



SUBTERRANEAN ANOMALY DETECTION: OPERATION MONTECCHIO MAGGIORE

Remote Nuclear Magnetic Resonance (NMR) &
Drone Photogrammetry Proof of Concept

CLASSIFICATION: Unclassified / Commercial Release

DATE OF COMMENCEMENT: 10/04/2017

REFERENCE REPORT: ATLAS-2017-05

Atlas Projekt D.O.O. | Nova Gorica, Slovenia

Military -Defense

OPERATIONAL PARAMETERS & MISSION CONTEXT



THE OBJECTIVE

Locate and extract deep-buried, high-explosive anomalies dating back to the Second World War.

THE CHALLENGE

Non-invasive detection of deep subterranean industrial casings across a privately owned, historically cultivated land tract without prior disruptive excavation.

THE CATALYST

On April 10, 2017, Atlas Projekt D.O.O. commissioned Gruppo Poisk (representing Sevastopol State University) to deploy an experimental remote Nuclear Magnetic Resonance (NMR) analytical method to map the subsurface threat landscape.

SEARCH PERIMETER GEOLOCATION

T1: 45° 28' 58.00" N | 11° 23' 46.23" E

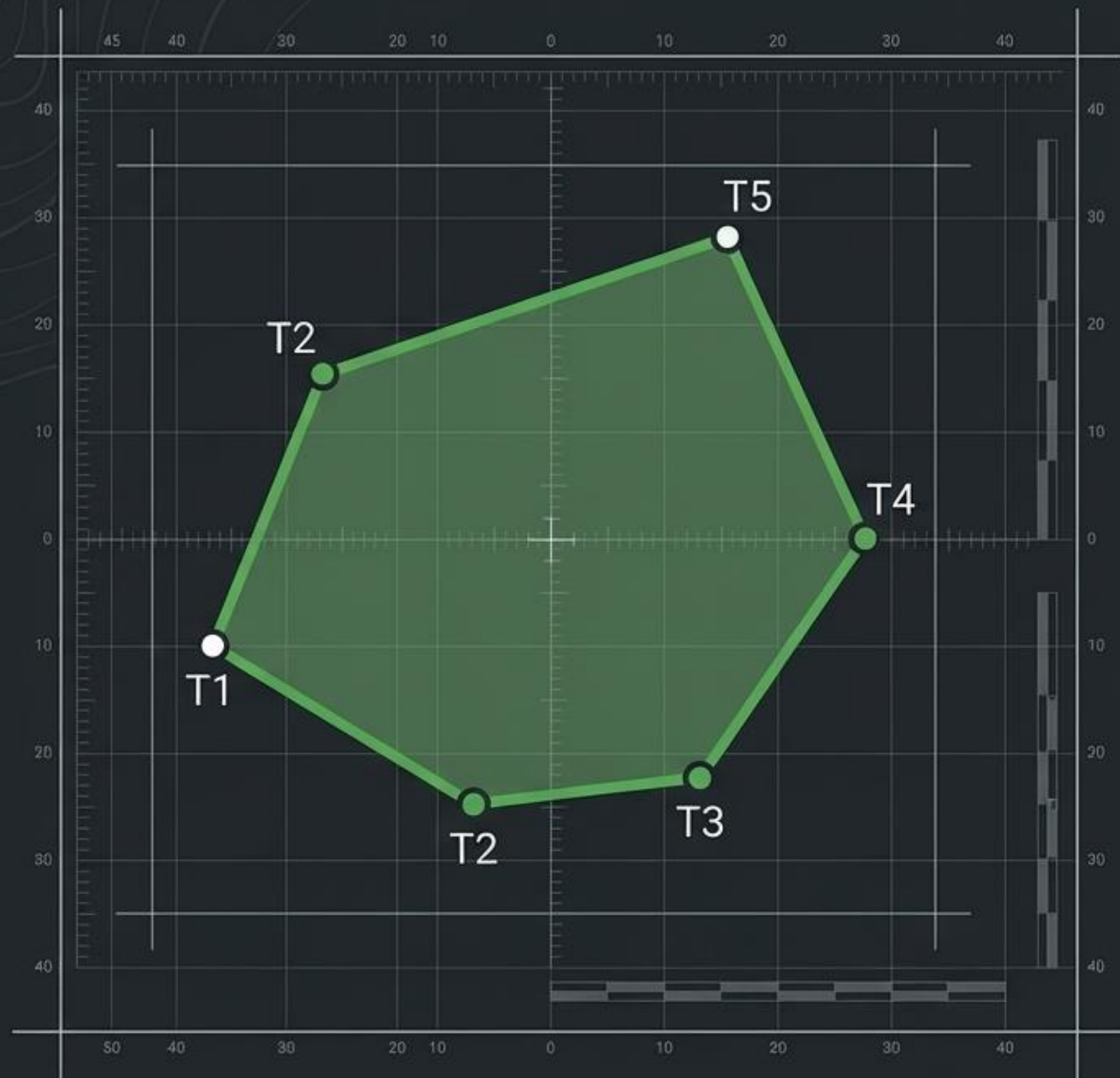
T2: 45° 28' 54.13" N | 11° 23' 45.01" E

T3: 45° 28' 55.59" N | 11° 23' 50.51" E

T4: 45° 29' 01.87" N | 11° 23' 47.37" E

T5: 45° 29' 00.40" N | 11° 23' 41.86" E

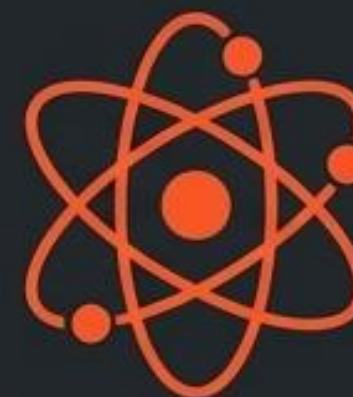
