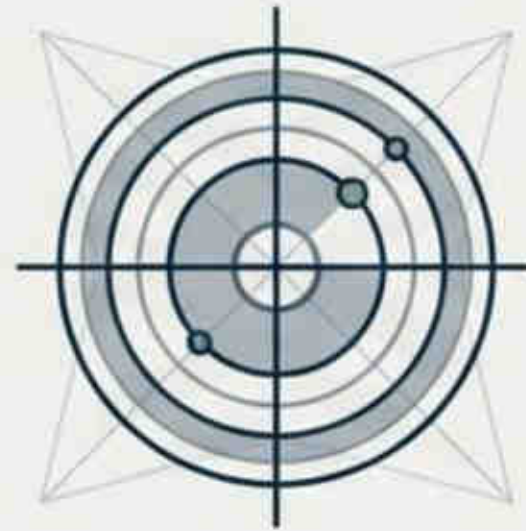


Works done before 2019

Stage 1 laboratory Sevastopol - Stage 2 verification on fields



**WARNING**

**MINE SITE**

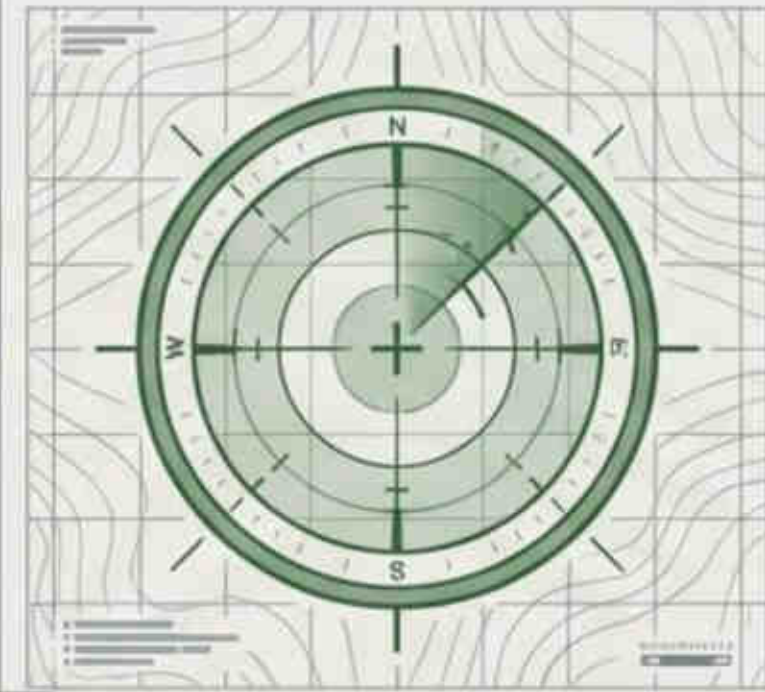


# PROJECT POISK: REMOTE GEOHOLOGRAPHIC EXPLORATION

Official State Validation of a High-Precision  
Alternative to Traditional Uranium Drilling

