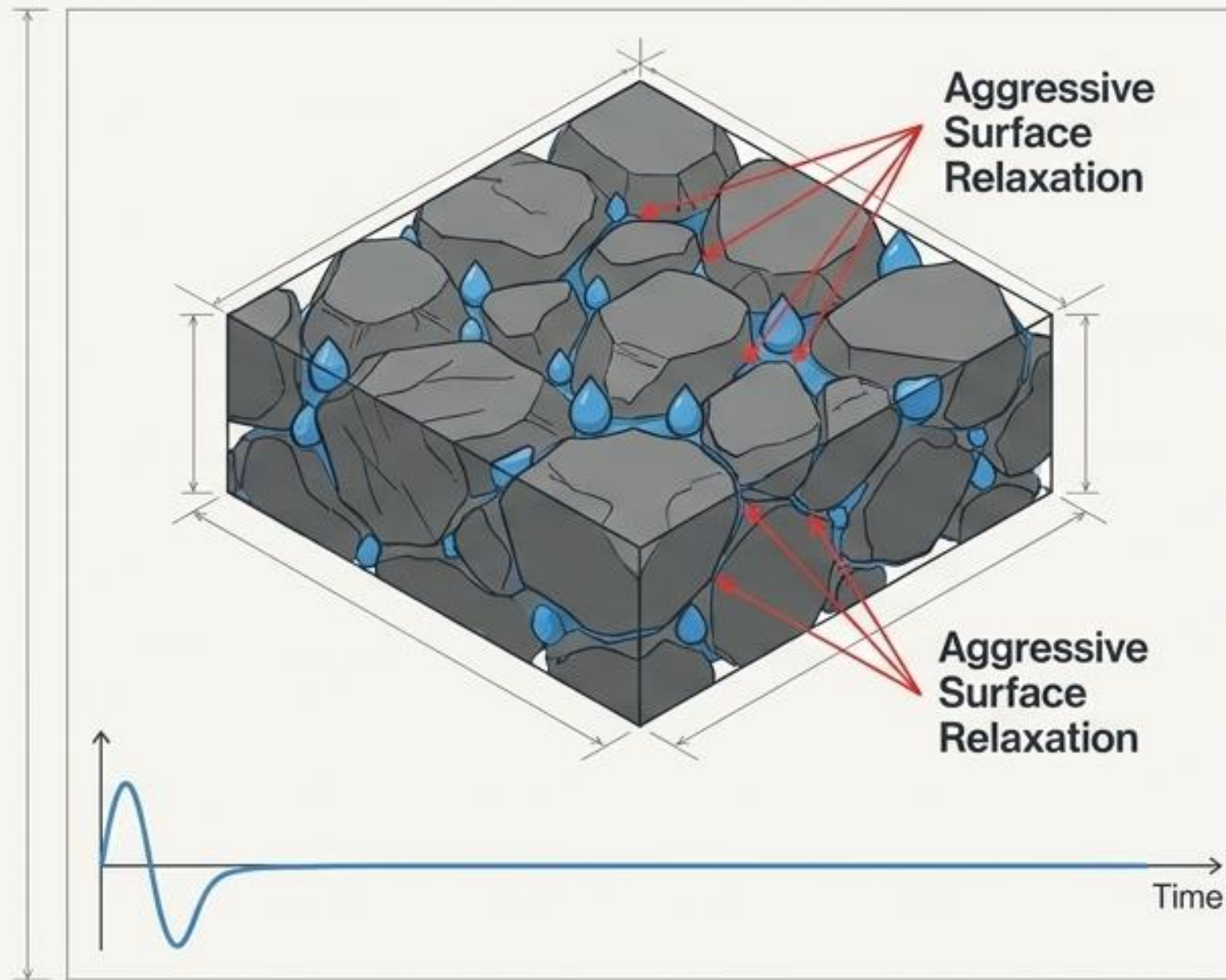
By precisely varying the excitation and reception frequency, the orbital system locks onto specific subsurface horizons up to 7 kilometers deep. The fundamental Larmor relationship dictates this geometric depth selection, acting as an orbital focal point.

Treating the upper sedimentary layers as a transparent dielectric medium.

