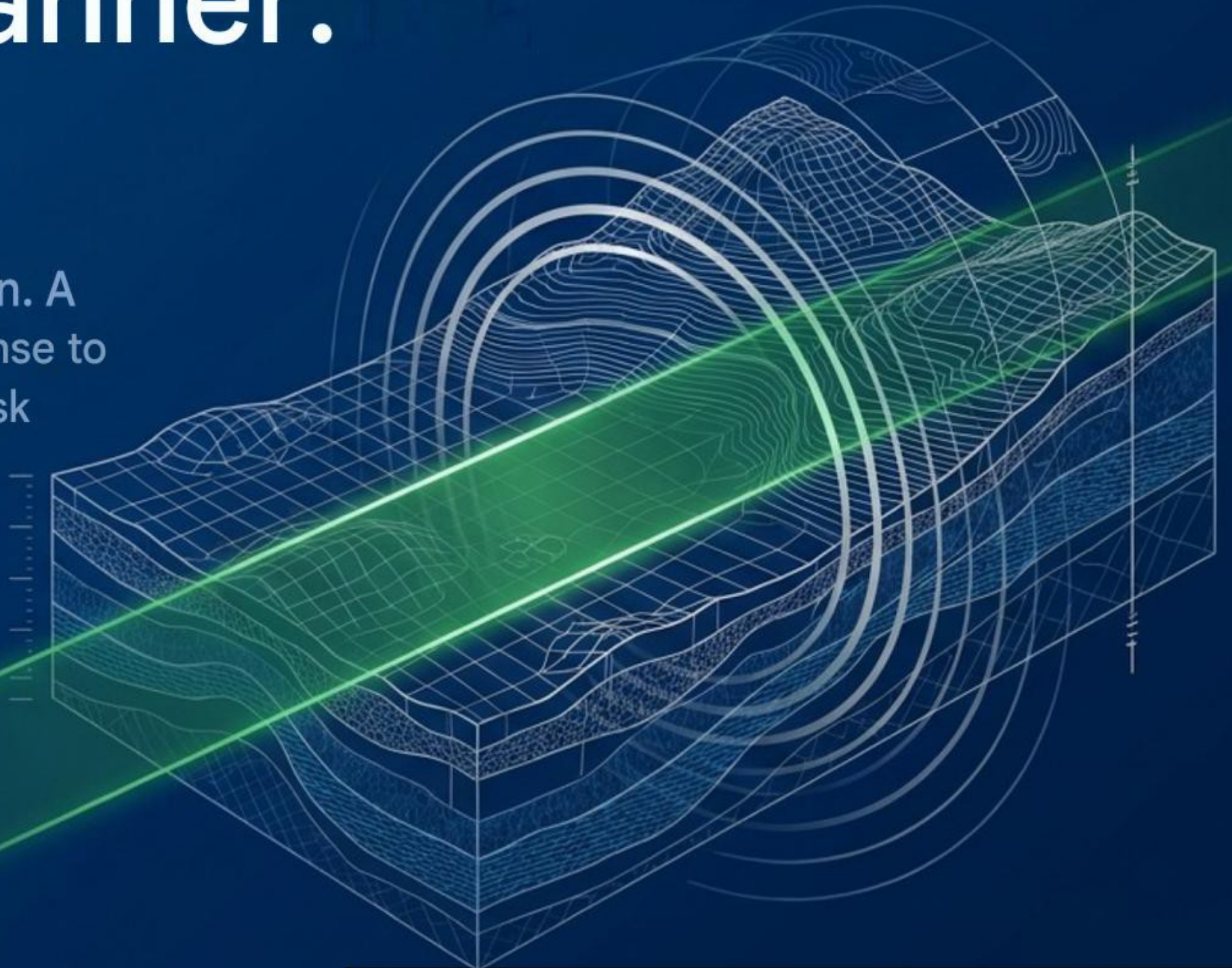


The Earth Scanner: RSS-NMR

From brute force to surgical precision. A new standard to ensure the Social License to Operate and neutralize environmental risk in Latin America.




The High Cost of Traditional Seismic Surveys: Guaranteed Friction




Invasive Operation

Massive brigades, heavy machinery, and systematic use of explosives and vibrators.



Ecological Impact

Deforestation, road opening, extreme noise, and violent alteration of fauna and soil structure.



Social Reaction

Community blockades, NGO intervention, litigation, and total loss of social license.

The invasive exploration model is incompatible with current ESG standards



Republic of Eastern Gwondana



AGENDA

- ITEM 3:
- **3D SEISMIC SURVEYING
OF THE BLIKAI BLOCK**

Discussions and controversies regarding permitting 3D seismic scanning in the BLIKAI block



Reference: Legislative Environment

The Paradigm Shift: Invisible and Precise Exploration



The Past (Mechanical)

Conventional 2D/3D Seismic.
Based on physical destruction to
obtain data.