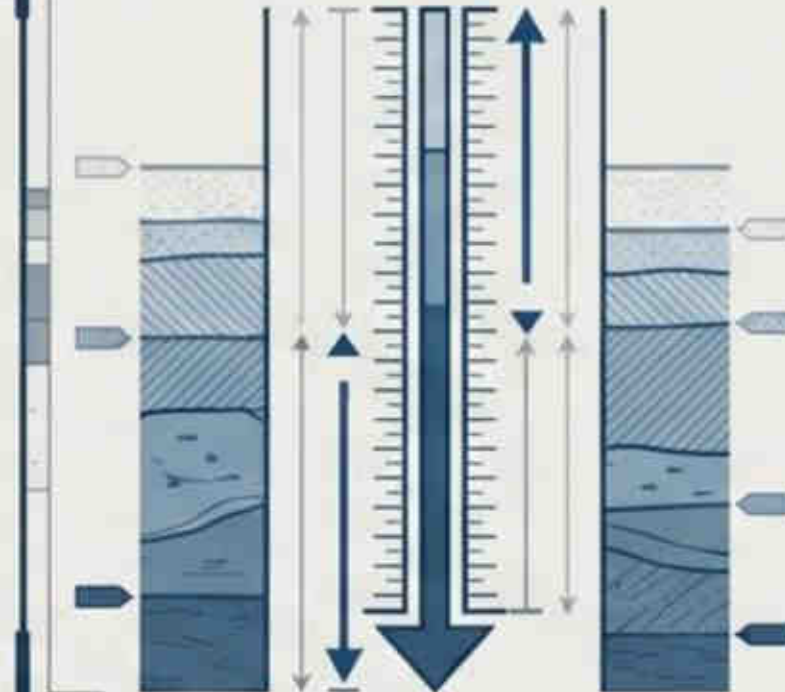
**TECHNICAL BRIEFING & EMPIRICAL CAPABILITIES REPORT**

# EXECUTIVE SUMMARY: VALIDATED CAPABILITIES



**>90%  
SPATIAL  
CONVERGENCE**

Empirically matched  
physical drilling results.



**2,000  
METERS**

Deep-earth penetration  
without physical excavation.



**RADICAL  
COST  
REDUCTION**

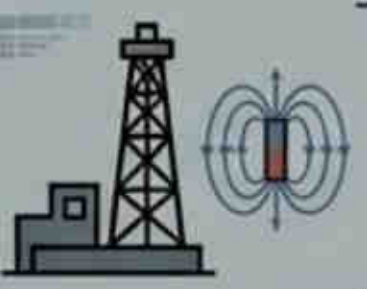
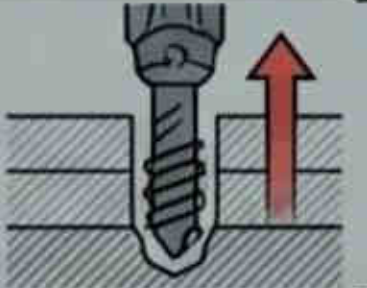
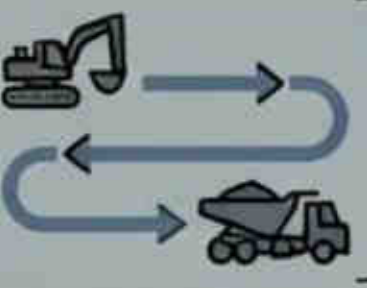

Multiple-fold decrease in  
exploration costs and  
required drilling volumes.


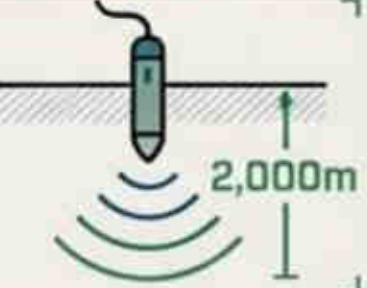
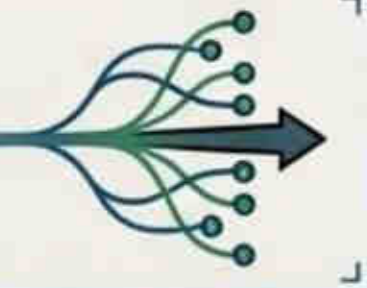