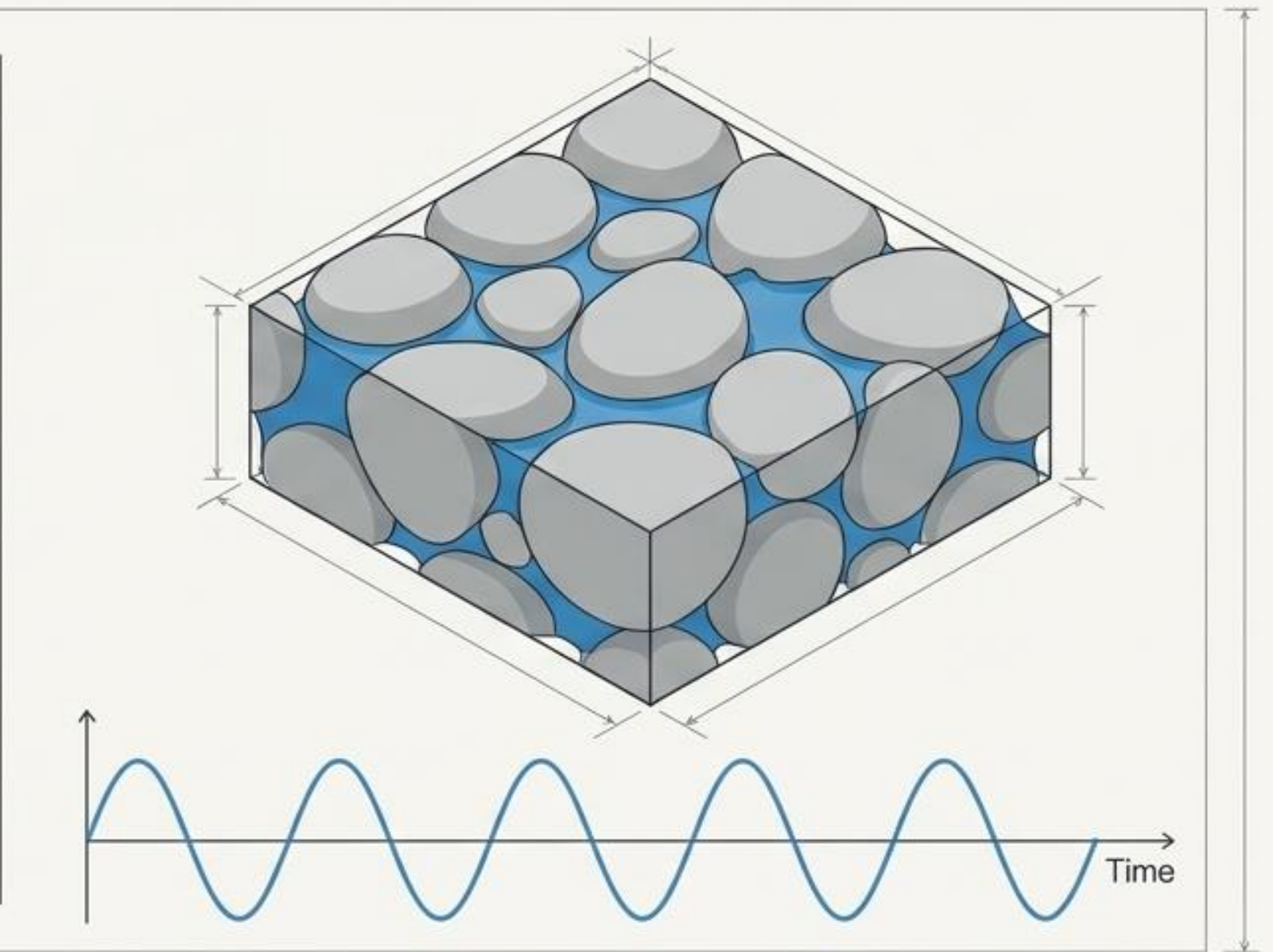
Once calibrated, the system entirely bypasses the upper crust. The intervening rock behaves as a transparent dielectric medium, allowing the satellite to surgically measure the signal of hydrogen protons directly within the deep reservoir rock.



Why sterile signals die: The mechanics of Capillary Confinement.