Georeferenced survey boundaries established for aerial photogrammetry capture.



OPERATIONAL DIVISION OF LABOR

ATLAS PROJEKT D.O.O. (DATA ACQUISITION)

GRUPPA POISK (REMOTE ANALYSIS)



Nova Gorica, Slovenia

BASE OF OPERATIONS

Sevastopol State University, Russia

Atlas Drone S900
(Remote Piloted Aerial System)

**PRIMARY HARDWARE
/ ENGINE**

Remote Nuclear Magnetic Resonance
(NMR) Analysis

Analog camera with
georeferencing modules

**SENSOR
CONFIGURATION**

Applied to acquired photographic
matrices

High-resolution aerophototopographic
survey images formulated into
a unified matrix.

**FINAL OUTPUT
DELIVERED**

Target geolocation dossier with
specific subterranean coordinates
and material identification.

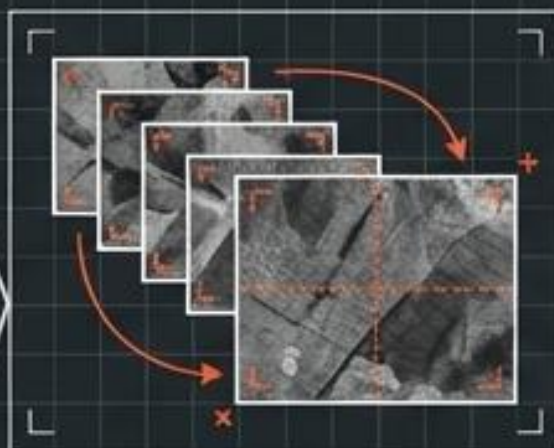
HYBRID DETECTION WORKFLOW



STEP 1: AERIAL TOPOGRAPHY

[ITALY]

Atlas Drone S900 executes a precise flight path over the T1-T5 Montecchio Maggiore bounding box, capturing georeferenced analog imagery.



STEP 2: MATRIX CONSTRUCTION

[SLOVENIA]

Raw imagery is compiled by Atlas Projekt into a continuous, data-rich operational matrix.



STEP 3: REMOTE NMR ANALYSIS

[RUSSIA]

Gruppa Poisk applies remote Nuclear Magnetic Resonance processing to the matrix, isolating specific molecular signatures of subterranean explosives.