**STATE  
CERTIFIED**

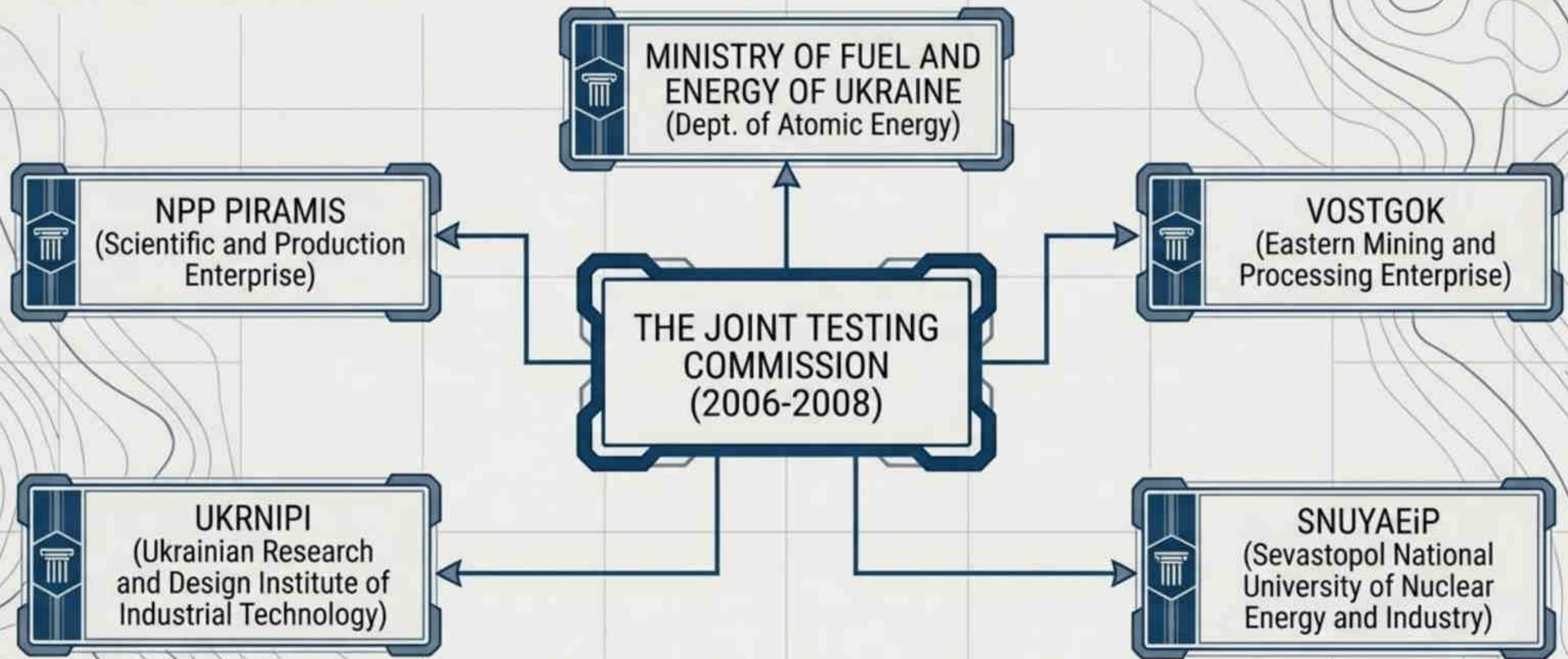
Rigorously tested by the  
Ministry of Fuel and Energy  
and VostGOK.

# TECHNOLOGICAL EVOLUTION: OVERCOMING INDUSTRY LIMITATIONS

TRADITIONAL EXPLORATION	
	<b>METHODOLOGY</b> Magnetic, Gamma, Exploratory Drilling (Physical and localized)
	<b>DEPTH LIMITS</b> Constrained by drill rig capacity and exponential cost increases at depth
	<b>SPEED &amp; SCOPE</b> Slow, linear progression reliant on physical infrastructure
	<b>FINANCIAL PROFILE</b> High capital expenditure, high marginal cost per meter drilled

THE POISK COMPLEX	
	<b>METHODOLOGY</b> Remote Geohology (Non-invasive spatial scanning)
	<b>DEPTH LIMITS</b> Uniform sensing capability up to 2,000m
	<b>SPEED &amp; SCOPE</b> Rapid operational search and broad contour delineation
	<b>FINANCIAL PROFILE</b> Fractional baseline cost, zero marginal cost for physical excavation

