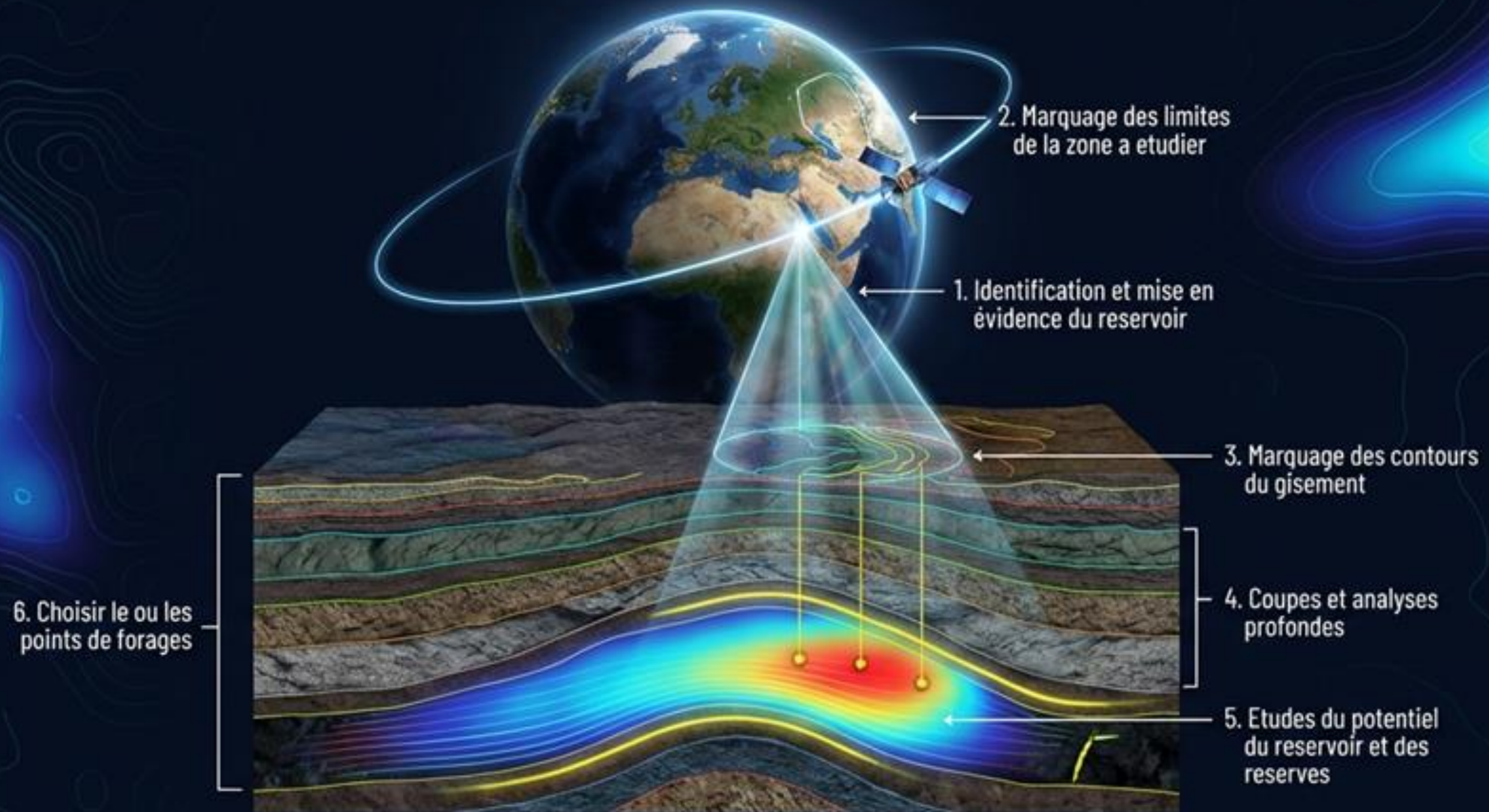


# THE INVISIBLE REVOLUTION IN OIL & GAS EXPLORATION

Reducing CAPEX, Optimizing OPEX, and Accelerating Discovery via RSS-NMR Technology.



See what others miss. Explore without a footprint.



# THE INDUSTRY CHALLENGE: HIGH STAKES, HEAVY FOOTPRINT



- **The Blind Auction Risk:** Acquiring blocks based on speculation leads to wasted CAPEX.



- **Logistical Paralysis:** Traditional Seismic requires permits, environmental impact assessments, and months of setup.



- **The Sinking EROI:** Energy Return on Investment has plummeted from 1:100 to 1:20.

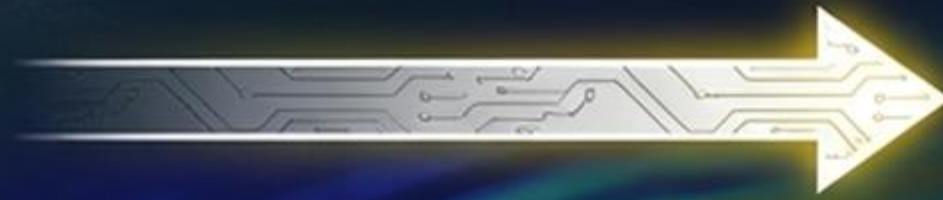
# THE "SMARTPHONE MOMENT" FOR GEOPHYSICS

From Heavy Hardware to Remote Digital Intelligence

## THE MEDICAL EVOLUTION



1980s: Massive MRI

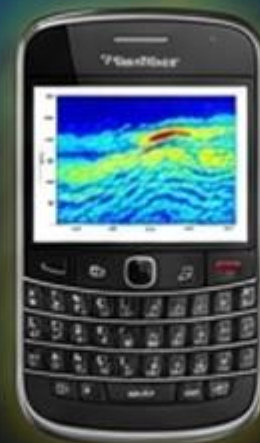


2020s: Butterfly Network

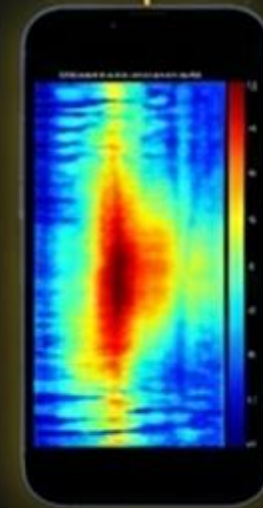
## THE GEOPHYSICAL EVOLUTION



1980s: 2D Seismic



2000s: 3D Seismic



2002

# Open Procurement for Oil, Gas, and Mineral Rights

Transparency in the awarding and management of oil, gas, and mineral rights can strengthen business participation, competition, and public trust. These recommendations and examples of good practice show how governments are making progress.



