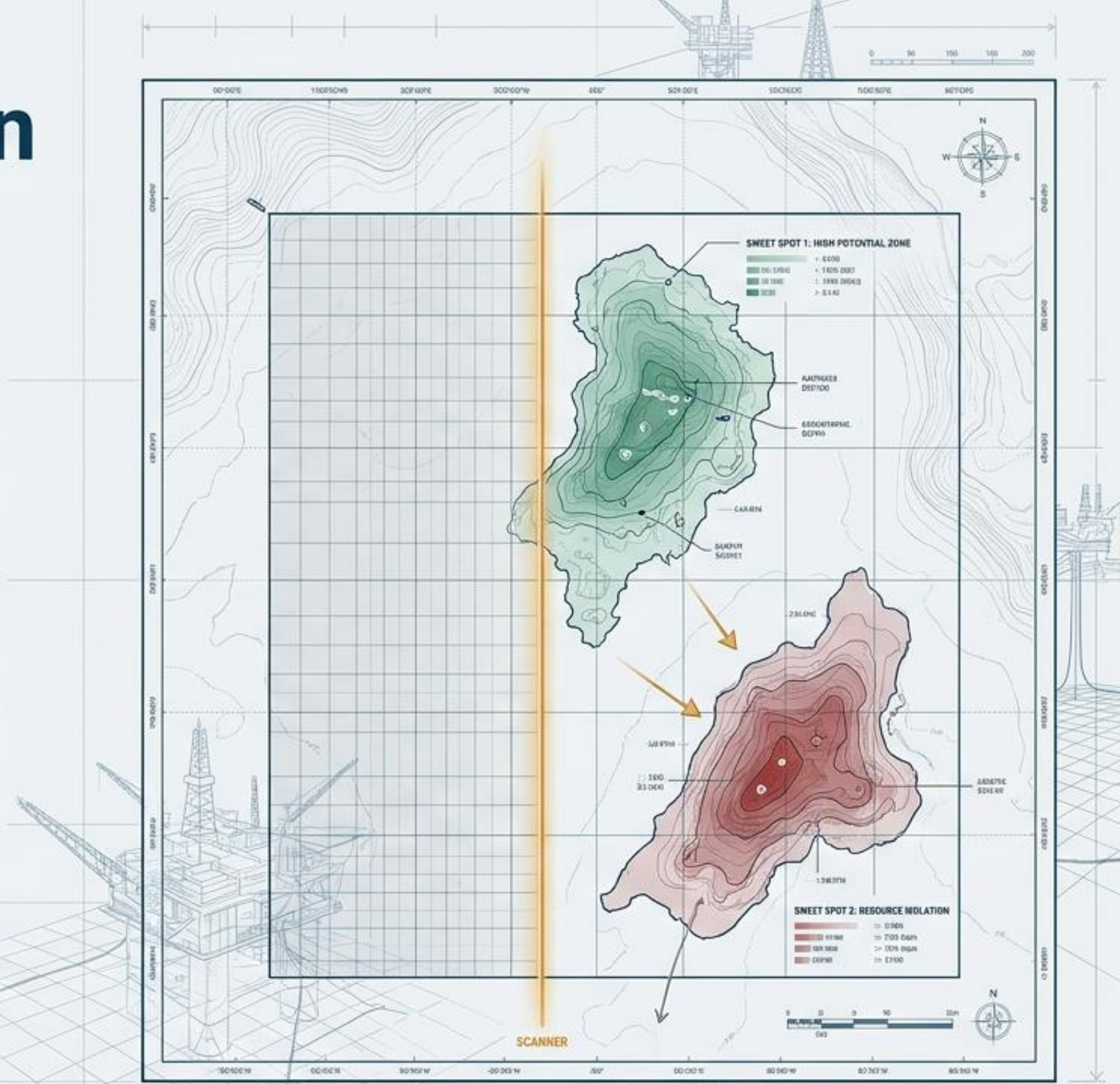


# Stage Zero Exploration

## Escaping the Financial Burden of Total Seismic Coverage



How RSS-NMR pre-screening optimizes E&P capital, bypasses initial regulatory bottlenecks, and isolates hydrocarbon sweet spots.





# The Regulatory Paralyzation (Before the First Scan)



## Phase 1: Legal & Financial Proof

Securing operator status, demonstrating sufficient share capital, providing heavy bank guarantees, and proving technical capacity (subcontractors, history).