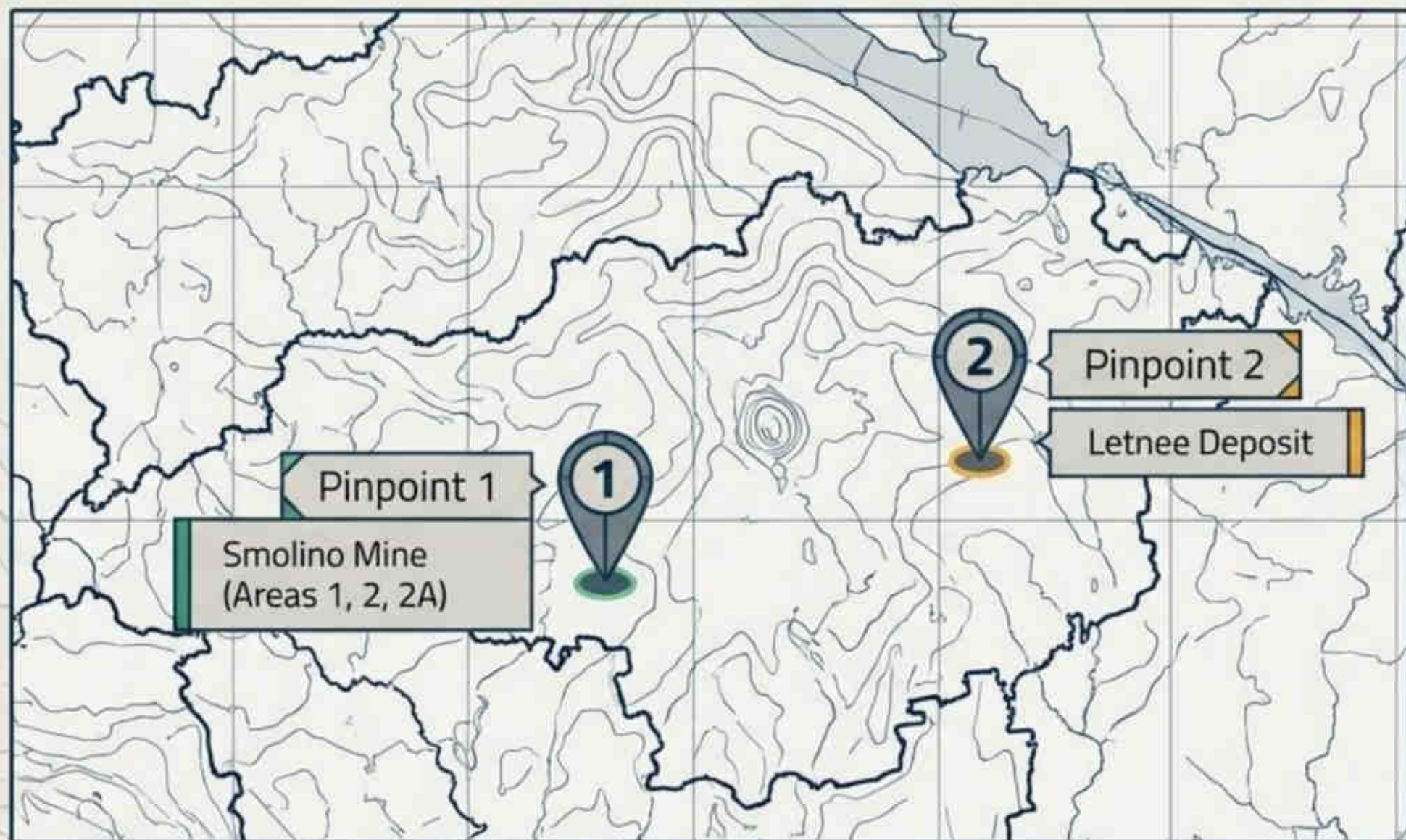
# INSTITUTIONAL CONSENSUS: THE TESTING MANDATE



**A multi-agency mandate:** Testing protocols were jointly designed, executed, and validated by Ukraine's top geological, academic, and state energy institutions.



# The 2008 Crucible: Smolino & Letnee Trials



Following the 2006 directive, a comprehensive comparative trial was launched in October 2008. The objective: Pit the remote Poisk complex directly against traditional geological and geophysical methods across known and unknown subterranean environments.

УТВЕРЖАЮ  
Генеральный директор ГИП «ВостГЭК»  
В.М. Жыса  
2008 г.

УТВЕРЖАЮ  
С.Б. Смирнов  
2008 г.

АКТ  
результатов сравнительных испытаний аппаратов геологогеографического комплекса «Поиск» по дистанционному поиску и определению границ аномальных уранорудных тел на Смолинской шахте и месторождении «Летнее»  
2008 г. г. Смоленно

Комиссия, в составе:  
Председатель комиссии:  
- Браверное В.В. (ГИП «ВостГЭК»),  
члены комиссии:  
- Аамсова А.М. (ИПЦ РХТ Атомно-промышленного комплекса Минпромэнерго Урала),  
- г.т.-к.п. Филиппова Е.М.,  
- а.т.п. Ковалева Н.Н. (СНУР/ИИТ),  
- специалист Гуса В.А. (ИПЦ «Испраме»),  
- главного геолога Смирнова В.В. (ГИП «ВостГЭК»),  
- а.т.п. Пухляченко В.В. (ИПЦ ГИП «ВостГЭК»),  
- а.т.п. Кошова Ю.Н. (УралПИИО).

составили настоящий акт результатов сравнительных испытаний аппаратуры геологогеографического комплекса «Поиск» по результатам съемки 2-4 рядов по дистанционному поиску и определению границ уранорудных тел на известном участии участка уранорудного месторождения в Белгородской области (участок № 2), участках № 1, 2, 2А, расположенных на флангах (1,2) и внутри шахтного поля (2А) Смолинской шахты, и месторождения «Летнее».