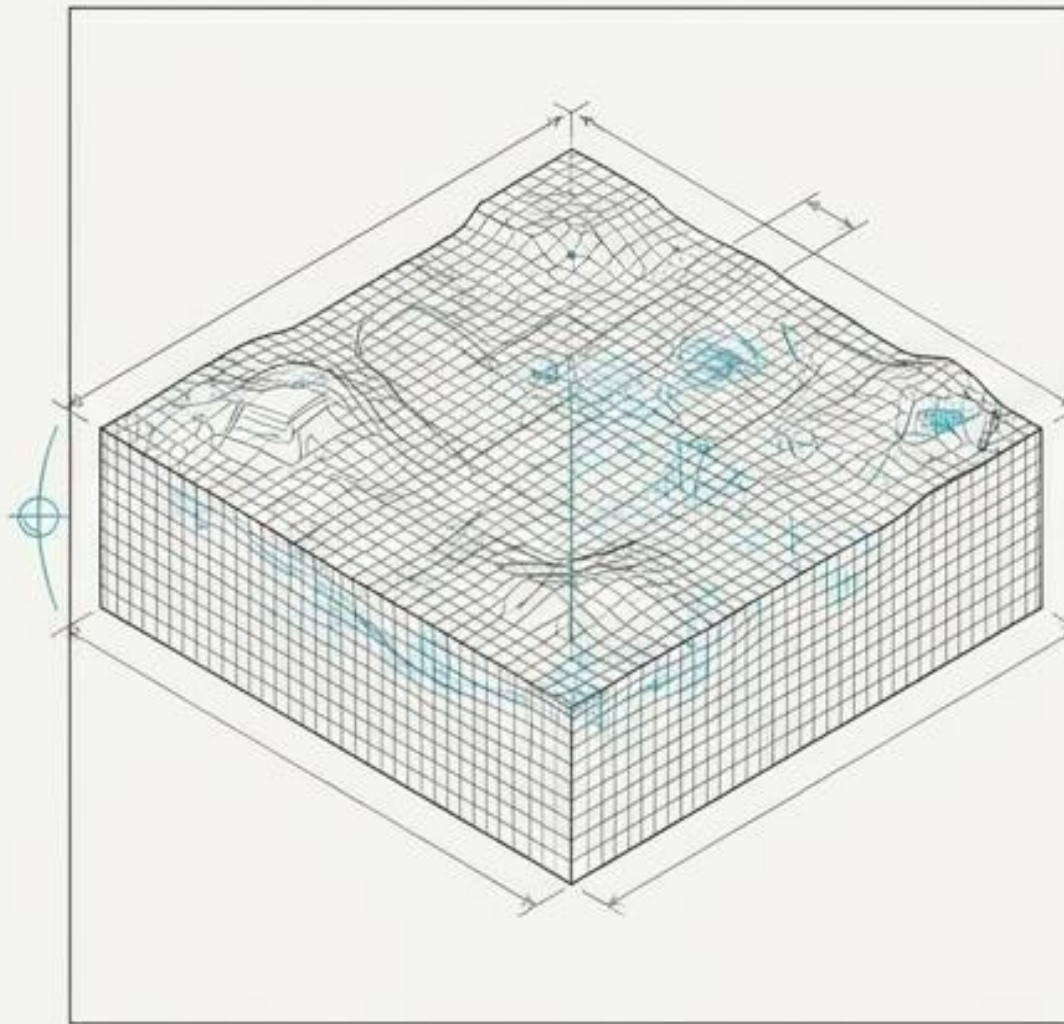
Sterile Rock: Water is confined in extremely narrow capillary spaces. The NMR signal decays critically fast, acting as a biophysical fingerprint for non-viable rock.



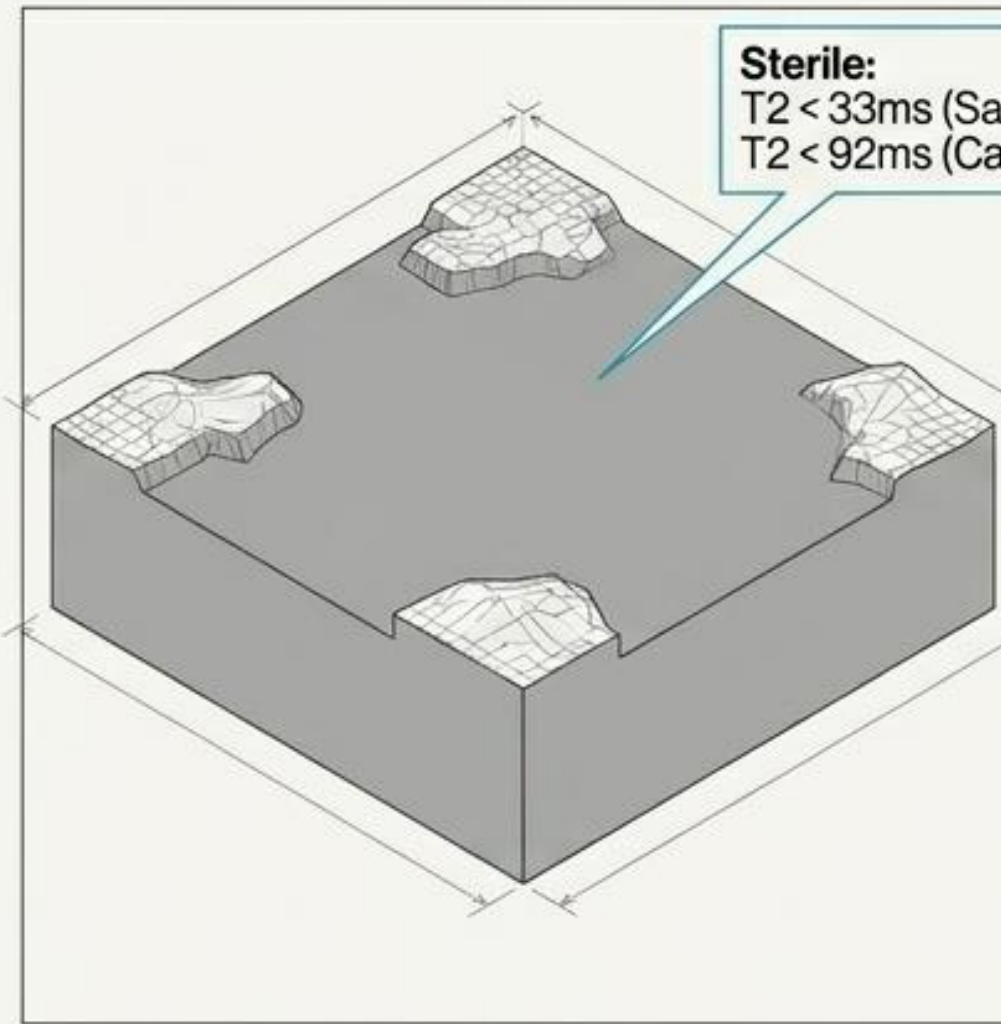
Sweet Spot: Large, open, interconnected pores allow the signal to ring out clearly and stably.