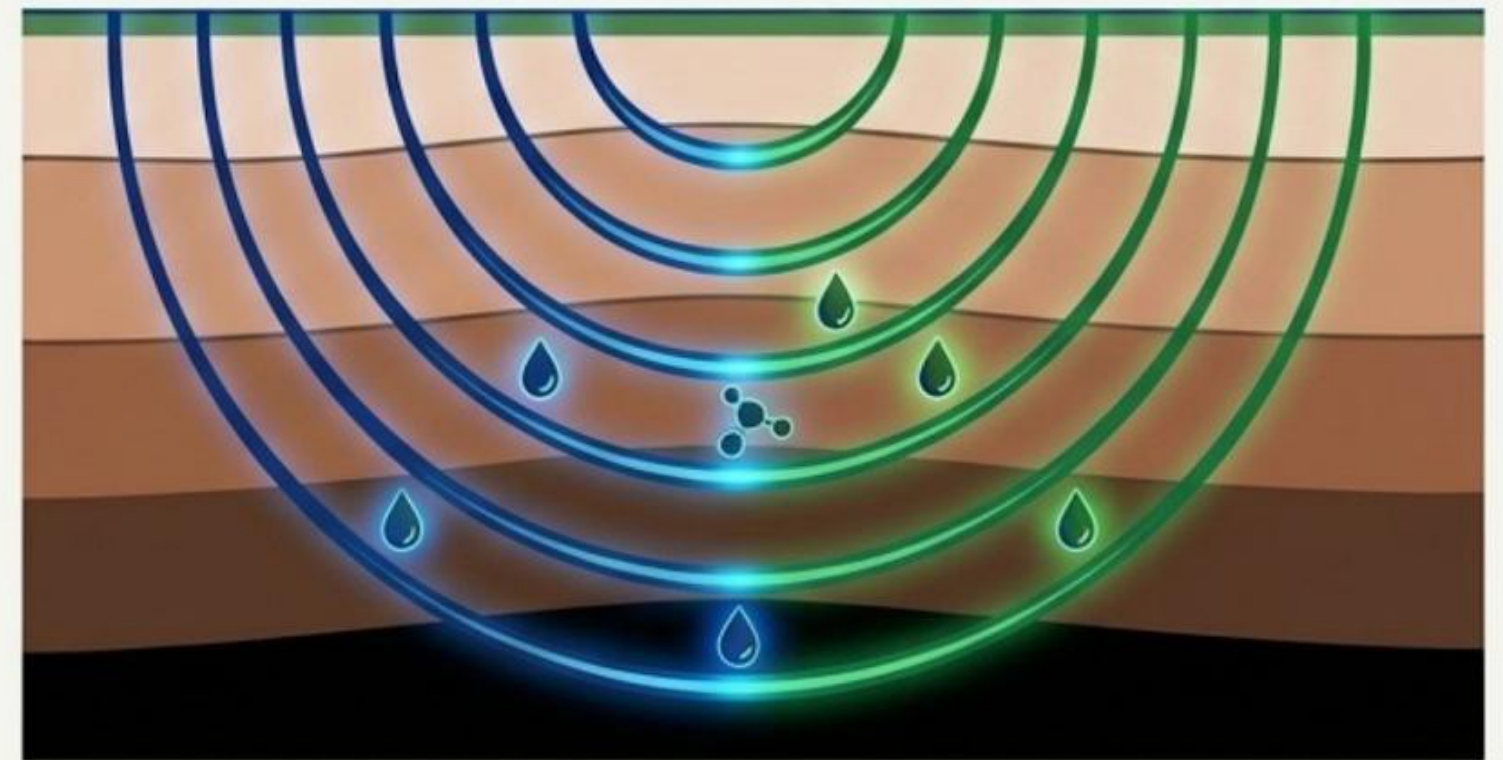
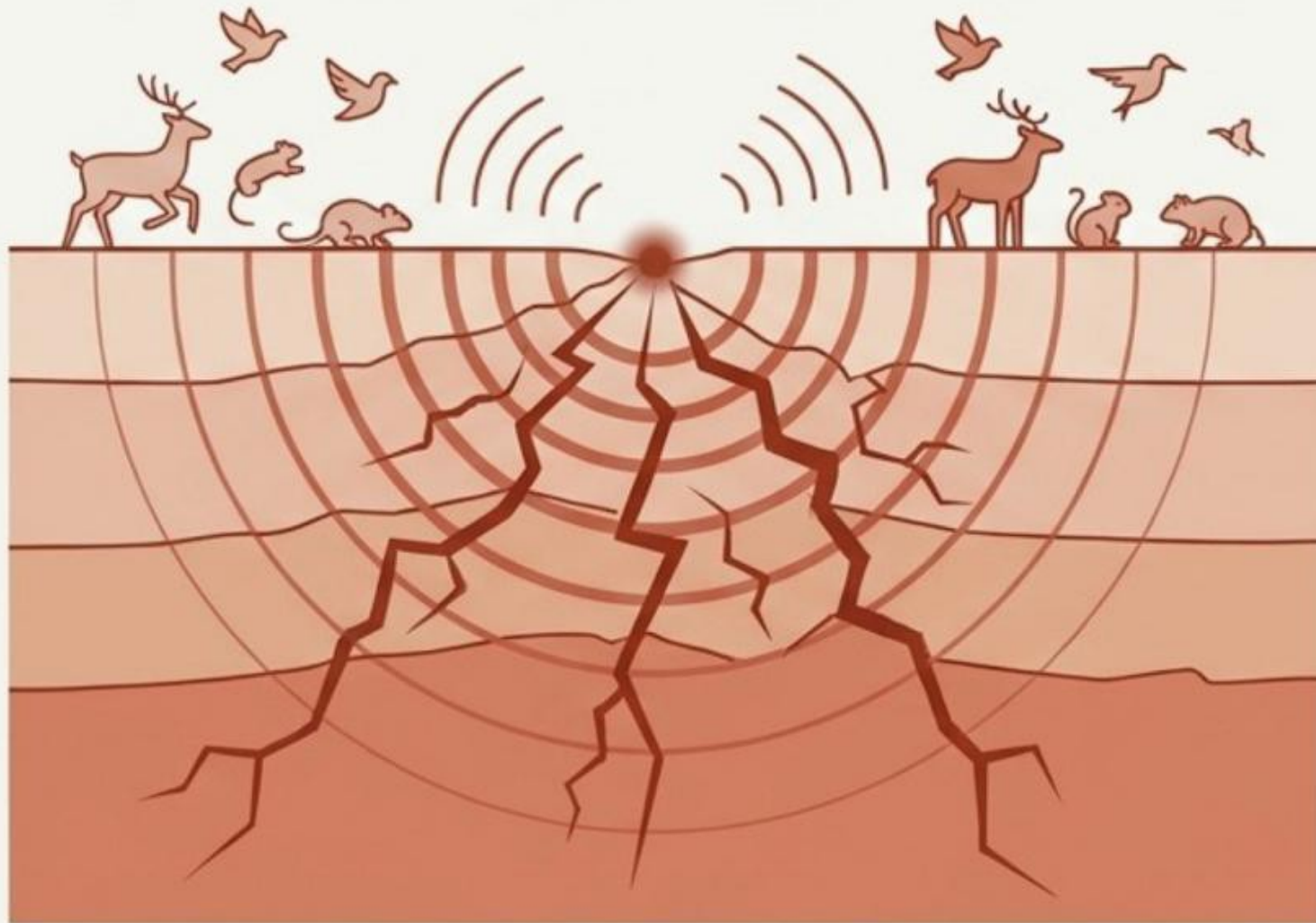
The Future (Magnetic)

RSS-NMR (High-resolution seismostratigraphy +
Nuclear Magnetic Resonance). Based on molecular
signatures and radio frequencies.



RSS-NMR technology is not just an operational improvement; it is a strategic shield that mitigates the ecological impact and disarms social opposition from phase zero.

Anatomy of Impact: Shock Waves vs. Molecular Resonance



Mechanical Trauma

Generates destructive shock waves that physically alter the environment and create noise pollution.

Passive Reading

Uses radio frequency pulses and magnetic fields to detect specific fluids without disturbing the subsurface. Zero noise, zero vibrations.

The RSS-NMR Strategic Framework



Pillar 1: Absolute Environmental Protection

Drastic reduction of the ecological footprint, eliminating deforestation, noise, and emissions.



Pillar 2: Community Trust and Water Security

Transparent, empirical data that protects agricultural lands and guarantees the preservation of local aquifers.



Pillar 3: Strategic Neutralization of NGOs

Scientific dismantling of blocking arguments, transforming the corporate defensive stance into proactive leadership.



INSTITUTIONAL CONTEXT OF THE PRESENTATION

Legislative Transparency

The interaction protocols guarantee a balance of interests between the development of Paraguay's energy resources and respect for local communities through accredited NGOs.

The advisory committee of the Chamber of Deputies has unified this data to establish a standard framework for future concessions in the exploration blocks of the Western Region.

FILE NOTE:

The complete documentation and dialogue annexes have been submitted for plenary debate.

Issue to be studied in the assembly

RSS-NMR: The New Paradigm of Sustainable Exploration

RSS-NMR technology represents a paradigm shift compared to invasive conventional seismics. While the traditional method uses explosives and heavy machinery, RSS-NMR operates remotely, without emissions, and with molecular precision to protect the environment and water resources.

ENVIRONMENTAL IMPACT	CLASSIC SEISMICS	RSS-NMR
ENVIRONMENTAL IMPACT	CLASSIC SEISMICS	RSS-NMR
GLOBAL IMPACT	Alto Impacto ecológico	Cero daño ecológico
WASTE AND EMISSIONS	Combustibles y químicos	Cero emisiones y residuos
ACCESSIBILITY	Limitada en zonas protegidas	Fully viable in sensitive areas

ENVIRONMENTAL IMPACT COMPARISON
From physical invasion to remote technology.

- Classical seismics requires heavy machinery
- RSS-NMR has no human presence
- High ecological impact. Ground vibrations, noise and shock waves from explosives
- Zero damage to the local ecosystem. Eliminates deforestation, noise and vibrations from explosives
- Risk to aquifers. Incidencia de contaminación accidental durante perforaciones.
- Surgical aquifer protection. The system detects leaks at ground level to prevent accidental contamination during drilling

SOCIAL MANAGEMENT AND RELATIONSHIP WITH NGOs

- Social license based on transparent data. Offers scientific certainty to communities about the security of their water resources.
- Neutralizing conflicts with NGOs. Disarmes blocking arguments through empirical evidence on geological cycles.
- Drastic reduction in damage compensation. By not using heavy machinery, so entangles invasive rural infrastructure.

As NotebookLM



Republic of Eastern Gwondana



AGENDA



USE OF THE RSS-NMR BY THE BLIKAI BLOCK

*Presentation of the results of the vote
to authorize the start of the use of the
RSS-NMR



Reference: Legislative Environment



COMPARATIVE ANALYSIS OF THE TREATMENT OF NGO MEMBERS

Evaluation of interaction protocols with companies in charge of operations in the 3D Seismic and
RSS-NMR (Blikal Block) projects.



PROTOCOL DIFFERENCES: 3D VS. RSS-NMR

3D Seismic Project

- Structured Dialogue: Mechanisms for prior consultation and regular dialogue with civil society organizations.
- Controlled Access: Entry to operational areas is strictly regulated and supervised by technical personnel.
- Logistical Support: Partial logistical support to facilitate technical visits by NGOs.
- Environmental Monitoring: Collaboration under a strictly participatory environmental monitoring scheme.