## Phase 2: The Application Package

Defining the block, objectives, detailed timeline, minimum work programs, and investment schedules.

## Phase 3: The ESIA Bottleneck

Completing complex Environmental and Social Impact Assessments (ecological risks, pollution, marine biodiversity, spill response plans, public consultations).

## Phase 4: Contractual Lockdown

Negotiating production sharing, advancing royalties, and securing industrial safety authorizations.

**This massive administrative undertaking is legally required just to look at the block.**

# The Permitting Reality: Timeline & Friction

	Onshore	Offshore
Permit Type	Exclusive Exploration Permit (PER)	Petroleum Exploration Permit / License
Initial Duration	~5 years (renewable)	2 to 6 years (renewable under strict conditions like fractional abandonment)
Review Time (The Lock-up)	6 to 24 months	18 to 36 months (Critical delay for complex projects)
Required Studies	Simplified/full EIA, field routes, social impact	Marine risks, spill modeling, vessel tracking, offshore fauna

**Takeaway: Offshore exploration can freeze capital and strategic momentum for up to 3 years before data acquisition even begins.**

# The Hidden Cost Structure of Exploration Permits



## Top Tier: Direct State Costs

- **Award Bonuses:** Non-recoverable, millions of USD paid upon signing.
- **Application Fees:** Registration, processing, and annual royalties.

## Middle Tier: Operational Pre-Costs

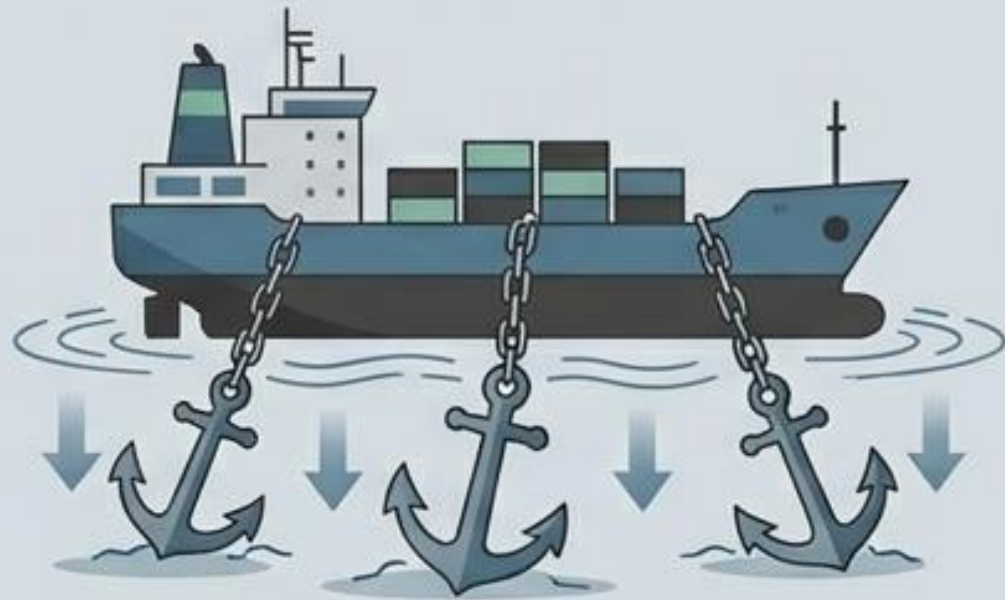
- **Macro Studies:** Internal E&P preliminary geological modeling and market studies.
- **ESIA Campaigns:** Costing hundreds of thousands of dollars for marine biodiversity and offshore scientific campaigns.
- **Advisory Fees:** Specialized oil industry lawyers and tax optimization consultants.
- **Insurance:** Premiums for pollution and well liability.

## Bottom Tier: Indirect/Friction Costs

- **Administration Incentives:** Indirect costs required to move documentation in certain developing regions.
- **NGO Compensations:** Costs for informal approvals to prevent project blockades.
- **Mandatory Joint-Venture Sharing:** Forced equity dilution on large projects.

# The Paradigm Shift: RSS-NMR as Stage Zero

## Traditional Permit



## Traditional Permit

Requesting a full exploration permit triggers all taxes, delays, and fees just to establish block viability.