**Adopting a Broad Perspective**

For those unfamiliar with the full range of legal and regulatory procedures and the stakeholders overseeing the awarding of natural resource rights, the information can appear chaotic and confusing.

**1**

Using centralized information to fully and clearly explain the procurement system.

Bringing together information often from diverse sources to explain all the rules, procedures, stakeholders, and their interrelationships.

 Examples: the Internet Common Ground site, New South Wales (Australia); the Rondas Mexico website, CNH (Mexico).

**2**

Reconciling the information needs of businesses and citizens

Conduct broad consultations to avoid situations where the release of information is primarily intended for a specific group of stakeholders.

 Example: Regulatory Excellence Initiative, Alberta Energy Regulator (Canada)

**3**

Disclosure of the identity of decision-makers.

Disclose the identity of the decision-makers responsible for each stage of the procurement process.

 Examples: Public access area of the Oil and Gas Commission website, British Columbia (Canada); Rondas Mexico website, CNH (Mexico).




**PLANNING**

Gaps in planning can discredit the entire procurement chain and lead to enormous subsequent losses.

**4**

Release information regarding the geographic areas to be opened to the extractive industry and the rationale.

Release information regarding the decision-making processes for opening new areas to the extractive industry, as well as clear information on the boundaries of these areas

 Example: Norway.

**5**

Reconciling underground and surface rights with user needs.

Enabling all stakeholders to identify and reconcile overlaps between underground and surface rights and their needs.

 Example: The Common Ground New South Wales website.

**6**

Public explanation of the choice between the various allocation methods and how these methods apply to different situations.

Where it is possible to use more than one type of bidding procedure, clarify the allocation approach that applies to a given area.

 Example: The Petroleum and Minerals website, New Zealand.

**Use of RSS-NMR in "discreet mode" to understand the potential of oil blocks being auctioned**



**ALLOCATION AND AWARDING**

Award procedures can range from highly visible competitive tenders to routine, non-competitive requests. Certain basic transparency requirements remain valid in all cases

**7**

Diligent communication of the award procedure.

Ensure that communications are diligent, clear, and targeted at local stakeholders, not just the international trade press.

 Example: CNH (Mexico).

**8**

Publication of the rules of the game.

Publish all procedural rules, including timelines, submission requirements, and company evaluation criteria.

 Examples: the Mining Permits website, New Zealand; the Ronda Colombia 2014 website, ANH (Colombia); the Norwegian Petroleum Information Portal.

**9**

Declaration of interest by parties.

Publish the names of all companies applying for a right, along with information on beneficial owners. Use this information to shortlist candidates while avoiding the risks of conflicts of interest and corruption.

 Examples: Sierra Leone; Lebanon.

**10**

Publication of contacts of regulators with bidding companies.

Publish the contacts of regulators with bidding companies, along with all associated requests and clarifications

 Examples: Ronda Colombia 2014 website, ANH (Colombia); Ronda Mexico website, CNH (Mexico).

**11**

Conducting and publishing consultative procedures with communities.

Publish information on consultative procedures with communities regarding the awarding of rights.

 Examples: Northern Territory, Australia; the Philippines; Peru; Chile.

**12**

Publishing award results.

Publish the fundamental details concerning the award, ideally accompanied by information justifying the reasons for and manner in which certain decisions were made.

 Example: Zambia; CNH (Mexico); Alberta Energy Regulator.



**THE CONTRACT**

Transparency of contracts, licenses, or permits is essential, as these documents define the general terms and conditions associated with the right to explore or exploit natural resources.

**13**

Publishing contracts. For each project, publish the full text of the main contract, as well as any annexes and amendments, and compare them with other associated agreements, permits, approvals, and studies.

 Examples: Rondas Mexico website, CNH (Mexico); the Philippines; Sierra Leone; the DR Congo; Guinea; Mongolia.

**IMPLEMENTATION**

Publishing disaggregated implementation information for each extractive project is necessary to be able to review government and company compliance.

**14**

Publication of investments, production, and reserves.

Regularly publish updated information regarding the reserves, investments, exploration, and production of each project.

 Example: Norwegian Hydrocarbons Directorate's "Factpages."

**15**

Publication of revenues and profits.

Make information about each project public in accordance with EITI requirements, ideally incorporated directly into government systems rather than in separate reports, with payment and profit flows disaggregated at the levels most relevant to citizens.

 Example: GoSL's online directory, Sierra Leone.

**16**

Monitoring and publishing compliance with contract terms

Publish the commercial, social, and environmental results of each project and compare them to the rules established for that project to monitor compliance.

 Example: Alberta Energy Regulator; CNH, Mexico

# APPLICATION 1: SMART BIDDING

Know Before You Bid.