RSS-NMR Project

- Distributive Accreditation: The entry accreditation process is agreed upon collectively by various organizations.
- Open Access: Open access is guaranteed over the entire geographic area of the seismic survey.
- Direct Collaboration: Strategic alliance and full on-site collaboration between NGOs and the public company Petropar.
- Indirect Transparency: Data is delivered transparently and institutionally through reports to Parliament





Republic of Eastern Gwondana



COMPARATIVE ANALYSIS OF THE TREATMENT OF NGO MEMBERS

*Detailed exposition of the differences in treatment and interaction protocols for NGO members in the 3D Seismic and RSS-NMR projects.

3D SEISMIC PROJECT

TREATMENT OF NGO MEMBERS

- Prior consultations and regular dialogue.
- Supervised access to the operating areas.
- Participatory environmental monitoring.
- Partial logistical support for field visits.



RSS-NMR PROJECT (BLIKA1 BLOCK)

TREATMENT OF NGO MEMBERS

- ACCREDITATION IS DECIDED AMONG THE VARIOUS ORGANIZATIONS
- FREE ACCESS TO THE SEISMIC ZONE
- THEY WILL ACCESS THE FINAL REPORT VIA THE GWO PARLIAMENT
- Petrogwondana PLENA BETWEEN NGO AND PETROPAR



Reference: Comparison of interaction protocols - See annexes and technical documents

Environmental Diagnosis: The Operational Difference

Environmental Aspect	Classical Seismic	RSS-NMR
On-site Intervention	★ Crews and heavy machinery in the field	✓ Remote technology, no human presence on the ground
Ecosystem disturbance	★ Deforestation, road opening	✓ Intact ecosystem, undisturbed
Noise pollution	✗ Shock waves and explosives	✓ No noise or vibrations
Waste and emissions	★ Fuels, dust, chemicals waste, wastes	✓ Zero emissions and zero waste
Accessibility	✗ Limited/Prohibited in protected areas or parks	✓ Fully viable in sensitive areas
Global impact	✗ High ecological impact	✓ Zero ecological damage

The Contrast on the Ground

1- Deforestation of the area to be observed



High Ecological Impact

Preparation of the area to be subjected to seismic prospecting (tree felling, creation of truck roads and camping platforms).



The elements that contain: don't be environmental hazards, due to damage to the natural environment or natural systems.



Ecological Impact

An ecological impact as if to carry out the construction by eliminating the ecological damage.



Natural Fauna

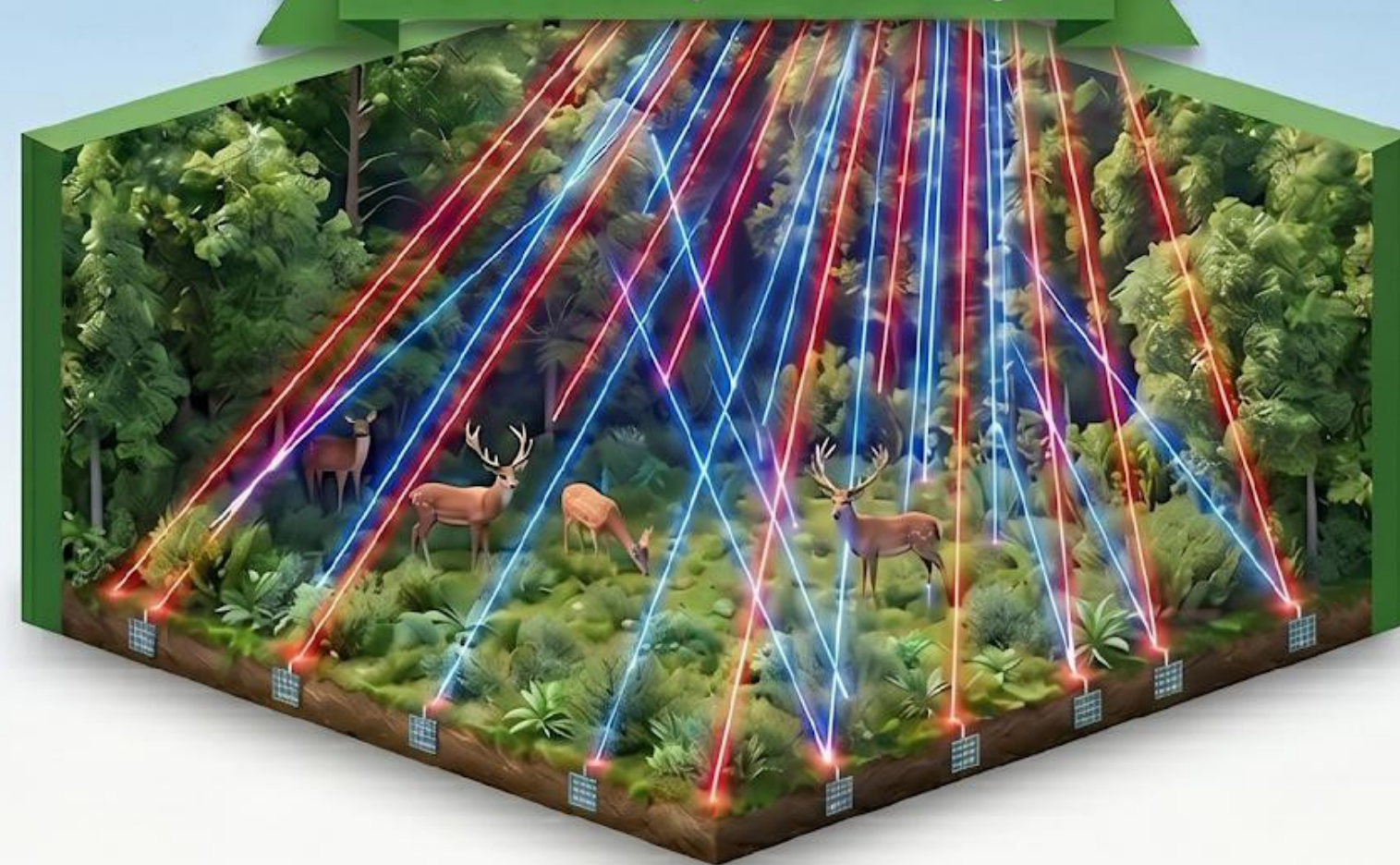
The construction of a natural plant and the creation of plans for a controlled environment.



Zero Ecological Damage

The selected damage to plants of natural, ecological, and other species that are present.

Zero Ecological Damage



The elements that contain: don't cut into natural hazards, due to damage to the natural environment or natural systems.



Ecological Impact

An ecological impact as a means of constructing an ecological element.



Natural Fauna

The direct consumption of plants of natural and other species for sustainable purposes.



Zero Ecological Damage

The selected damage to plants of natural, ecological, and other species that are present

The Contrast on the Ground

2-Preparation of the platform, campsite, and access roads.



High Ecological Impact



Zero Ecological Damage



Eliminates the need to deforest seismic lines.



Silent operation that
does not scare away local wildlife.



Total preservation of rural infrastructure and ecosystems.

The Contrast on the Ground

3D Seismic Operations



High Ecological Impact



Zero Ecological Damage



Eliminates the need to deforest seismic lines.