Mass Filtering: Instantly eliminating 80% of dry-hole risk.

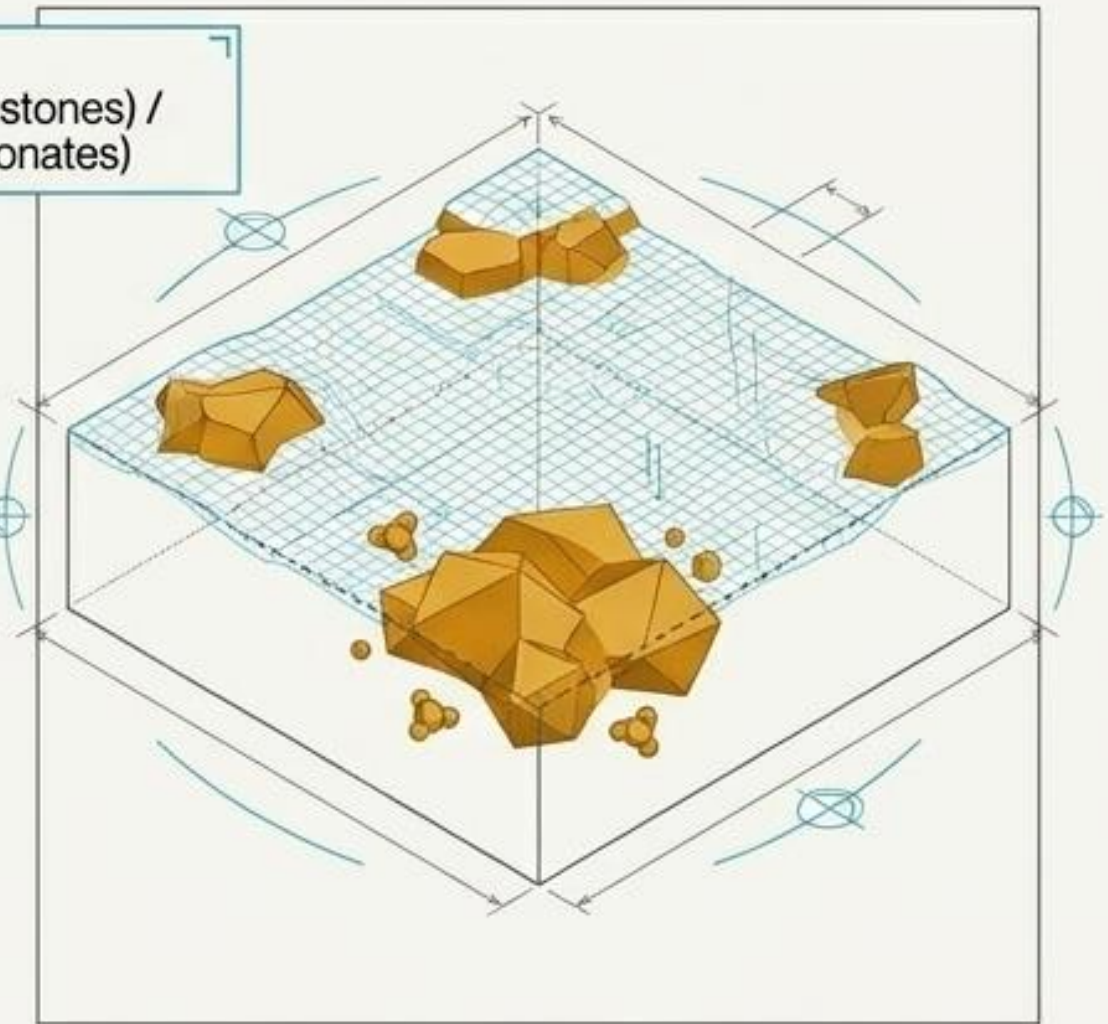
Applying strict analytical funnels based on Transverse relaxation times (T2) automatically masks out tight, **sterile zones**. This surgically eliminates 70-80% of the block's surface area before heavy seismic expenditures are engaged.