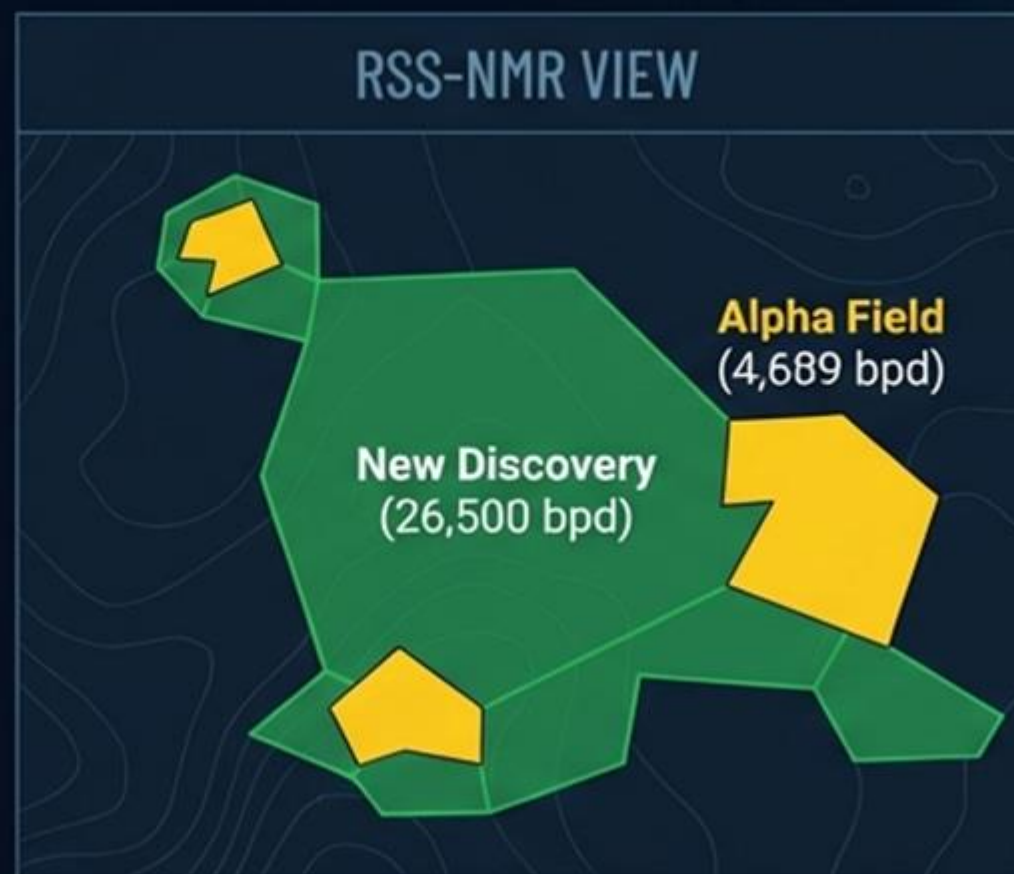


# APPLICATION 2: BREATHE NEW LIFE INTO MATURE ASSETS

## Optimization Without Interruption



With the 2D exploration done in the 80' they only put in production **4,689 bpd**



After a re exploration done by rss-nmr they do a discovering of **26,500 bpd** and put in production the **500 bpd** not developed

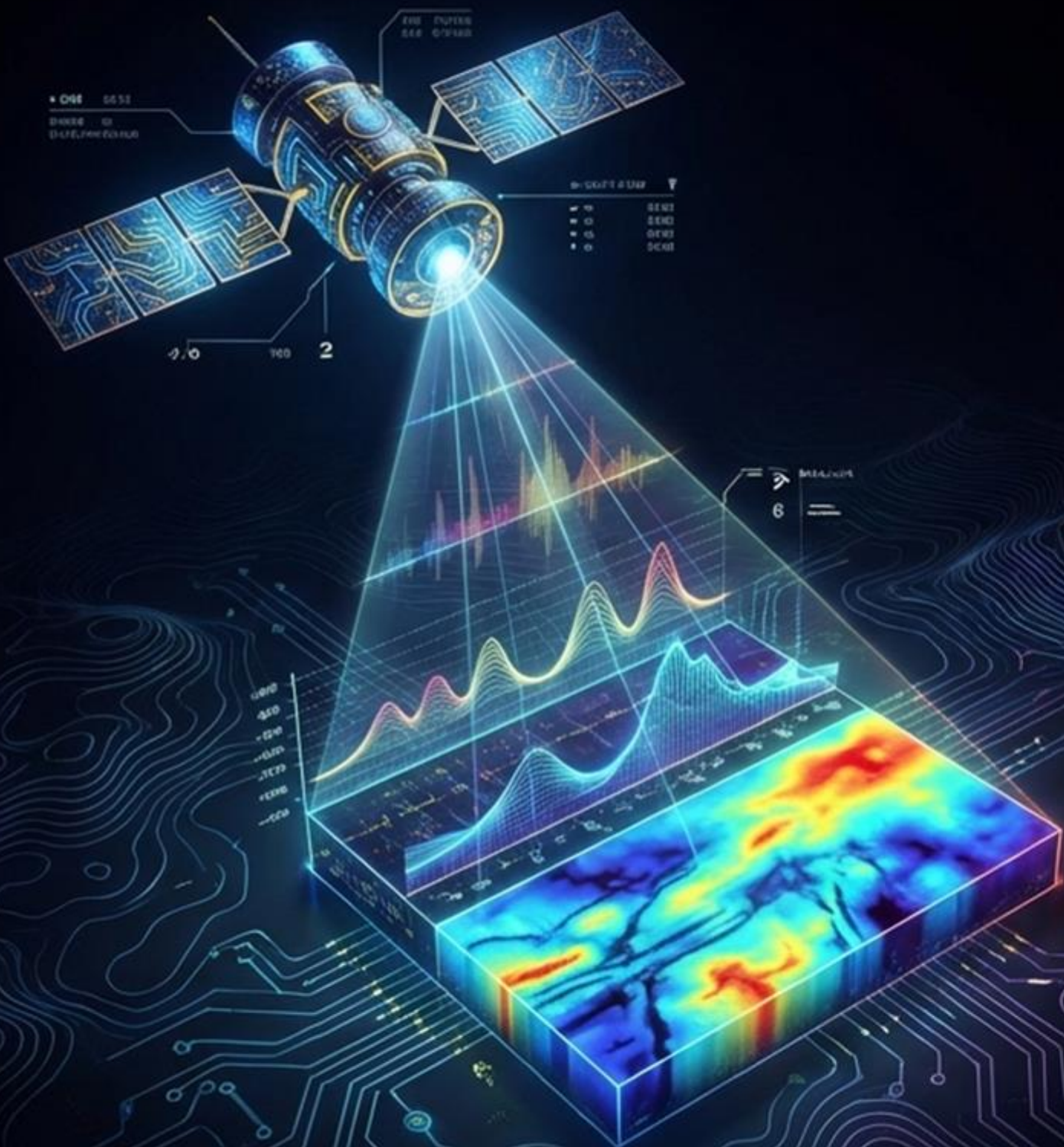
**No Shutdowns:** Re-map reservoir networks without stopping production.