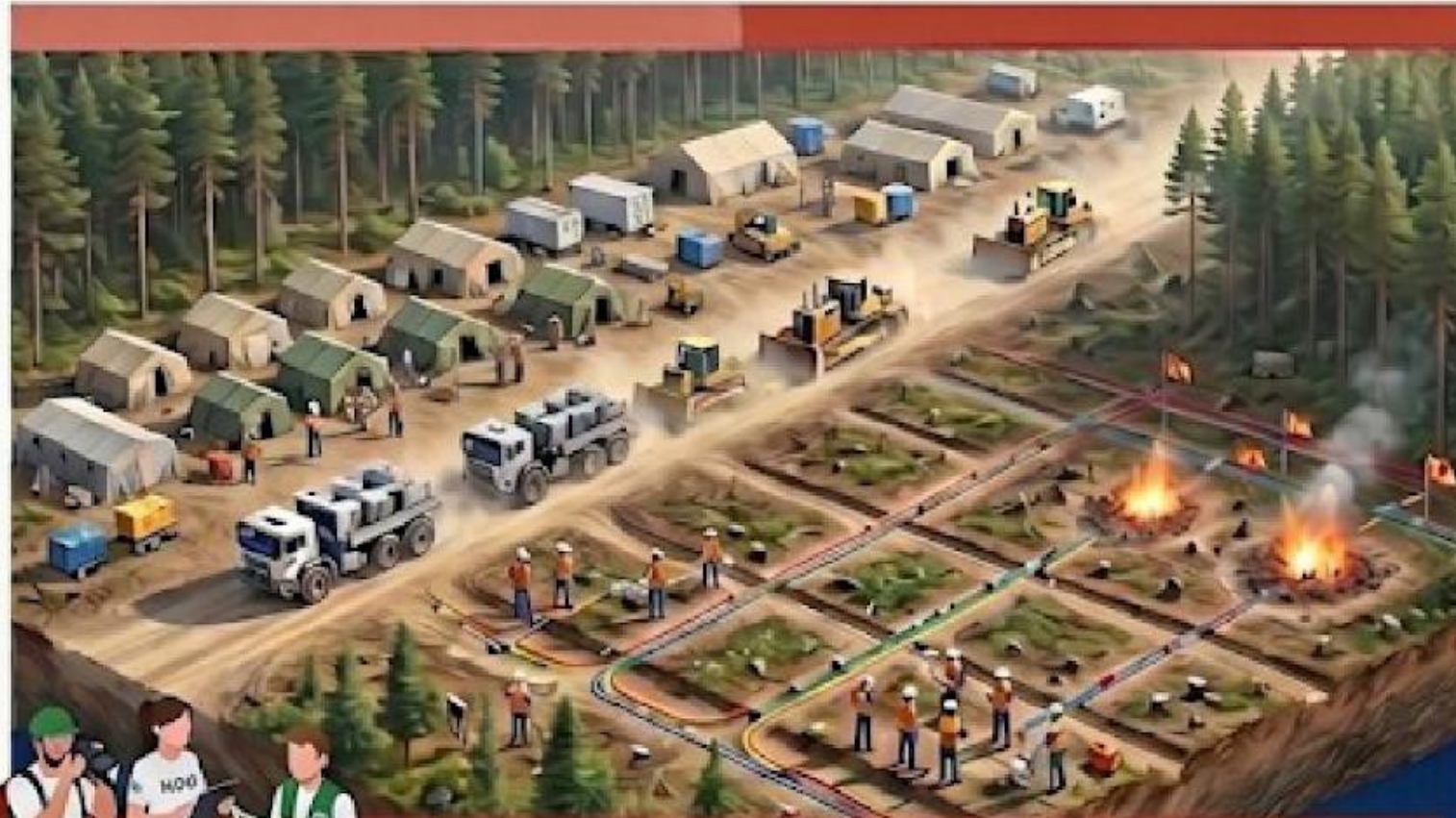


Silent operation that
does not scare away local wildlife.



Total preservation of rural infrastructure and ecosystems.

The Contrast on the Ground



Indirect or controlled observations by the seismic company; NGOs are controlled.



Organizations (NGOs, Environmentalists) can observe directly on the site.



Eliminates the need to deforest seismic lines.



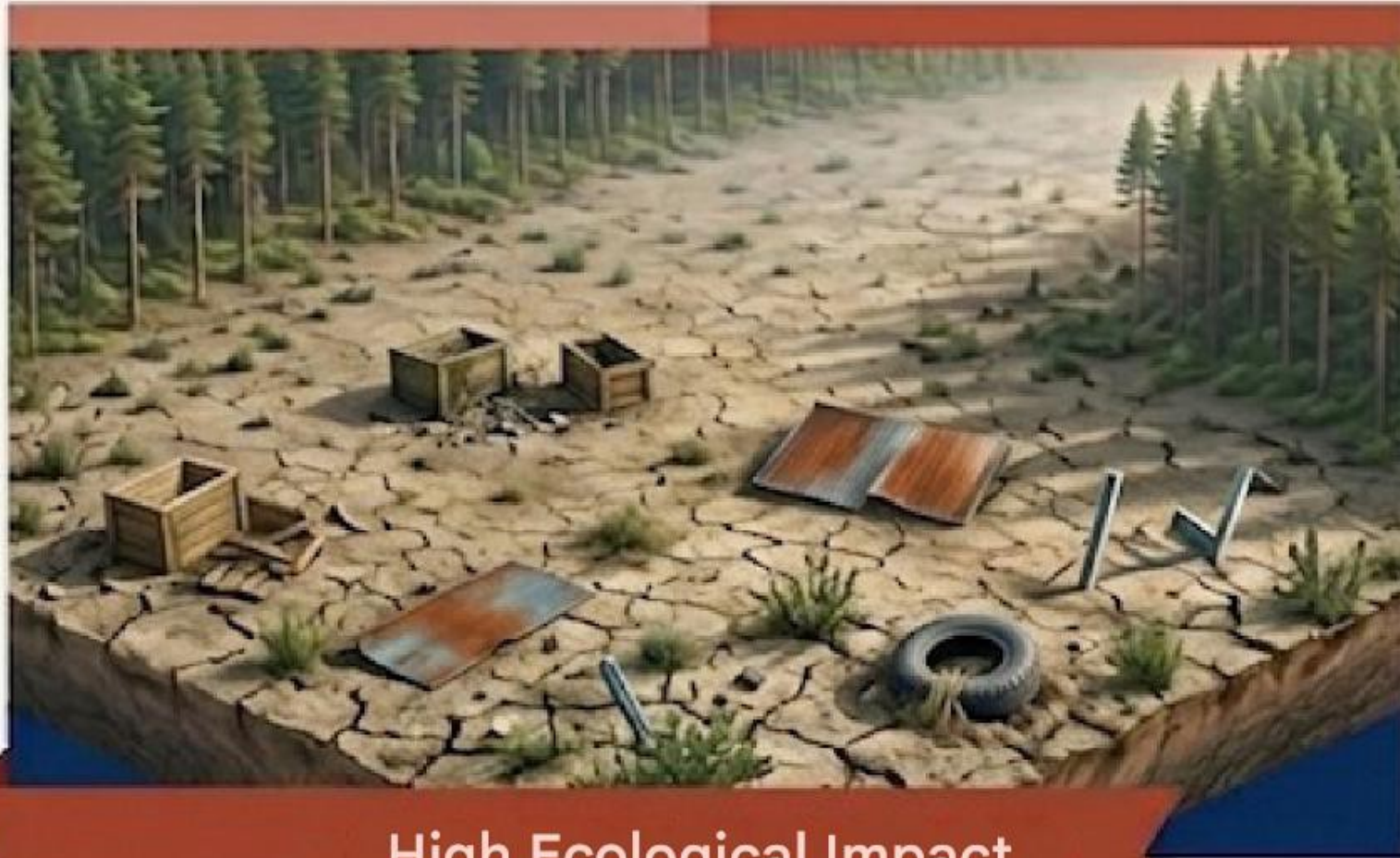
Silent operation that does not scare away local wildlife.