Условия выполнения испытаний:  
Перед началом испытаний аппаратуры дистанционного геологогеографического комплекса «Поиск» (разработанный СНУР/ИИТ и ИПЦ «Испраме») была проведена подготовка к проведению измерений на обрешотках проб урановой руды и аллювиальных руд, отобранных с различных глубин. Содержание урана в руде составляет от 0,080 Тз до 0,100 Тз. В руде отсутствуют другие элементы урановой руды содержание урана составляет < 0,000%.

Концентрация урана и пробов определялась специализированной ИИИП ГИП «ВостГЭК» специалистами методом (допускается ошибка ±3 Тз). Проверка аппаратуры комплекса «Поиск» перед началом работ проводилась в Североуральском государственном центре геологии, сертификации и стандартизации.

Определение границ аномальных уранорудных тел и концентрации урана в них осуществлял участок № 2 (Кировградская область), участок № 2А (Смолинская

# Strict Baseline Calibration Controls

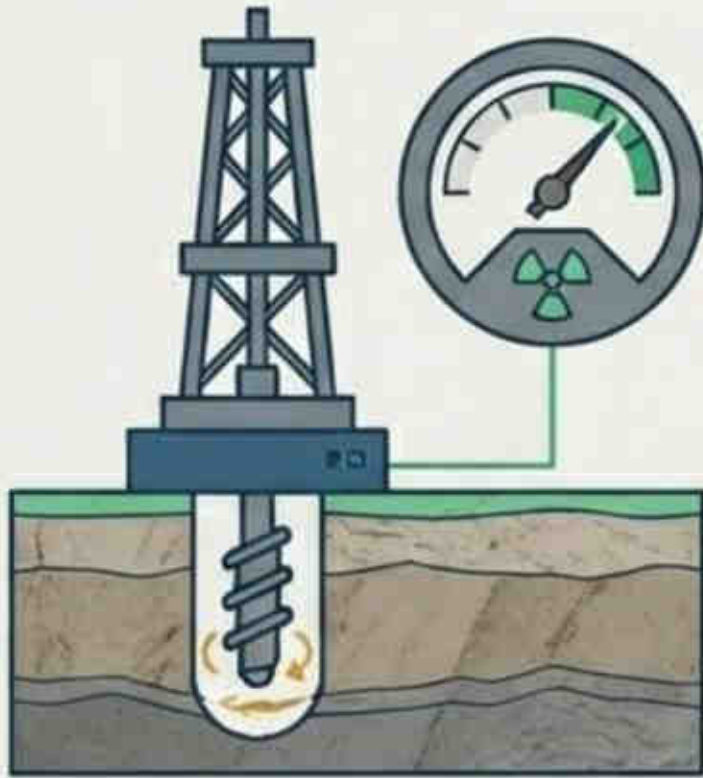


Baseline concentrations established by VostGOK Central Research Laboratory via chemical methods. Maximum allowable margin of error strictly capped at <5%.

**Note:** Instrumentation certified by the Sevastopol State Center for Metrology and Standardization prior to deployment.

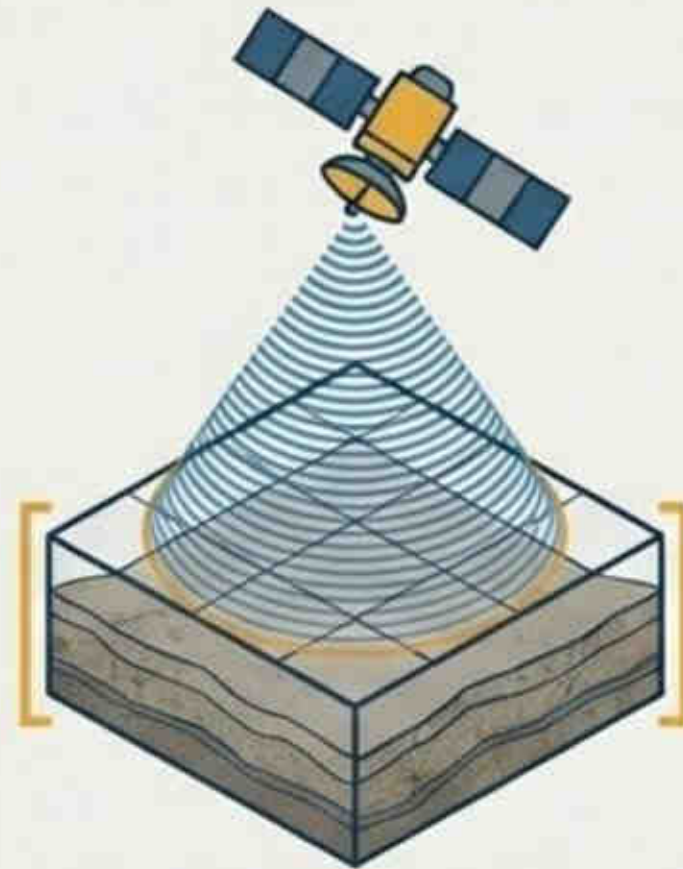
# The Verification Matrix: Protocol Execution