**The 'Refurbish' Strategy:** Identify bypassed pockets and connect auxiliary fields to main production.

**OPEX Advantage:** Extend asset life using operational budget, avoiding risky new CAPEX.

# APPLICATION 3: M&A AND COMPETITIVE INTELLIGENCE

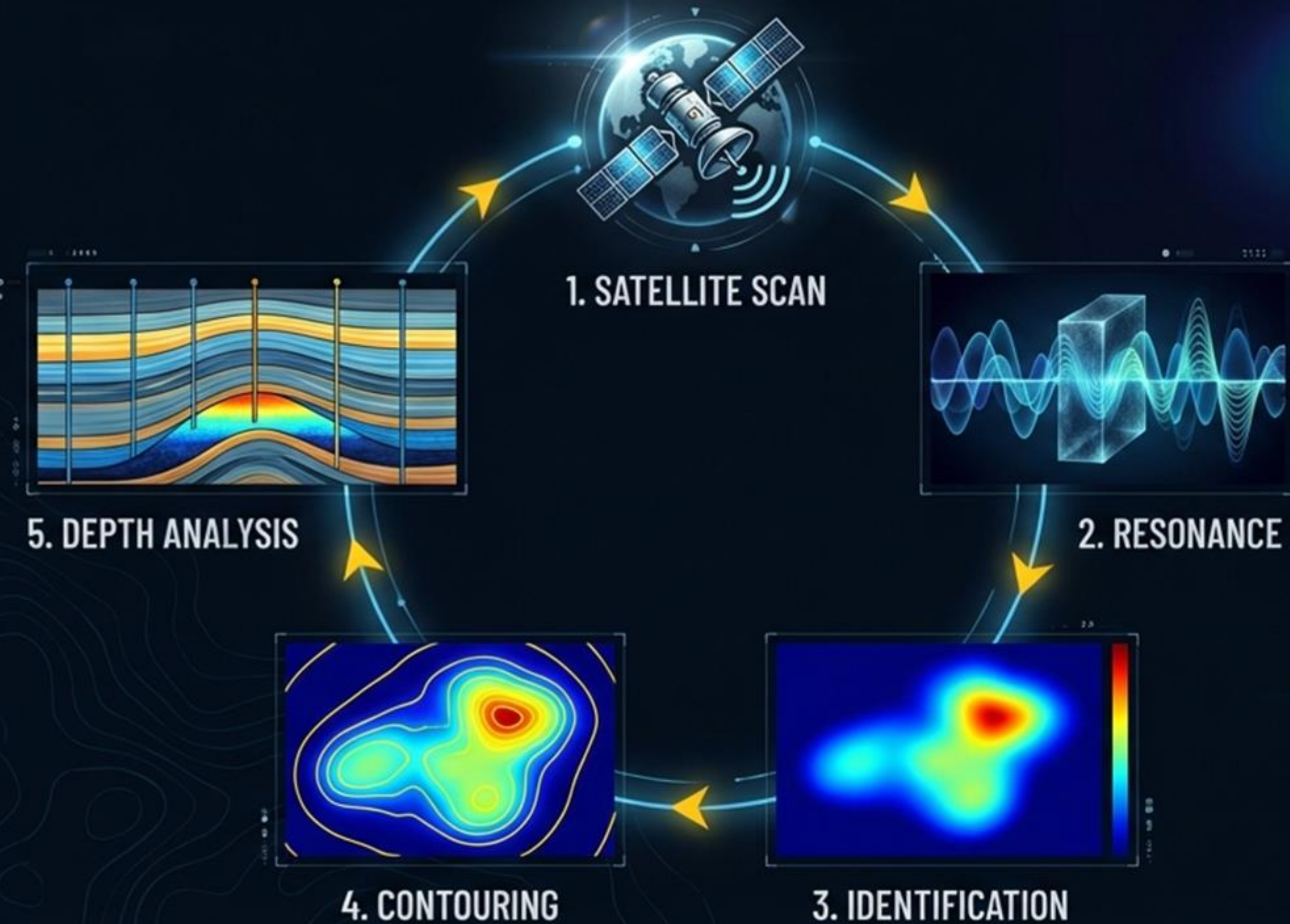
Due Diligence Through Remote "X-Ray."



- **Verify the Data Room:** Don't trust seller forecasts blindly. Verify the *real*<sup>\*</sup> asset situation remotely.
- **Discreet Evaluation:** Assess competitor assets or Joint Venture opportunities without their knowledge.
- **Negotiation Leverage:** Enter the deal armed with the truth about the reservoir's potential.

# DIRECT SUBSTANCE DETECTION

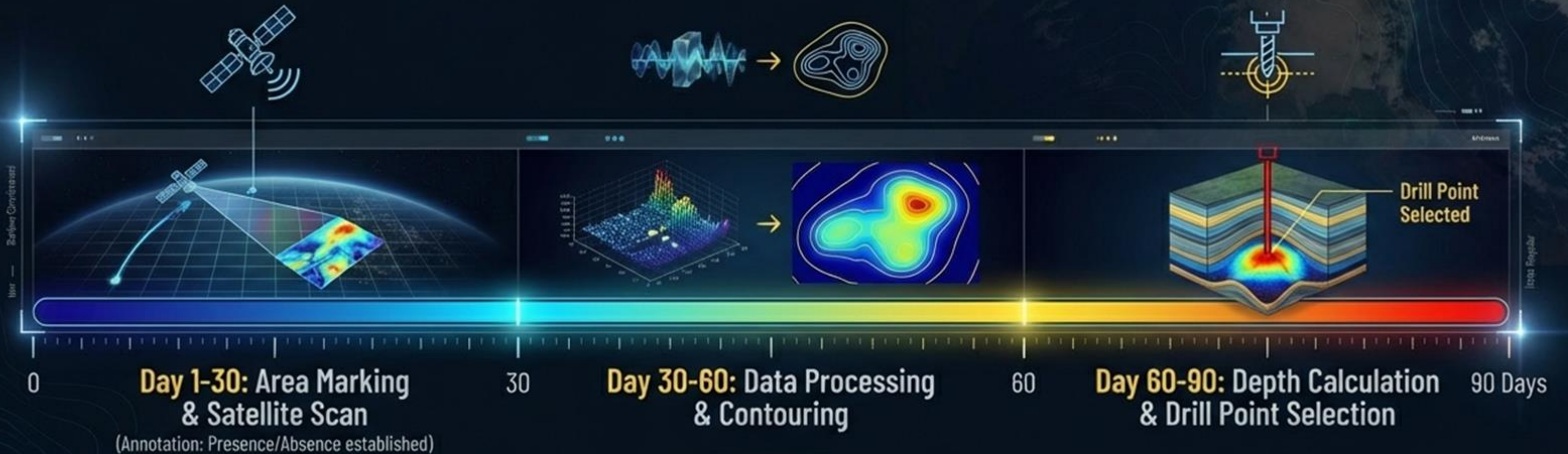
Detecting the Product (Oil/Gas/Water), Not Just the Anomaly.