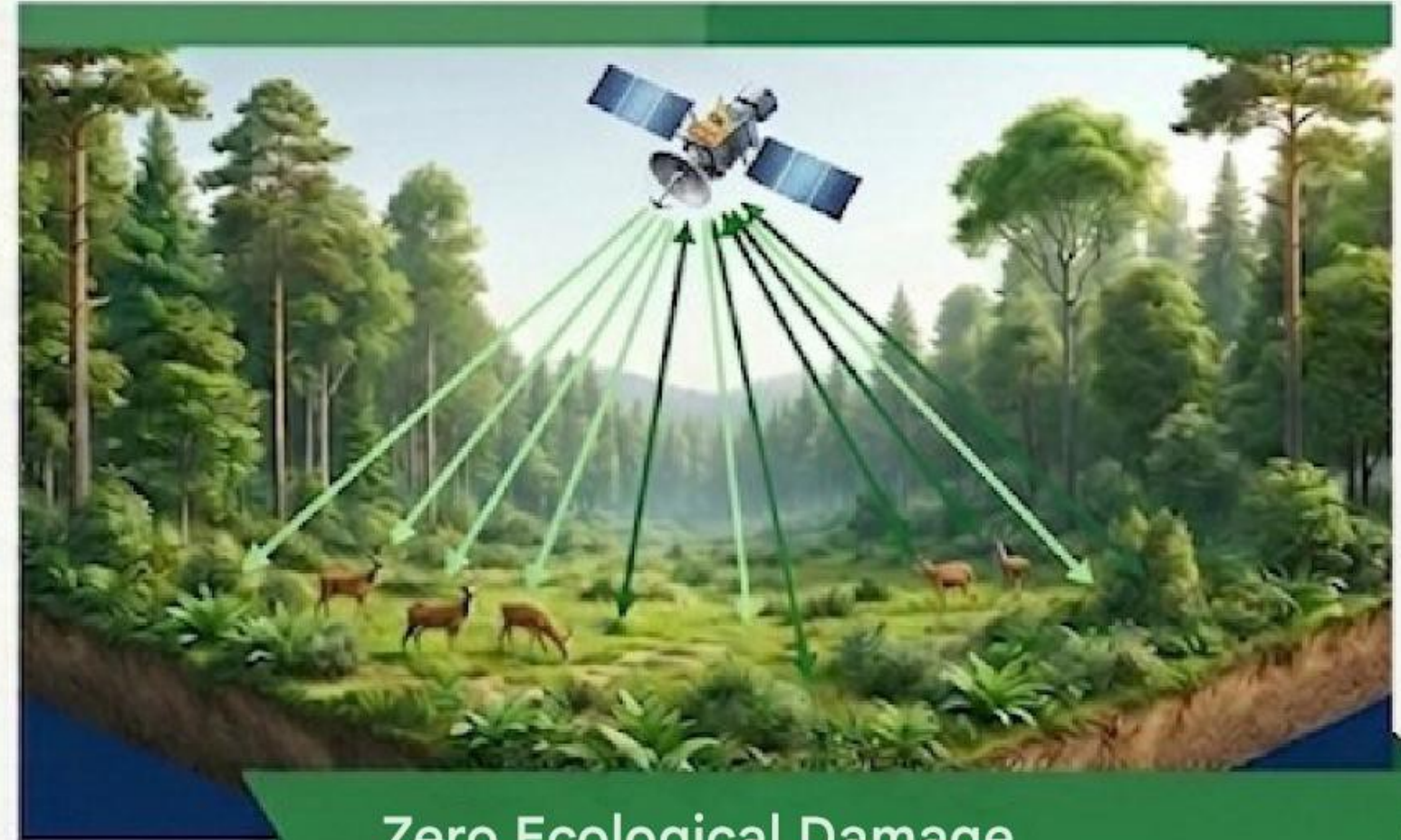
Total preservation of rural infrastructure and ecosystems.

The Contrast on the Ground

4-Phase of area abandonment before returning to zero state.



High Ecological Impact



Zero Ecological Damage



Eliminates the need to deforest seismic lines.



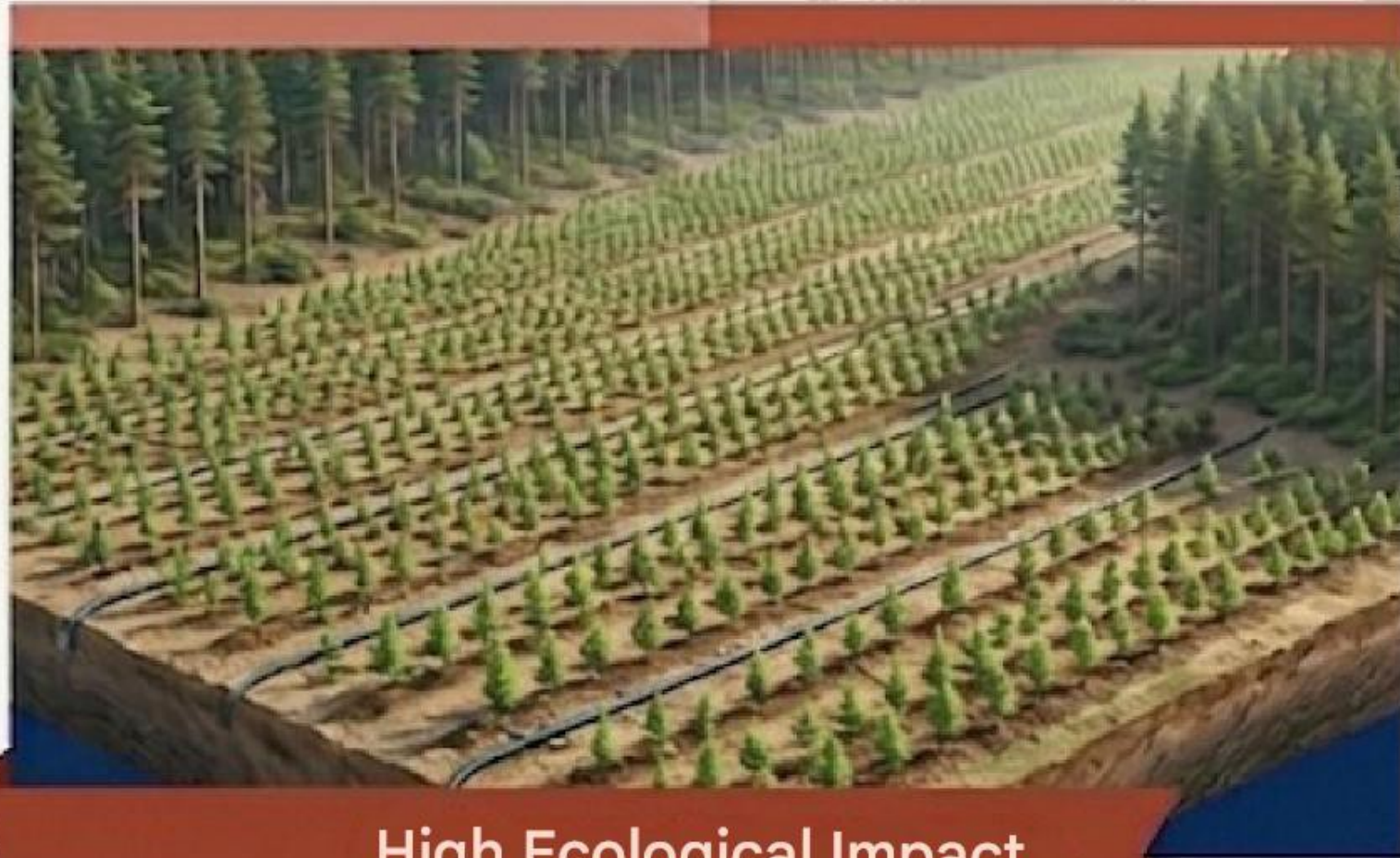
Silent operation that does not scare away local wildlife.