## Step 1: Baseline Establishment



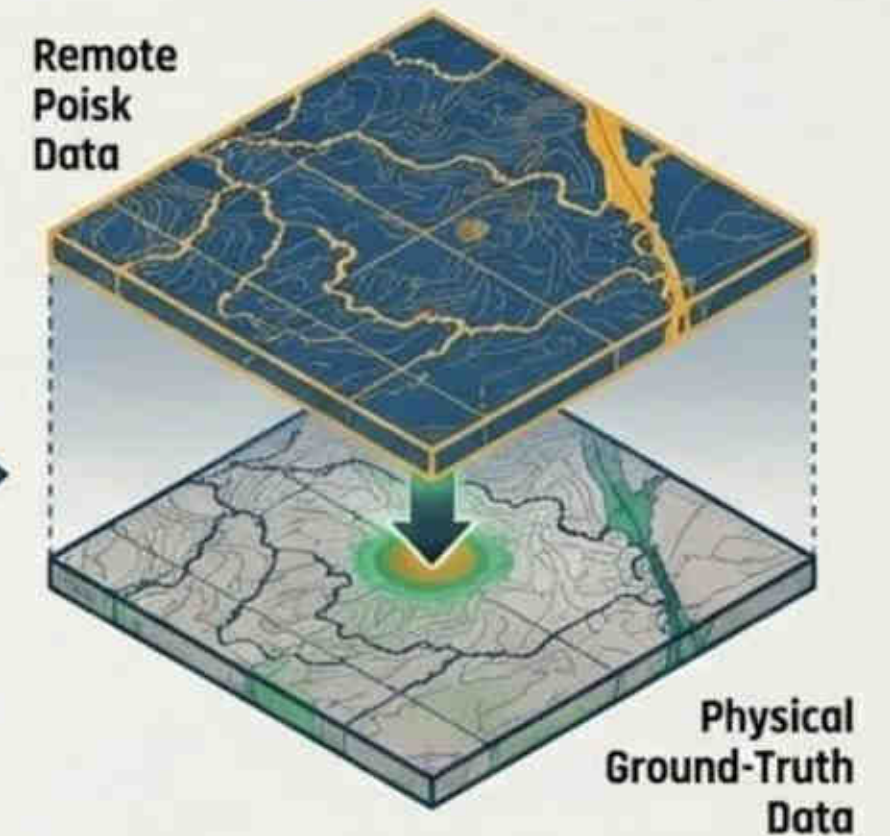
Mapping of Areas 1, 2, and 2A at Smolino using legacy **magnetic** surveying, gamma radiation, and exploratory drilling.

## Step 2: Remote Scanning



Remote geoholographic scan of the **exact same geographical** coordinates, as well as the Letnee deposit and Smolino flanks.

## Step 3: Overlay Analysis



Direct comparison of the remote Poisk spatial data against the **physical ground-truth data** from the traditional methods.

# Empirical Proof: >90% Spatial Convergence

Traditional  
Drilling Contours

Poisk Remote  
Contours

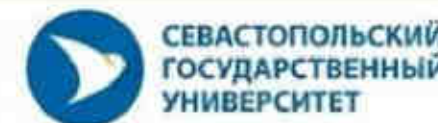
**>90%  
Precision  
Match**

## Smolino Results:

Contours mapped by Poisk across Areas 1, 2, and 2A demonstrated near-perfect alignment with magnetic, gamma, and traditional drilling boundaries.

## Letnee Results:

Depth of occurrence and areal contours at the Letnee deposit virtually identical to known physical data (>90% convergence).