## Stage Zero / Spy Mode



## Stage Zero / Spy Mode

Performing RSS-NMR exploration in Spy Mode. **Crucially, no** formal exploration permit is required for this phase.

## 10–15x Cheaper

Massive reduction in initial cost compared to conventional seismic.

## Direct Detection

Directly identifies fluid presence rather than just structural probability.

## 10x Risk Reduction

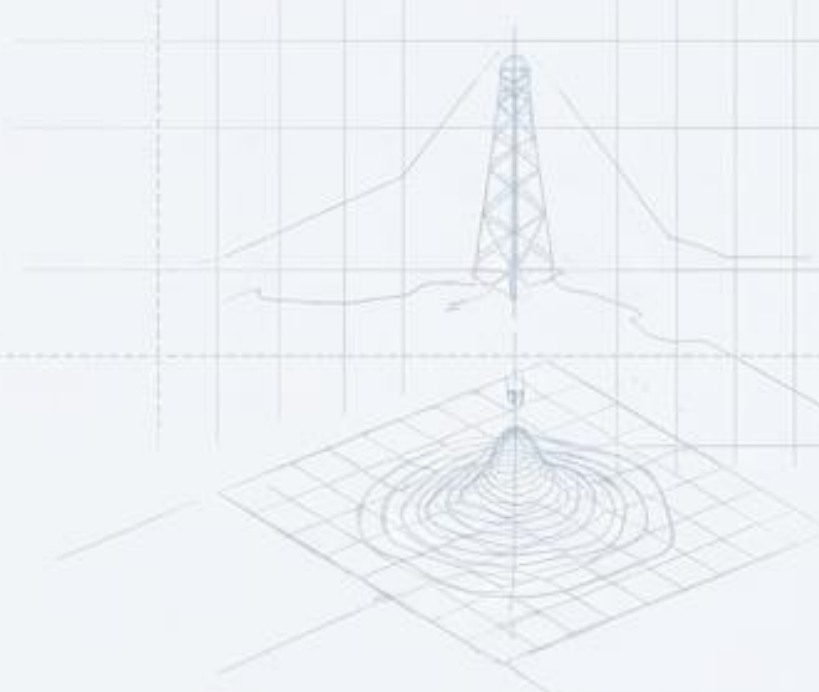
Drops the risk of drilling dry wells by a full order of magnitude.

# Technology Diagnostic: Reconnaissance vs. Heavy Infantry

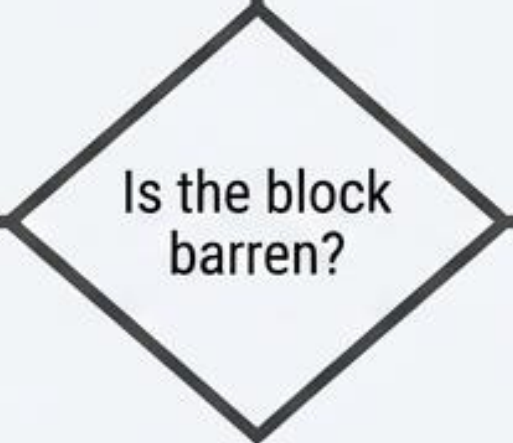
	RSS-NMR (Stage Zero)	Standard Seismic
Primary Output	Direct fluid detection & reservoir parameters.	Structural imaging & trap probability.
Legal Friction	None/Low (Spy Mode compatible).	Extremely High (Requires full PER/License).
Scalability	High (Economies of scale make large-area surveys highly cost-effective).	Poor (Costs and logistics multiply exponentially with area size).
Project Phase	Pre-screening & sweet spot isolation.	Final reservoir modeling & development planning.

**Key Takeaway:** RSS-NMR does not replace seismic; it protects your seismic budget.

# The Stage Zero Operational Logic



**Deploy RSS-NMR Scan (Spy Mode)**  
Zero permit fees paid. Zero heavy logistics.



YES

NO

Is the block barren?