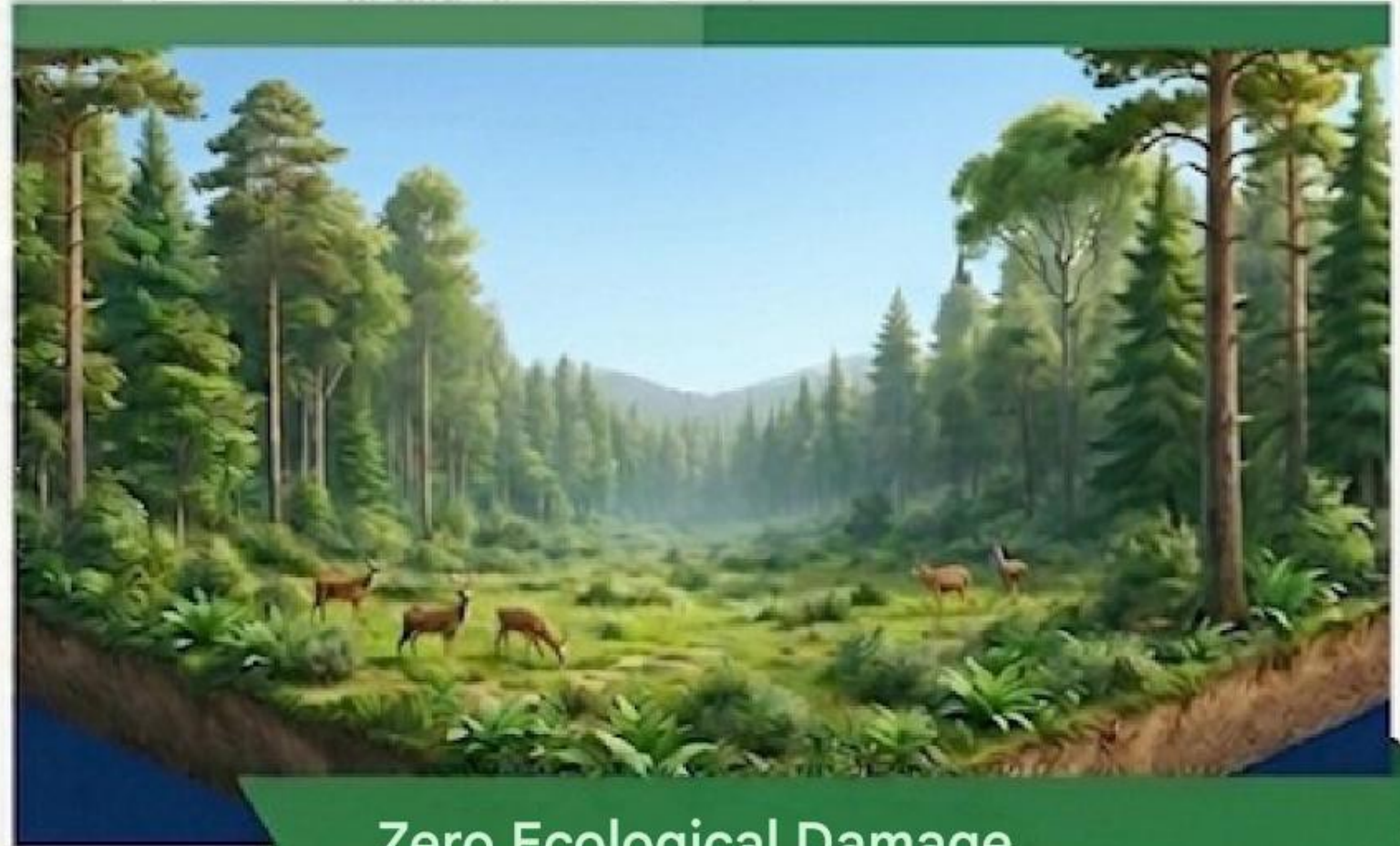
Total preservation of rural infrastructure and ecosystems.

The Contrast on the Ground

5-Phase Restoration through Tree Planting



High Ecological Impact



Zero Ecological Damage



Eliminates the need to deforest seismic lines.



Silent operation that
does not scare away local wildlife.



Total preservation of rural infrastructure and ecosystems.

The Contrast on the Ground

6-In the same area, 20 years later, the difference is remarkable, especially **if the 3D seismic study did not yield positive results.**



High Ecological Impact



Zero Ecological Damage



Eliminates the need to deforest seismic lines.



Silent operation that does not scare away local wildlife.



Total preservation of rural infrastructure and ecosystems.



SOVEREIGNTY AND RELATIONSHIP WITH NGOs IN RSS-NMR

Detailed evaluation of the civil interaction protocol, distributive accreditation, and Gwondoil's role in the Blikal Bloc.

RSS-NMR: The New Paradigm of Sustainable Exploration

RSS-NMR technology represents a paradigm shift compared to invasive conventional seismics. While the traditional method uses explosives and heavy machinery, RSS-NMR operates remotely, without emissions, and with molecular precision to protect the environment and water resources.



ENVIRONMENTAL IMPACT COMPARISON

From physical invasion to remote technology.

Classical seismics requires heavy machinery.



High ecological impact
Causes deforestation, excessive noise, and shock waves from explosives

RSS-NMR has no human presence on the ground.



Zero damage to the local ecosystem.
Eliminates deforestation, noise, and shockwaves from explosives.



SOCIAL MANAGEMENT AND RELATIONSHIP WITH NGOs



Social license based on transparent data.
Offers scientific certainty to communities regarding the security of their water resources.



Neutralization of conflicts with NGOs.

Dismantles blocking arguments through empirical evidence on the isolation of geological layers.



Drastic reduction in compensation for damages.
By not using heavy machinery, damage to crops and rural infrastructure is avoided.

ENVIRONMENTAL ASPECT	CLASSIC SEISMICS	RSS-NMR
GLOBAL IMPACT	High ecological impact	Zero ecological damage
WASTE AND EMISSIONS	Fuels and chemicals	Zero emissions and waste
ACCESSIBILITY	Limited in protected areas	Fully viable in sensitive areas



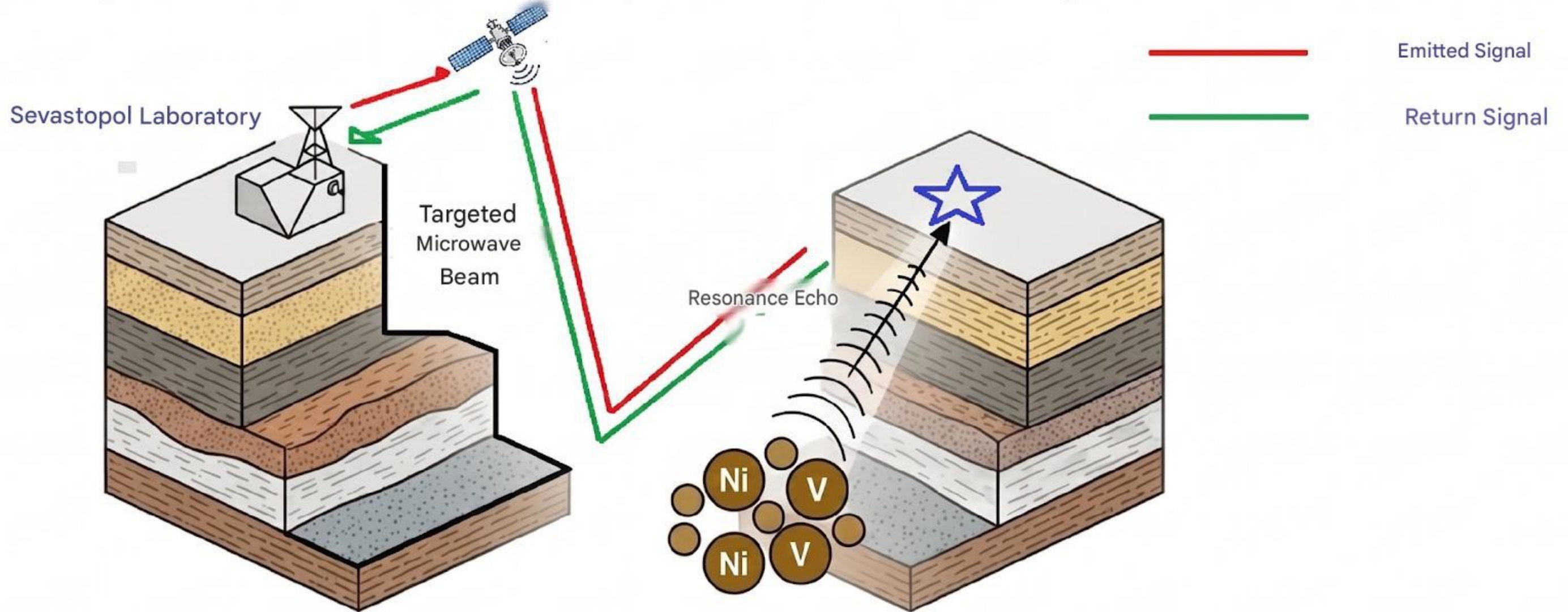
Risk to aquifers
Potential for accidental contamination during drilling.



Surgical protection of aquifers.
The system detects fluids at the molecular level to prevent accidental contamination during drilling.