Works done before 2019

Stage 1 laboratory Sevastopol - Stage 2 verification on fields

# Operational Capability Profile

## Rapid Operational Search

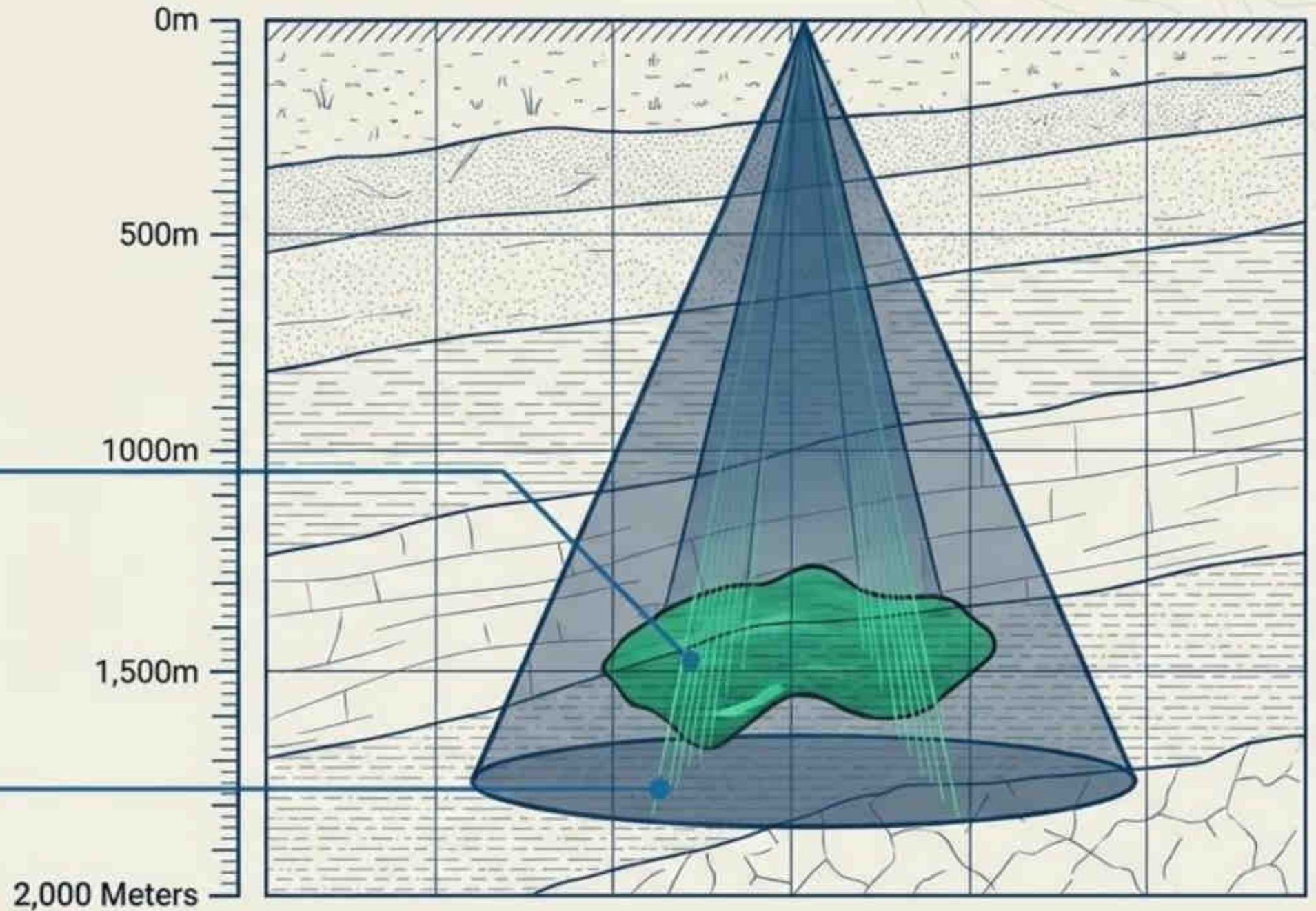
Deployable at a fraction of the time required for establishing physical drill sites.

## Precise Boundary Definition

Capable of determining the exact volumetric contours of uranium ore bodies prior to any physical excavation.