METHOD COMPARISON	
<b>LEGACY SEISMIC</b>  Indirect. Looks for structural traps/anomalies where oil <i>*might*</i> be.	<b>RSS-NMR</b>  <b>Direct.</b> Uses resonant frequencies to <b>identify specific fluids.</b>

# FROM ORBIT TO DRILL DECISION IN <90 DAYS

Speed is the ultimate competitive advantage.

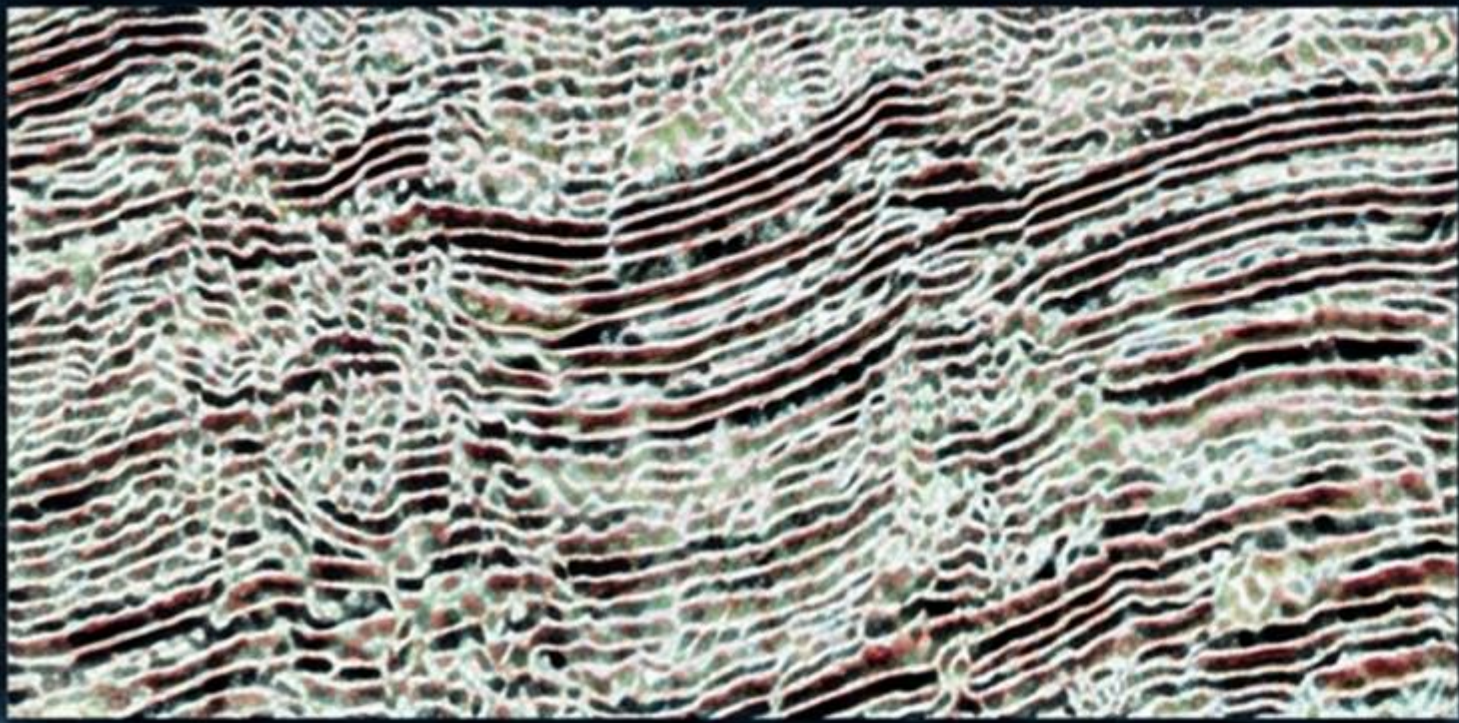


Traditional Seismic Timeline: 12-24 Months (Permitting + Logistics + Processing)

# PRECISION MAPPING UP TO 6KM DEPTH

High-resolution vertical scanning provides a clear slice of the reservoir.

## LEGACY SEISMIC: REQUIRES INTERPRETATION

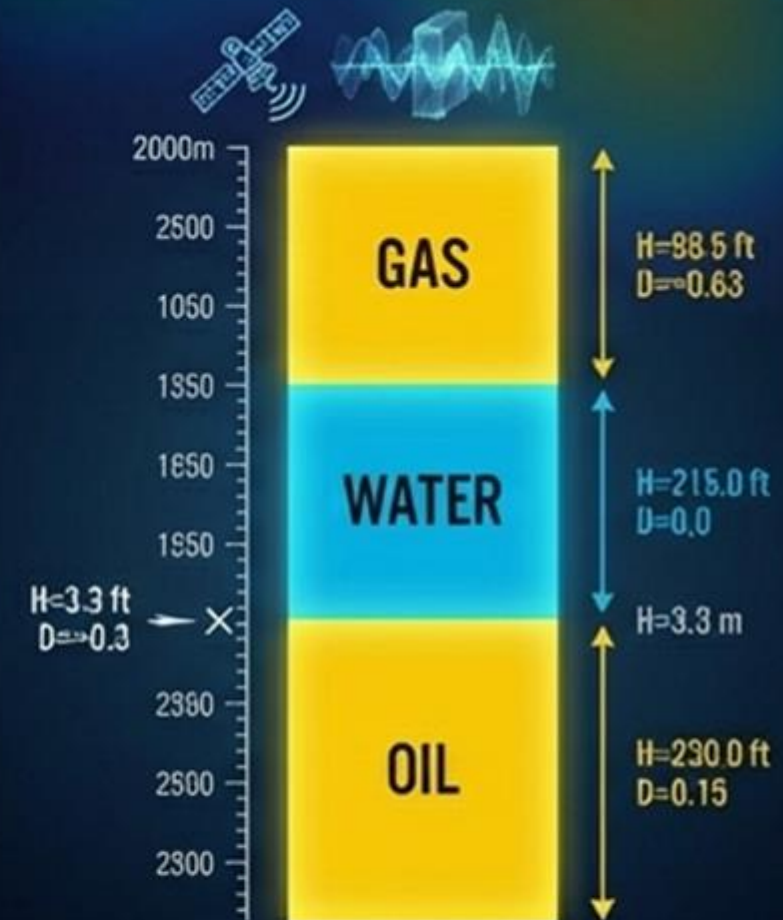


Complex data, indirect interpretation.