1. Total Unmapped Territory



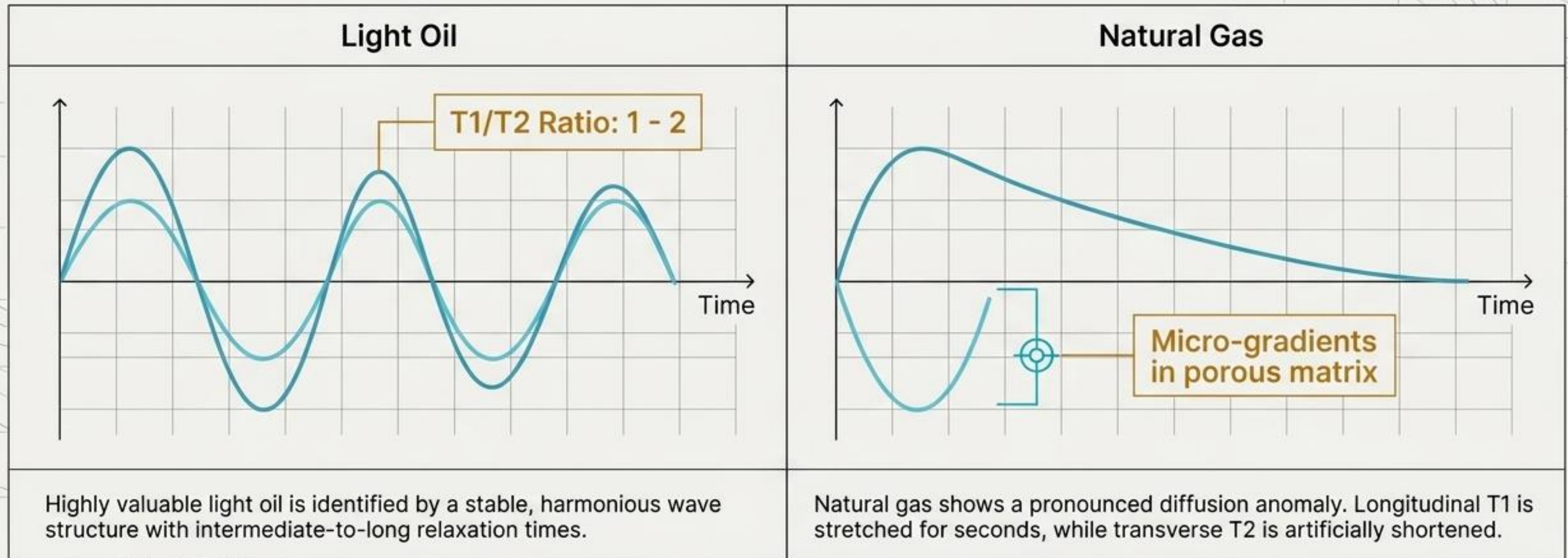
2. Mass Filtering Applied

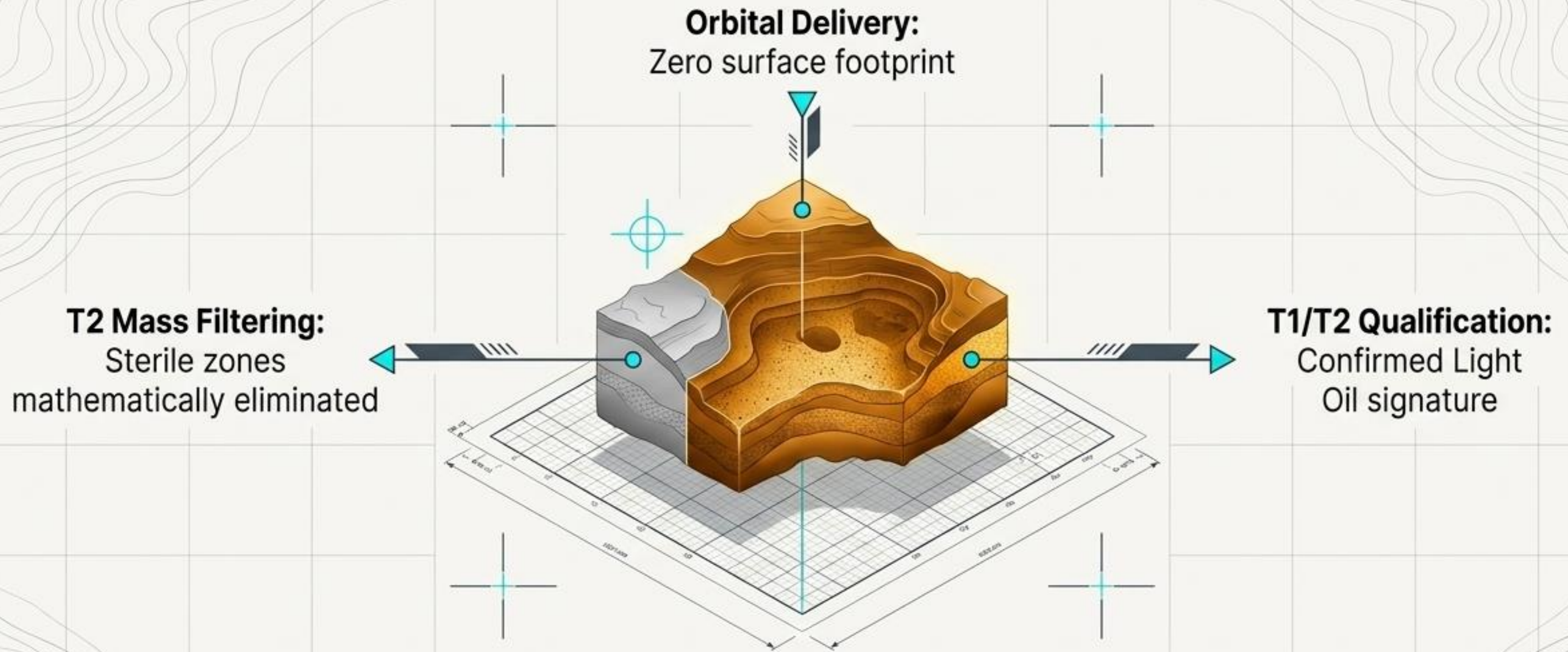


3. Isolation of High-Porosity Anomalies

Beyond porosity: Direct molecular qualification of trapped fluids