**Largely Barren Block**

**Action:** Walk away immediately.

**Result:** Zero permit money wasted. No reporting to authorities required. Move to the next project.

**Hydrocarbon Sweet Spots Identified!**

**Action:** Management triggers formal exploration permit process.

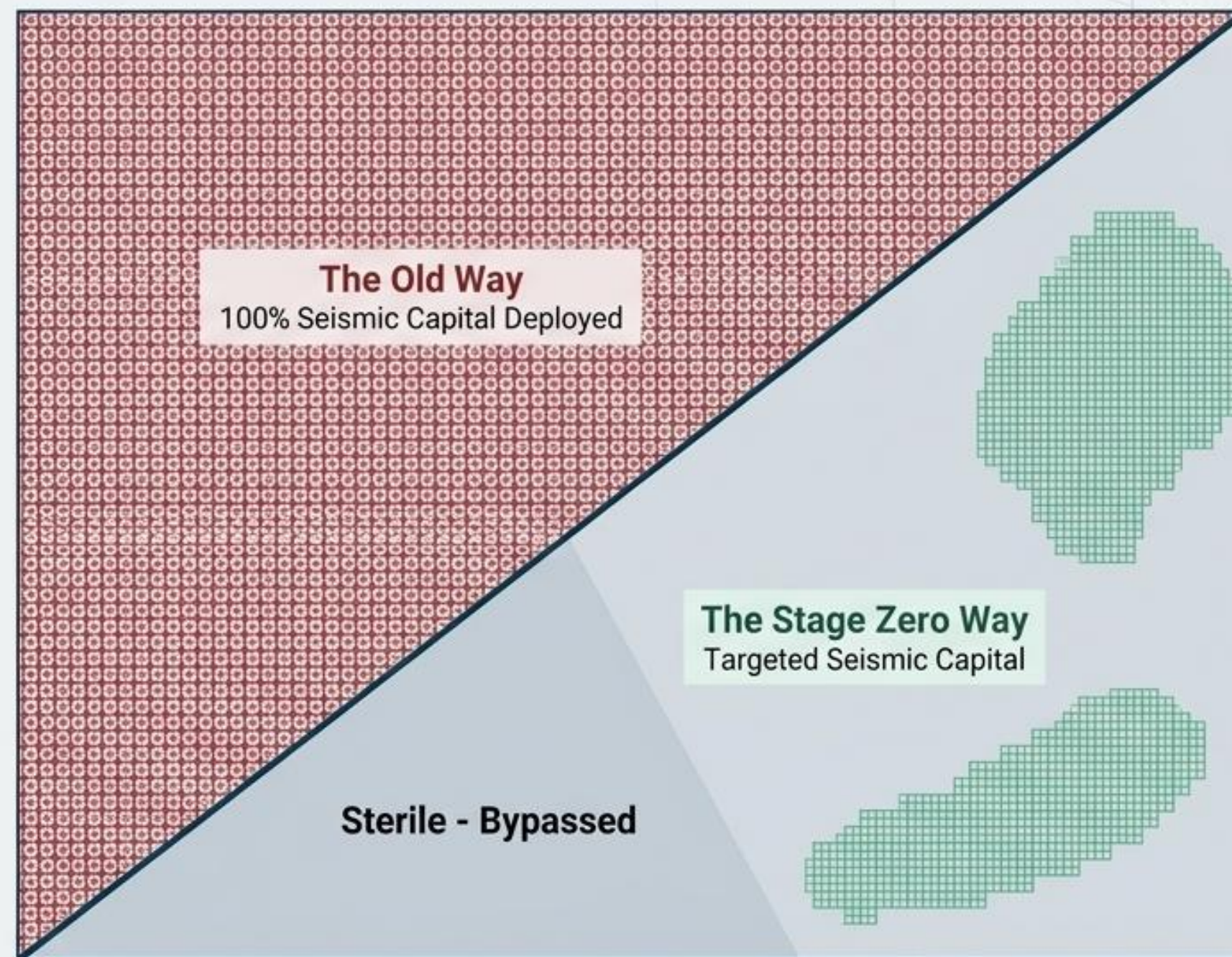
**Result:** Permit applications and ESIA costs are now backed by confirmed fluid presence.

# The 30% Strategy: Slashing Total CAPEX

By deploying RSS-NMR first, operators map the fluid presence across the entire block. This allows E&P teams to grey out 70-80% of barren territory.

Traditional, expensive seismic is then purchased only for the 20-30% of the map where high hydrocarbon probability is already confirmed.