## KEY CAPABILITIES

- **DISTINGUISH HYDROCARBONS FROM WATER.**
- DETERMINE **THICKNESS** AND **HYDROSTATIC PRESSURE.**
- EFFECTIVE DOWN TO **6,000 METERS.**

## RSS-NMR VERTICAL READOUT: DIRECT DETECTION



GAS (Yellow), WATER (Blue), OIL (Yellow), WATER+GAS (Blue/Yellow Mix)

# THE COST OF BLIND EXPLORATION

Don't pay to scan the haystack. Pay only to scan the needle.

## SYSTEMATIC SEISMIC (WHOLE BLOCK)

Area: 1200 km<sup>2</sup>

Cost: **\$22.8 MILLION**

Time: 1 Year

## SELECTIVE SEISMIC (RSS-NMR GUIDED)

Area: 226 km<sup>2</sup> (Focused)

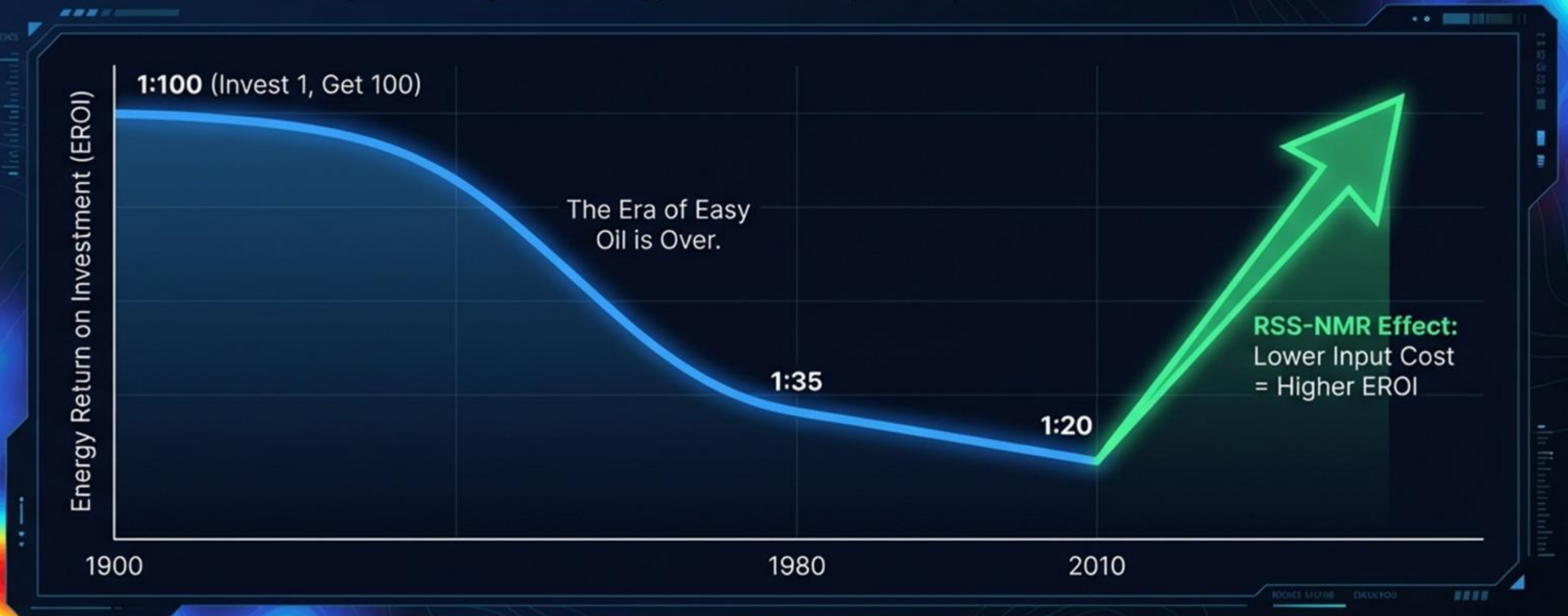
Cost: **\$4.3 MILLION**

Time: Rapid Turnaround

Target Zones

# REVERSING THE EROI DECLINE

Drastically lowering the energy and cost input required to find new barrels.

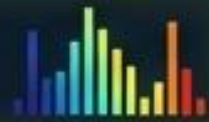


# TECHNOLOGY COMPARISON MATRIX

METRIC	RSS-NMR	TRADITIONAL SEISMIC (2D/3D)
Detection Method	Direct Substance (Resonance)	Indirect Anomaly (Sound)
Speed	<b>90/150 days</b> ✓	12-24 Months ⚠
Cost	Low (Selective Target) ✓	High (Systematic Scan) ⚠
Logistics	Zero Footprint (Remote) ✓	Heavy (Trucks/Ships) ⚠
Permitting	None Needed ✓	Mandatory & Slow ⚠
Production Impact	Zero Interruption ✓	Potential Shutdowns ⚠