The Physics of the Poisk Complex

The system doesn't look for rock shapes; it listens for atomic signatures.



1. GENERATE

A surface microwave generator fires a gigahertz frequency signal modulated with the resonant spectra of specific reference elements.

2. TARGET

The signal penetrates up to 7000 m, searching for reference atoms characteristic of specific hydrocarbons (nickel, vanadium, carbon, sulfur).

3. RESONATE

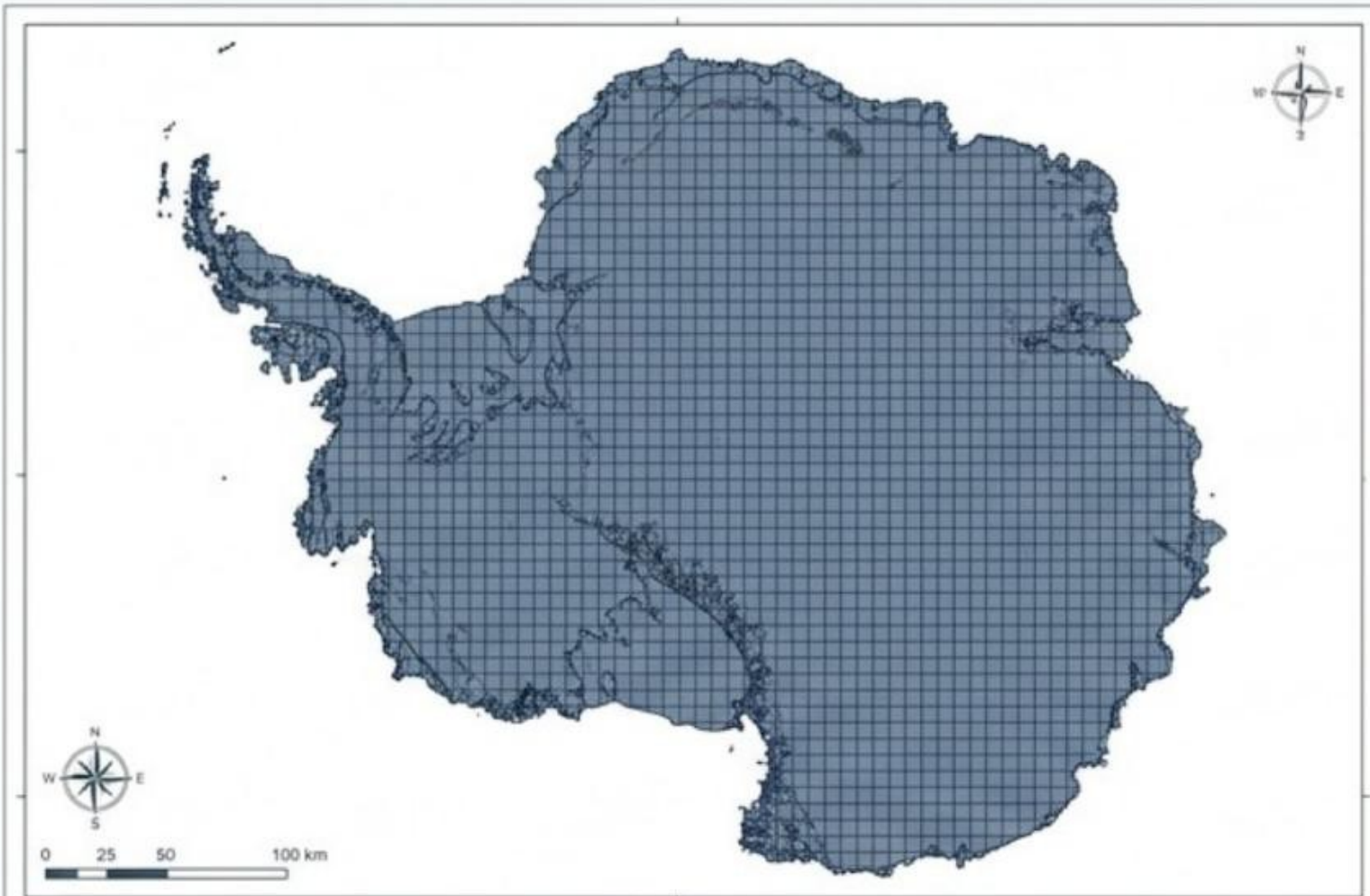
When the wave reaches the exact reference atoms, they achieve nuclear magnetic resonance (nmr), creating a distinctive electromagnetic echo.

4. RECORD

The highly sensitive surface receiver records the amplitude of the return signal, confirming the fluid type.

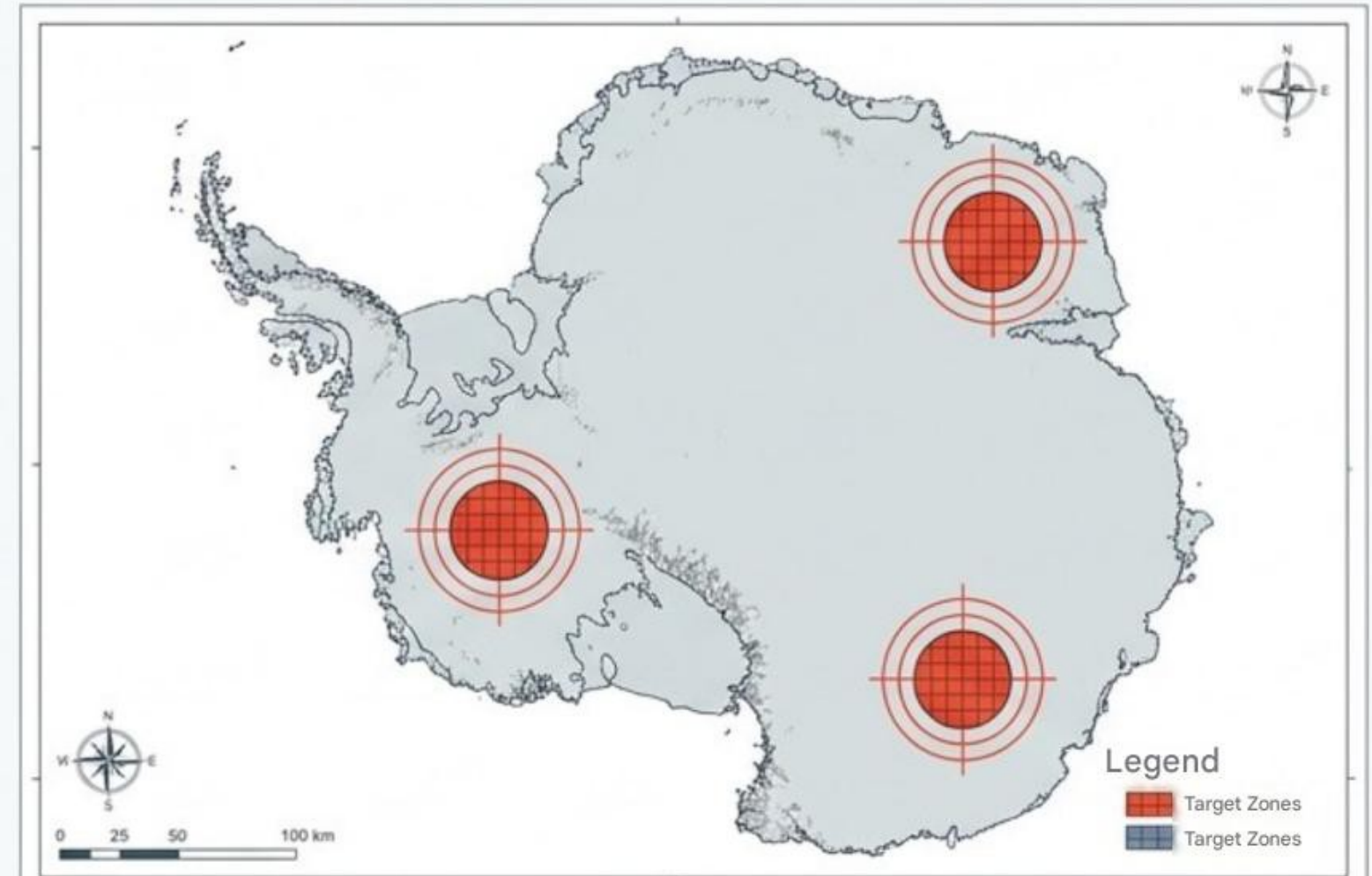
Everything Everywhere vs. Targeted Intelligence

Step 1 (The Past): Systematic Seismic



100% surface coverage.
Global scale, high costs, long lead times.
High geological risk spread throughout the area.