**Avoids tens of millions of USD  
in unnecessary seismic  
campaigns and dry wells.**



# Operational Realities & Necessary Validation

## Limitations of RSS-NMR

- **Not a structural replacement:** Provides fluid presence but lacks detailed structural imaging.
- **Industry Skepticism:** Less widespread than seismic; may face skepticism from traditional regulators or joint-venture partners.

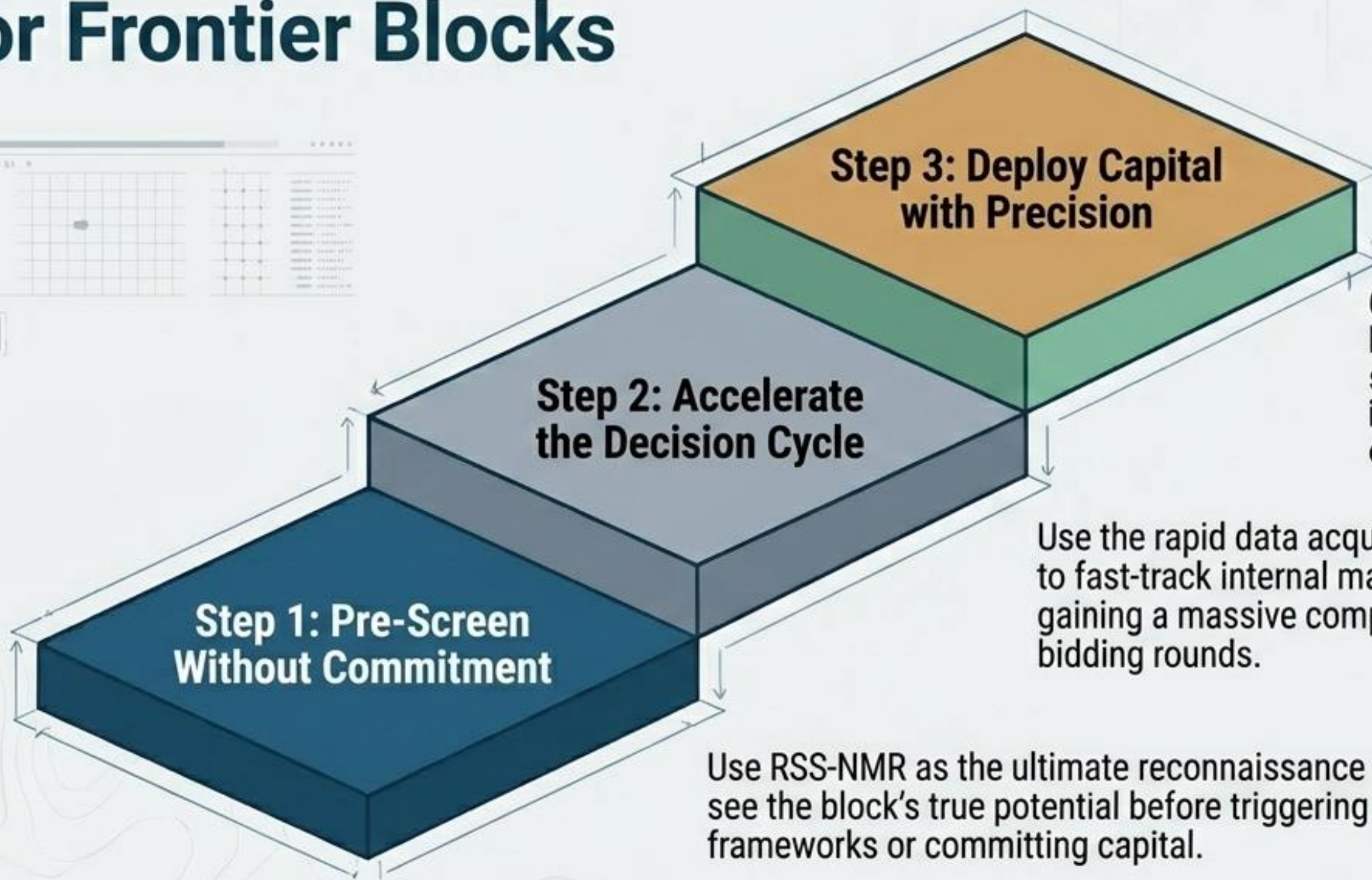
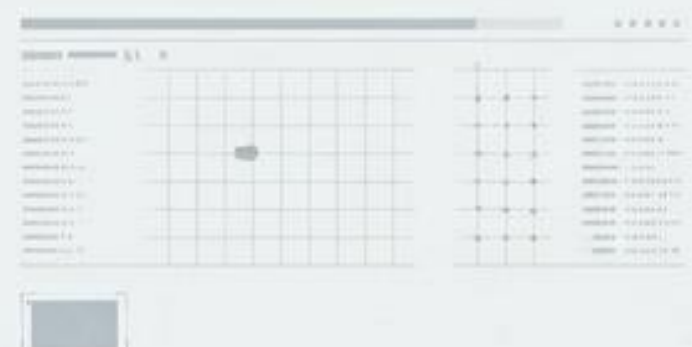