# THE ASYMMETRIC ADVANTAGE

## SPEED

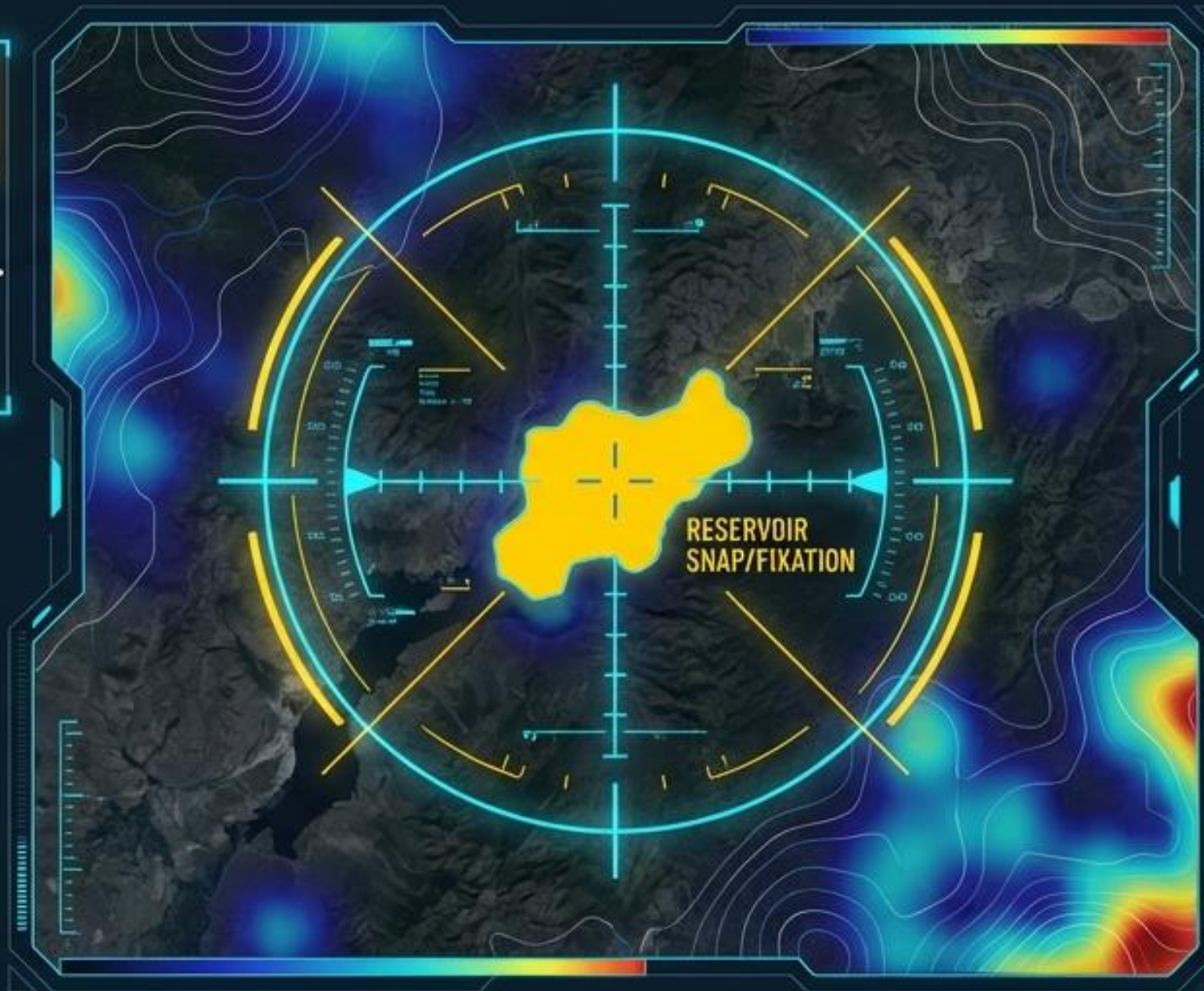


Stage 1 results in 30 days.  
Drill decisions in <90.

## ANONYMITY



"Ghost Mode"  
exploration. No  
competitors alerted.



## EFFICIENCY



Massive CAPEX/OPEX  
reduction.

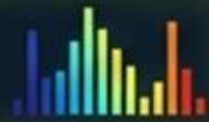
## ACCURACY



Direct detection  
eliminates dry holes.

# THE ASYMMETRIC ADVANTAGE

## SPEED

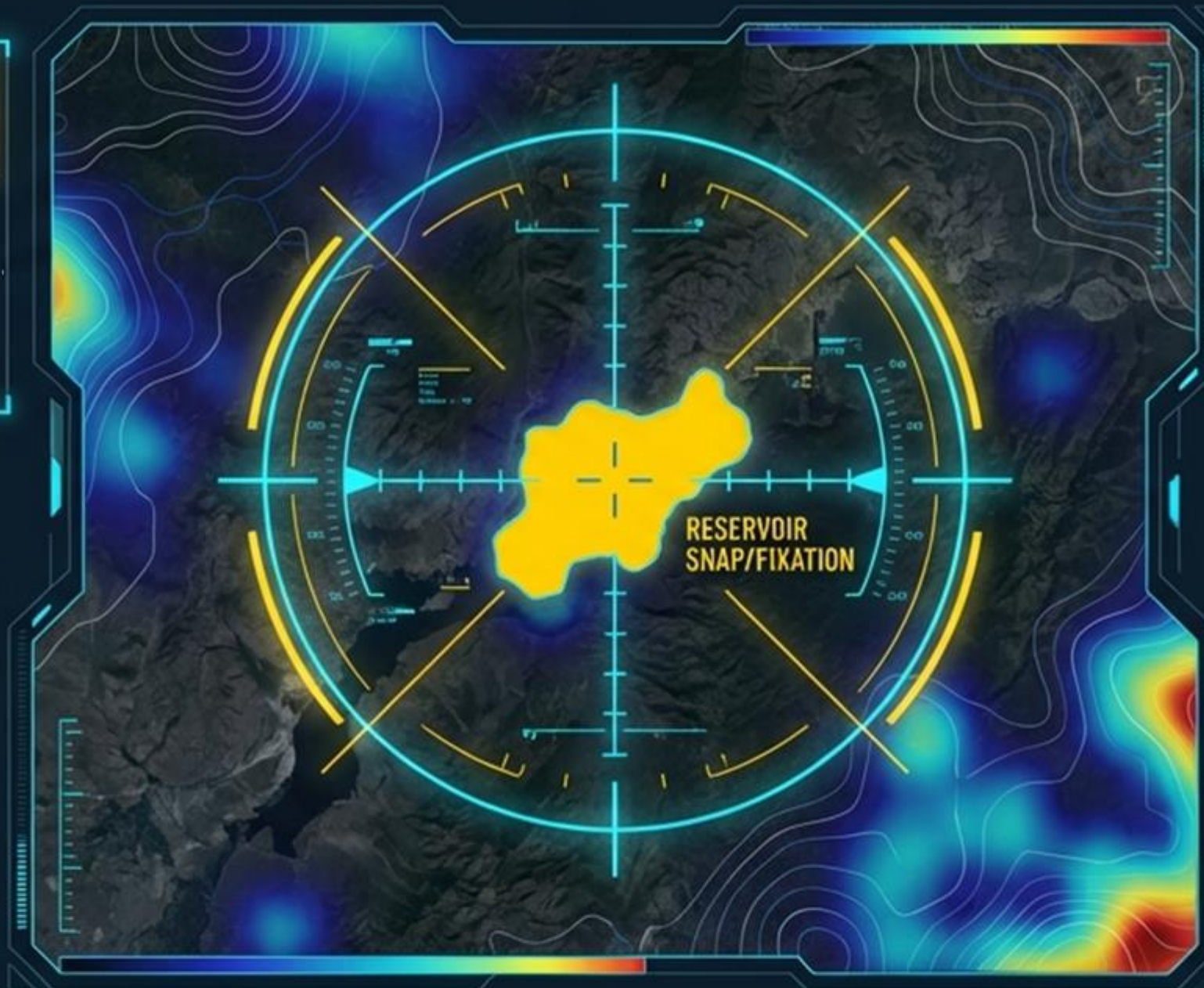


Study done in 120/180 days  
Drill decision easy to do

## ANONYMITY



"Ghost Mode"  
exploration. No  
competitors alerted.