Step 2 (The Future): Targeted Seismic



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

Transforming seismic vibration from a blind constraint into a high-cost surgical strike

Water Security: From the "Black Box" to Total Transparency



The Historical Fear

Projects face extreme resistance due to the fear of contamination or loss of local aquifers (the "black box" of the subsurface).

The NMR Solution

NMR detects and identifies water, oil, and gas directly by their molecular properties before drilling.

The Social Outcome

Water protection is proven scientifically, not with corporate promises. By mapping with surgical precision, blind drilling disappears, and the trust of communities and farmers is built on hard data.

The Social License Cycle



PROACTIVITY MATRIX BETWEEN NGOs AND INSTITUTIONS OF THE PARAGUAYAN STATE SUCH AS PETROPAR

Blockade Argument (NGO)	Scientific Countermeasure (RSS-NMR)	Strategic Result
Local aquifers will be contaminated or dried up.	NMR maps aquifers with molecular precision, ensuring the isolation of geological layers.	<p>[DISASSEMBLED]</p> <p>The argument loses technical and scientific support.</p>
Vibration and explosives damage houses and scare away wildlife.	Replacement of high-energy seismic sources with remote resonance technology.	<p>[MITIGATED]</p> <p>Real and verifiable reduction of the physical impact on the territory.</p>
The project hides information about the subsoil.	Generation of highly visual and understandable fluid maps for the general public.	<p>[NEUTRALIZED]</p> <p>Transparent socialization that reduces the base of popular support for the blockade</p>

Changement de cap : de la validation défensive à la validation proactive

Preuves empiriques indéniables

Devant les tribunaux ou les ministères, l'entreprise présente des études d'imagerie par résonance magnétique (IRM) qui démontrent la sécurité du projet. Les données scientifiques de la RMN ont plus de poids que les discours.

Inclusion technocratique

Des experts techniques des ONG elles-mêmes sont invités à examiner les données du RMN sur la préservation de l'eau et l'impact zéro.

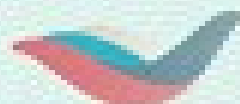
Validation et effondrement du bloc

Lorsque l'adversaire technique ne peut réfuter la technologie qui démontre son innocuité, le blocus devient politiquement et socialement intenable.

Risque éliminé. Certitude garantie.

L'adoption de la technologie RSS-RMN transforme l'exploitation d'une vulnérabilité juridique et en matière de relations publiques en un avantage concurrentiel irréfutable.

En remplaçant l'incertitude par des preuves moléculaires et la force physique par une précision chirurgicale, nous assurons la viabilité à long terme des projets énergétiques et miniers les plus critiques du pays.



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Зарегистрирована в Едином реестре зарегистрированных систем
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Reg. № РОСС RU.11885.04P34P от 24 мая 2017 г.

CERTIFICATE OF CONFORMITY СЕРТИФИКАТ СООТВЕТСТВИЯ

№ РОСС.000647

Valid from 20.10.2025 to 05.10.2028

Срок действия с по

Applicant/Manufacturer: Poisk Group LLC, 295640, Russia, Sevastopol,
st. Kristalovskaya, 143

Заявитель/Производитель: ООО «ГРУППА ПОИСК», 295640, Россия, Севастополь,
ул. Хрустальная, д. 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 explanation
and field geophysical equipment of the Poisk complex (EACH of the GU 941849106)

Продукт: Методика подсчета прогнозируемых запасов руд в глубинно залегающих залежах, с
использованием параметров рудных тел, полученных с помощью дистанционных
геоспациальных методов геологического и полевой геофизической аппаратуры комплекса
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Certificate is issued on the basis of Declaration of conformity company Poisk Group LLC
on the Reliability of the voluntary certification system "Made in Russia" dated 07.10.2025 № 1/05.

Сертификат выдан на основании Декларации о соответствии компании
ООО «ГРУППА ПОИСК» № 1/05 от 07.10.2025 по направлению «Надежность» системы
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Made in Russia VCS Holder RussiaExpert Center JSC
125050, Moscow, Priblennykh Kuznetsov st. 14/15
Коллекторская улица 14/15 кв. 15 м. 14/15
vcs@mail.ru vcs@russiaexpert.ru
tel: +7 495 9507-47-47

Департамент СЭС «Сделано в России» АО «Российский экспортный центр»
125050, Москва, Приблennykh Kuznetsov st. 14/15
Поселок № 10 Краснопресненская Станция м.п. 105
крас.экспорт@rosetc.ru info@rosetc.ru
tel: +7 495 9507-47-47

Vice President
Вице-президент



A.V. Solodov
А.В. Солодов

003615

СИСТЕМА ДОБРОВОЛЬНОЙ СЕРТИФИКАЦИИ «СДЕЛАНО В РОССИИ»
Reg. № РОСС RU.11885.04P34P от 24.05.2017 г.



СЕРТИФИКАТ СООТВЕТСТВИЯ

№ РОСС RU.11885.04P34P

Срок действия с 20.10.2025 по 05.10.2028

№ 0057630

ОБЪЕКТ ПО СЕРТИФИКАЦИИ: ПОИСК ГРУППА КОМПАНИЙ

Сфера действия сертификата: ПОИСК ГРУППА КОМПАНИЙ, адрес: 125050, РОССИЯ, Москва, Пиблeнныe Кузнeтeвскaя ул., д. 14/15, кв. 15, м.п. 105, телефон: +7 495 9507 4747, сайт: www.poiskgroup.ru

ПРОДУКТ: Методика подсчета прогнозируемых запасов руд в глубинно залегающих залежах, с
использованием параметров рудных тел, полученных с помощью дистанционных
геоспациальных методов геологического и полевой геофизической аппаратуры комплекса
«Поиск»

код ТН ВЭД
941849106

СООТВЕТСТВИЕ ТРЕБОВАНИЯМ НОРМАТИВНЫХ ДОКУМЕНТОВ

код ТН ВЭД

ИЗГОТОВИТЕЛЬ: Общество с ограниченной ответственностью «Группа Поиск», ОГРН: 1105004000000, ИНН: 5007000000, адрес: 295640, РОССИЯ, город Севастополь, ул. Хрустальная, д. 143, телефон: +7 495 9507 4747, сайт: www.poiskgroup.ru

СЕРТИФИКАТ ВЫДАН: Общество с ограниченной ответственностью «Группа Поиск», ОГРН: 1105004000000, ИНН: 5007000000, адрес: 295640, РОССИЯ, город Севастополь, ул. Хрустальная, д. 143, телефон: +7 495 9507 4747, сайт: www.poiskgroup.ru

НА ИСПОЛНЕНИИ

Принимая во внимание № 0057630 от 20.10.2025 года, выданный Федеральным агентством по техническому регулированию и метрологии (РОСС RU.11885.04P34P)

ДОПОЛНИТЕЛЬНЫЕ СВЕДЕНИЯ

Срок действия: 12



Руководитель центра

Иванов

Сертификат выдан в соответствии с требованиями системы добровольной сертификации



И.И. Фомин

руководитель центра

И.И. Иванов

руководитель центра



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Michel L. Friedman-Matarese

(Destom LH 67/11)

-  Mobile: +591-71696657
-  WhatsApp: +591-71696657
-  Email: michel@geo-nmr.net
-  In Charge: Africa & Américas
-  Speaker: FR-UK-ES-BR/PT
-  GMT: -04h
-  Base: Bolivia, Santa Cruz

Kotelianets Igor

Director of LLC "Poisk Group"

-  Tel: +78692456491
-  WhatsApp: +79787155212
-  Email: igor@geo-nmr.net
-  In Charge: World
-  Speaker: RU-UK
-  GMT: +03h
-  Base: Sevastopol, Rusia

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.

THANKS YOU