## The Validation Requirement

- **The Closer:** Seismic is still strictly required for final reservoir modeling and precise development planning.
- **The Drill:** RSS-NMR anomalies must ultimately be confirmed by targeted seismic and physical drilling before full field development.

**Summary:** RSS-NMR is the scout that finds the target; Seismic is the sniper that confirms the shot.

# The Strategic Playbook for Frontier Blocks



**Step 1: Pre-Screen Without Commitment**

Use RSS-NMR as the ultimate reconnaissance tool to see the block's true potential before triggering legal frameworks or committing capital.

**Step 2: Accelerate the Decision Cycle**

Use the rapid data acquisition of RSS-NMR to fast-track internal management decisions, gaining a massive competitive advantage in bidding rounds.

**Step 3: Deploy Capital with Precision**

Once a permit is secured for a viable block, follow up with heavy targeted seismic surveys **only in the identified promising areas**, perfectly optimizing CAPEX allocation.

# Executive Summary

10-15x

Cheaper initial  
exploration  
footprint.

~70%

Reduction in  
unnecessary  
seismic mapping.

0

Years wasted  
permitting structurally  
sterile blocks.

**Gain the ultimate competitive advantage.** See the fluids, isolate the sweet spots, and eliminate the financial burden of total coverage before your competitors even file their first permit.



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Valid from 20.10.2025 to 05.10.2026

Срок действия с по на

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 (EACN of the OJ 901809100)

Продукция: Методика расчета прогнозируемых запасов руд в глубинных залежах, с  
использованием параметров рудных тел, полученных с помощью дистанционных  
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Vice President  
Вице-президент



A.V. Solodov  
А.В. Солодов

002647

СИСТЕМА ДОБРОВОЛЬНОЙ СЕРТИФИКАЦИИ «ПРИНИП-ЭКСПЕРТ»  
Рег. № РОСС RU.31678.040010 от 18.10.2016 г.



## СЕРТИФИКАТ СООТВЕТСТВИЯ

№ РОСС RU.31678.040010

Срок действия с 20.10.2025 по 05.10.2026

№ 0057630

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Срок и условия выдачи сертификата: ООО «Группа Поиск», адрес: 299640, РОССИЯ, Севастополь, ул. Христофора, в. 143, сайт: www.poiskgroup.ru, телефон: +7(705)007-42-42, через интернет-портал: 001-prinip.ru

ПРОДУКЦИЯ: Методика расчета прогнозируемых запасов руд в глубинных залежах, с  
использованием параметров рудных тел, полученных с помощью дистанционных  
геологических методов геологического и полевого геофизического оборудования комплекса  
«Поиск» (код ТН ВЭД, ЕАЭС 901809100)

код ВЭД  
90.11.11

СООТВЕТСТВИЕ ТРЕБОВАНИЯМ НОРМАТИВНЫХ ДОКУМЕНТОВ

код ВЭД 8504

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НА ОБЪЕКТАХ

Продукция: Методика расчета прогнозируемых запасов руд в глубинных залежах, с использованием параметров рудных тел, полученных с помощью дистанционных геологических методов геологического и полевого геофизического оборудования комплекса «Поиск» (код ТН ВЭД, ЕАЭС 901809100)

ДОСТАВЛЯЕТСЯ НА СЕРТИФИКАЦИОННОМ

Этом сертификате:



Руководитель центра

Зеленчук

В.П. Фокина  
руководитель  
А.В. Николаев  
руководитель

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## HYDROCARBONS

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Copper  
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Nickel



## STRATEGIC

Uranium  
Diamonds  
Coal



## WATER RESOURCES

Drinking Water  
Underground  
Geothermal

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