## EFFICIENCY



Massive CAPEX/OPEX  
reduction.

## ACCURACY



Direct detection  
eliminates dry holes.



**RSS NMR**

# READY TO SEE WHAT OTHERS MISS?

Engage Funds-LLC for a discrete, anonymous pre-exploration study of your next target block.

**Costs are a fraction of a 2D archaic seismic and with an accuracy at 90 %**



# Funds - LLC

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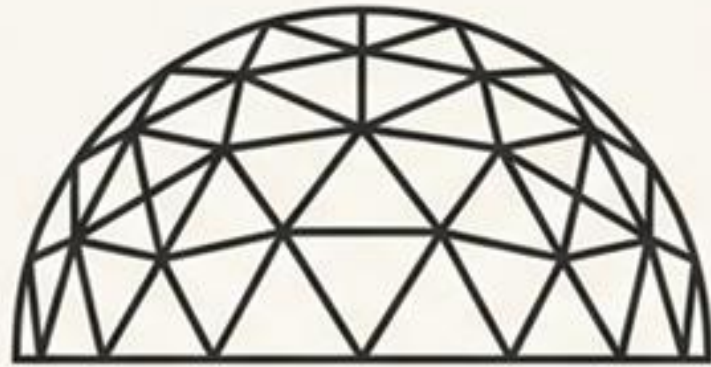
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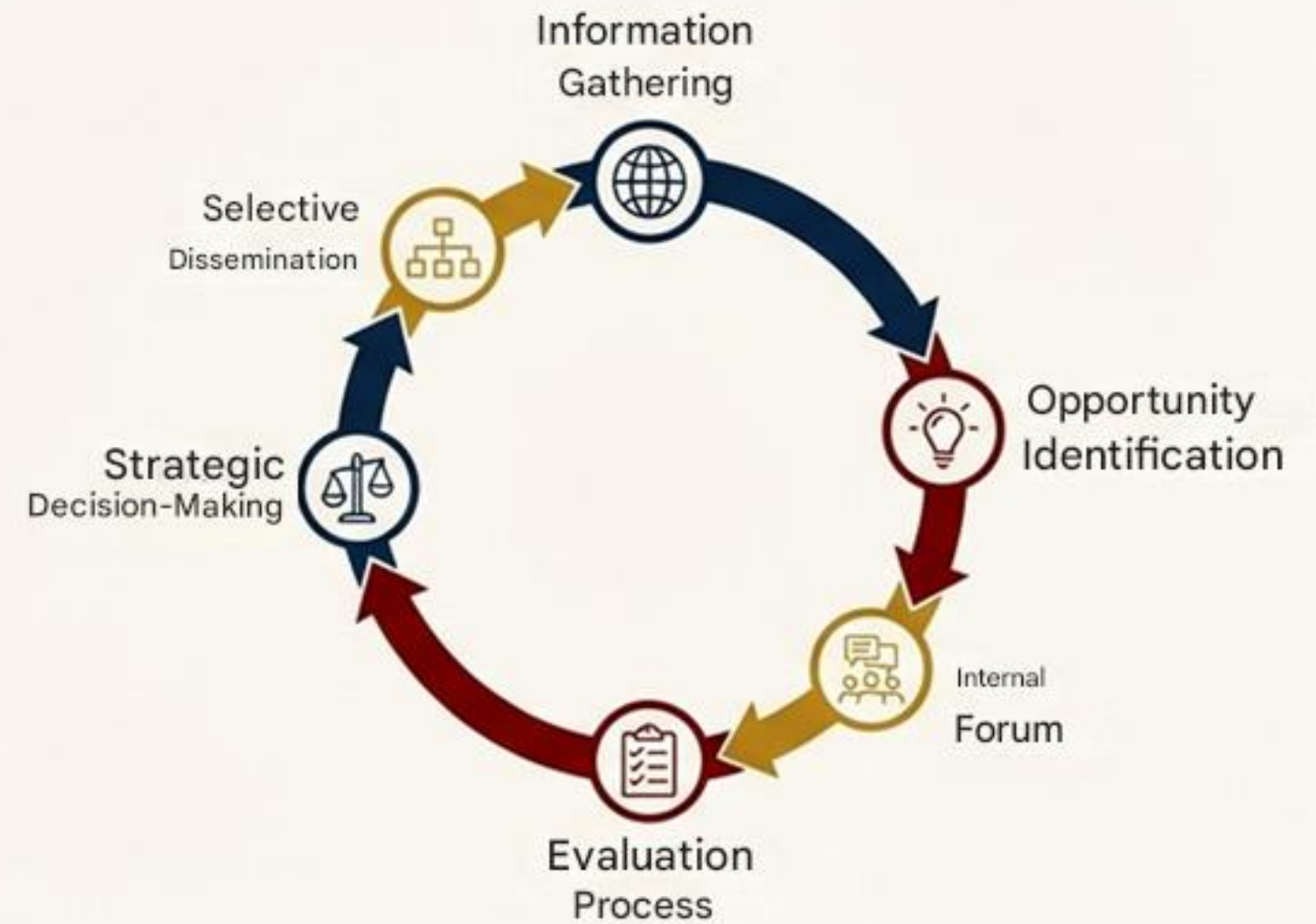
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# FANDS-LLC

Proactive Economic Intelligence



FANDS-LLC is a proactive economic intelligence firm specializing in strategic analysis and technological solutions for critical sectors. We are ready to collaborate on the implementation of this national resurgence plan.

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