## Deep-Earth Penetration

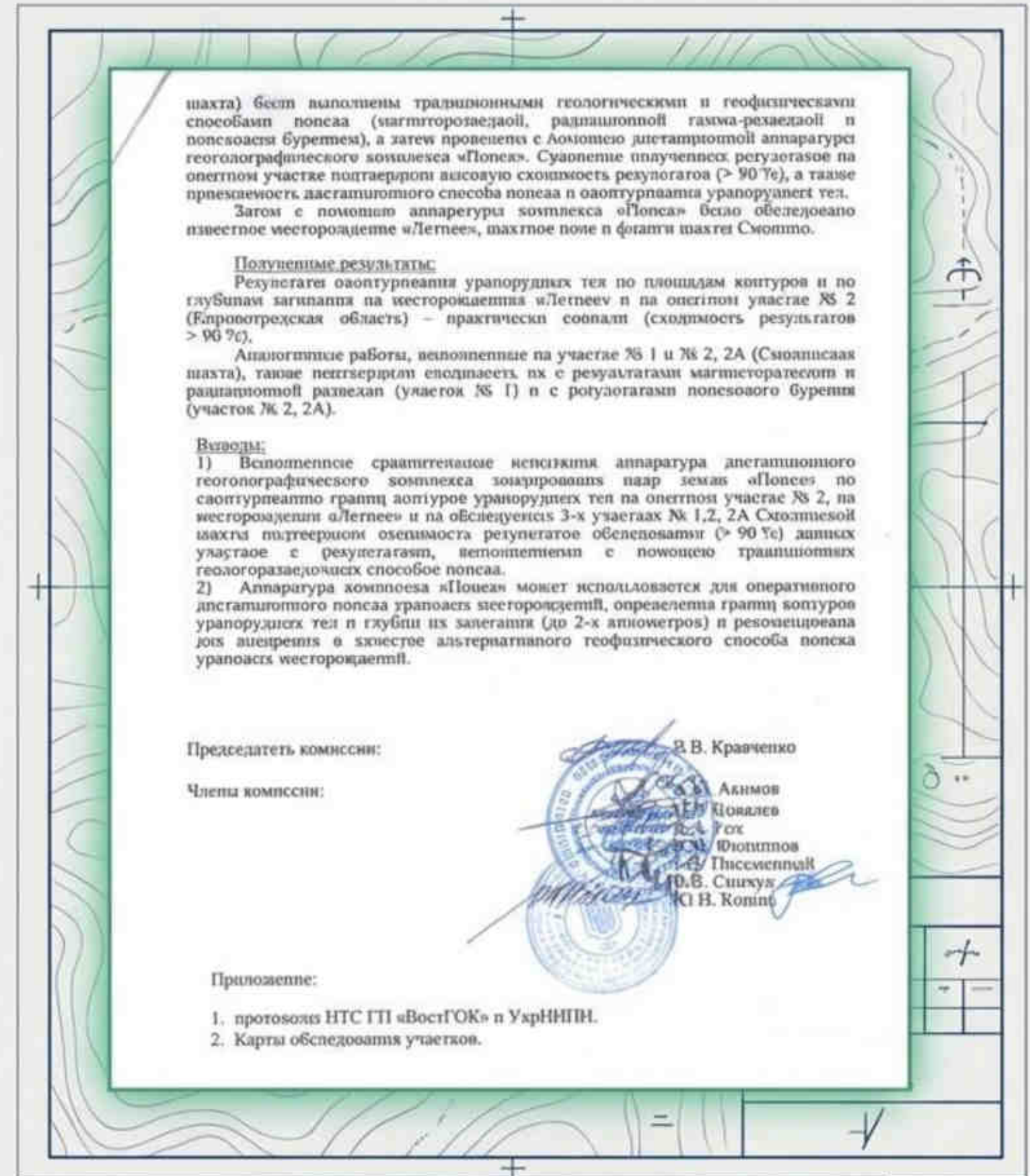
Verified sensing capabilities up to 2.0 kilometers beneath the surface.



# The Final Verdict: State Recommended

- The comparative tests officially confirmed the convergence of survey results (>90%) against traditional exploratory methods.
- The Poisk complex is proven effective for operational search, boundary contouring, and depth determination (up to 2 km).

Officially recommended for implementation as an alternative, highly efficient geophysical method for the discovery of uranium deposits.



Works done before 2019

Stage 1 laboratory Sevastopol - Stage 2 verification on fields

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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.

**⚠ WARNING**

**MINE SITE**



# Contact

**Michel L. Friedman-Matarese**

Móvil / WhatsApp: +591-71696657

Email: [michel@geo-nmr.net](mailto: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](mailto:igor@geo-nmr.net)

Speaker RU-UK

Area : World