Crossing longitudinal (T1) and transverse (T2) relaxation constants reveals the exact molecular nature of the fluids in place.

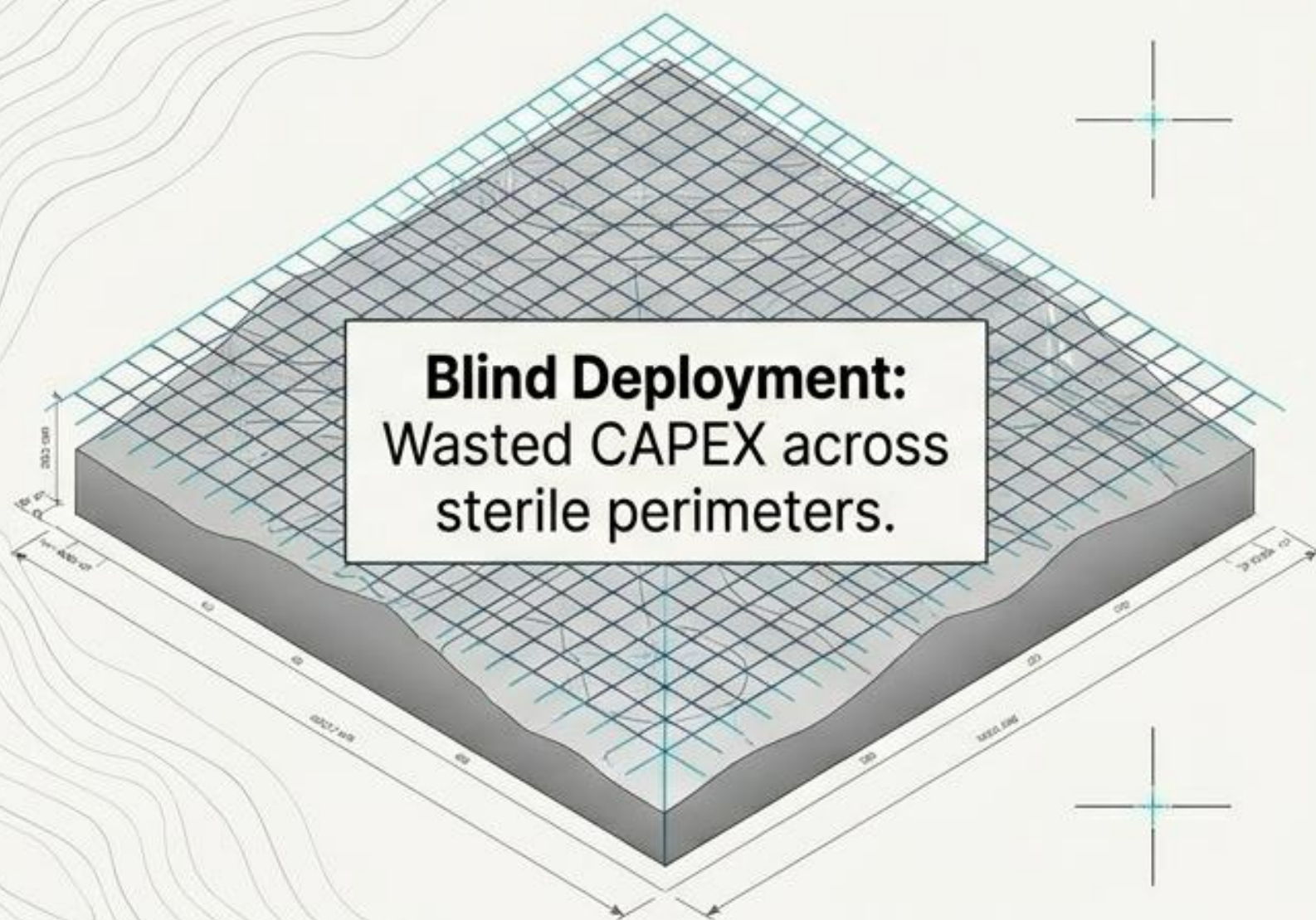




The ultimate CAPEX optimization engine.

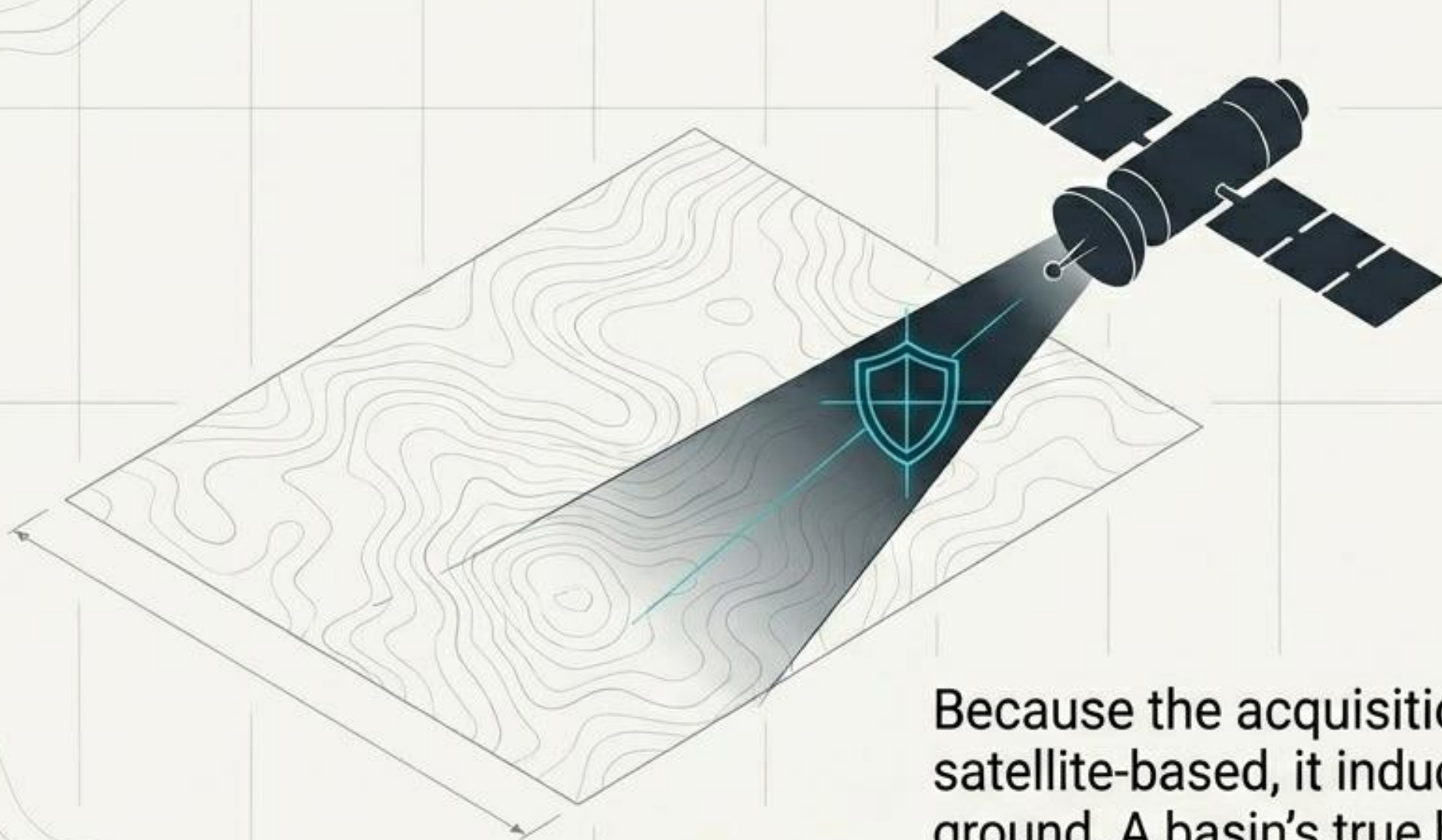
RSS-NMR merges orbital acquisition with quantum-level fluid diagnostics, transforming blind Greenfields into precision-targeted, de-risked portfolios.

Strategic Advantage I: Surgical CAPEX allocation.



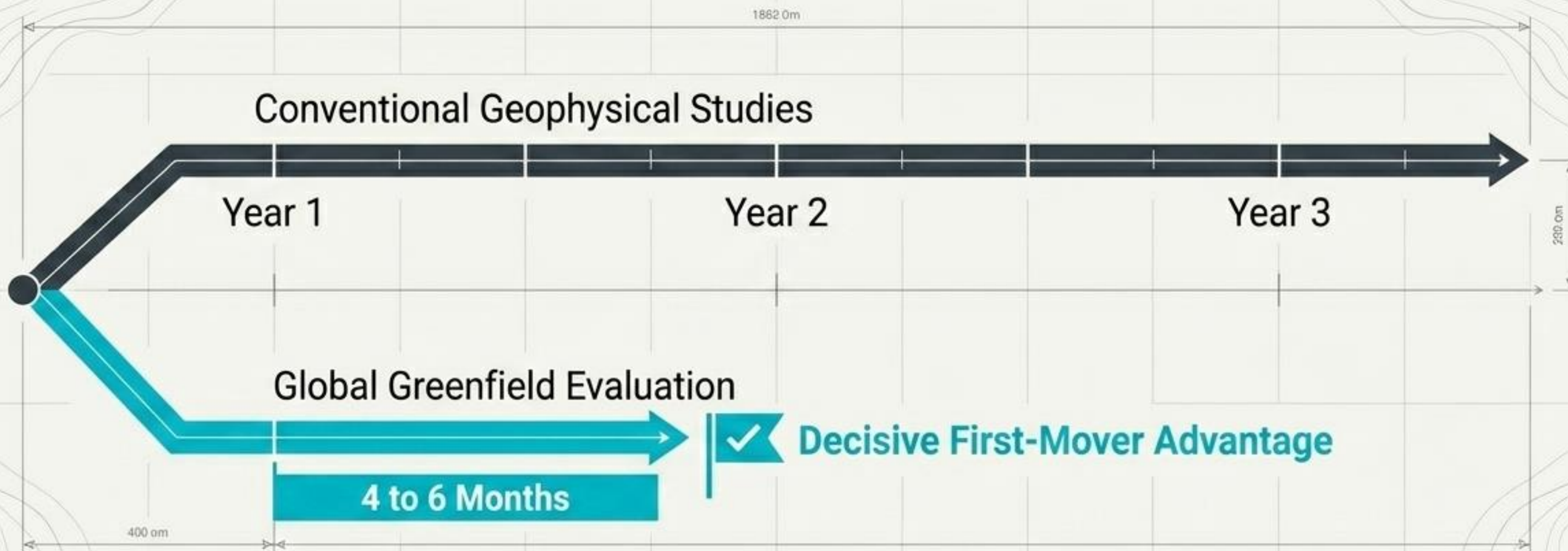
Heavy 3D seismic acquisition and exploratory drilling are no longer deployed blindly. Capital expenditures are concentrated surgically on the precise contours of the hydrocarbon reservoirs.

Strategic Advantage II: Total competitive discretion.



Because the acquisition is entirely passive and satellite-based, it induces zero visibility on the ground. A basin's true hydrocarbon potential can be validated with strict confidentiality, completely avoiding the awakening of competitors or triggering premature land speculation.

Strategic Advantage III: Radical cycle compression.



Time-to-insight is structurally transformed. A comprehensive global evaluation is completed in months, replacing years of traditional ground studies.



The new operational baseline for Greenfield deployment.

By converting the upper crust into a transparent medium and aggressively eliminating 80% of dry-hole risk from orbit, RSS-NMR doesn't just improve early-phase exploration—it fundamentally rewrites the rules of engagement.



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Зарегистрирована в Едином реестре зарегистрированных систем
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Рег.№ РОСС RU.31685.049309 от 24 мая 2017 г.

CERTIFICATE OF CONFORMITY СЕРТИФИКАТ СООТВЕТСТВИЯ

№ CC.002647

Valid from 20.10.2025 to 05.10.2028

Срок действия с по

Applicant/Manufacturer: Poisk Group LLC, 299640, Russia, Sevastopol,
st. Khristofora, 143

Заявитель/Производитель: ООО «ГРУППА ПОИСК», 299640, Россия, г. Севастополь,
ул. Христофора, в. 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 Poisk complex (EACH of the OJSC POISK)

Продукция: Методика подсчета прогнозируемых запасов руд в глубинных залежах, с
использованием параметров рудных тел, полученных с помощью дистанционных
геоспациальных методов геологического и геофизического оборудования комплекса
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Vice President
Вице-президент



A.V. Solodov
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002645

СИСТЕМА ДОБРОВОЛЬНОЙ СЕРТИФИКАЦИИ «СДЕЛАНО В РОССИИ»
Рег. № РОСС RU.31685.049309 от 24.10.2016 г.



СЕРТИФИКАТ СООТВЕТСТВИЯ

№ РОСС RU.31685.049309

Срок действия с 20.10.2025 по 05.10.2028

№ 0057630

ОБЛАСТЬ СЕРТИФИКАЦИИ: РОССТАНДАРТ.1101119

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ПРОДУКЦИЯ: Методика подсчета прогнозируемых запасов руд в глубинных залежах с
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НА ВНЕШНИИ

Продукция соответствует № РОСС RU.31685.049309 от 24.10.2016 года, требованиям Системы добровольной сертификации «Сделано в России»

ДЕЯТЕЛЬНОСТЬ НАД: СЕРТИФИКАЦИЯ

(Сфера профессии: 1)



Руководитель центра

Подпись

Сертификат действителен при условии соблюдения

А.В. Солодов
А.В. Солодов

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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.