STEP 4: GEOLOCATION OUTPUT

[TARGET]

Generation of a finalized coordinate dossier isolating the exact subterranean positions of historical military assets.

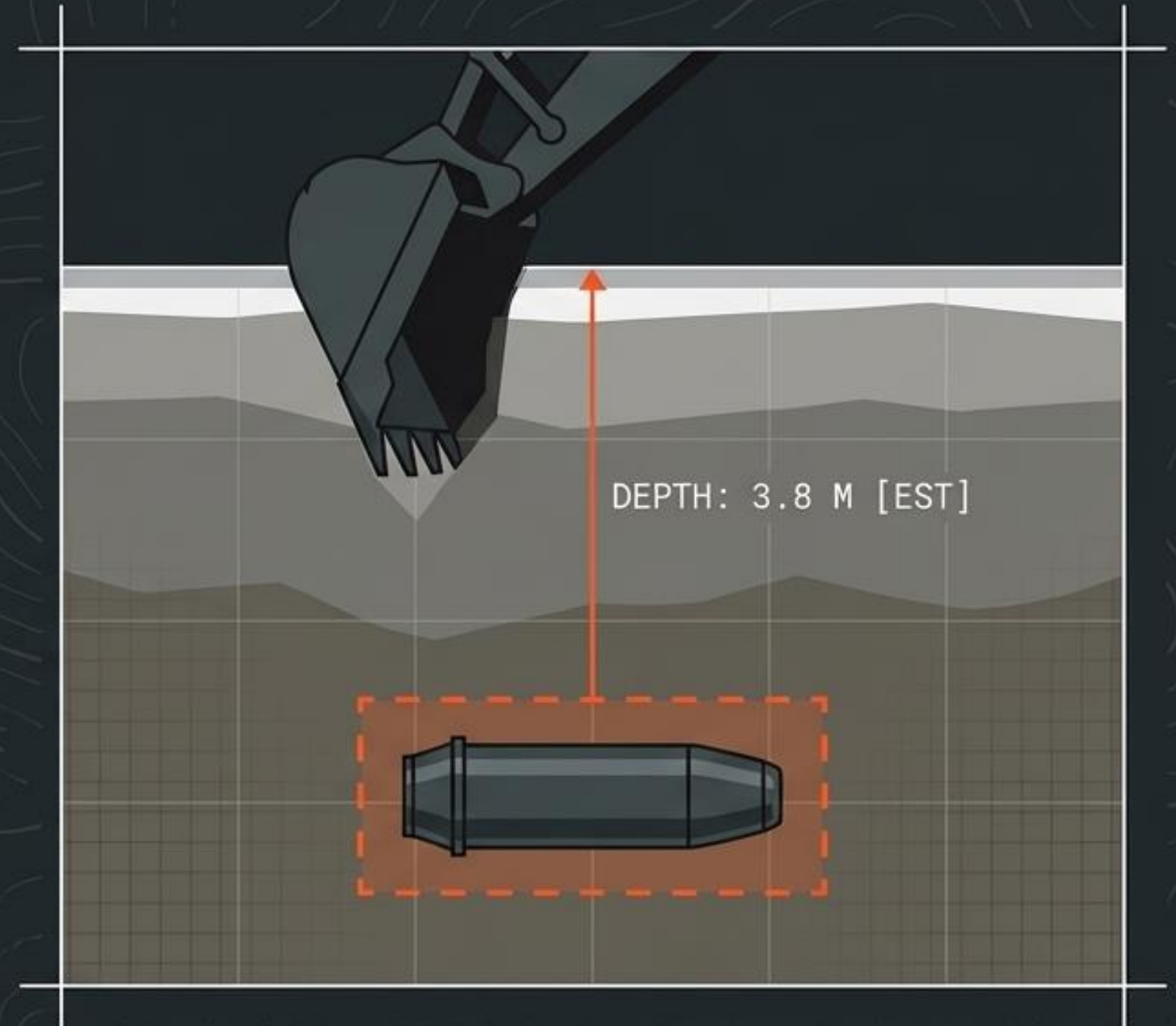
FIELD VERIFICATION: TRANSITION TO PHYSICAL EXCAVATION

Following the remote NMR analysis, the property owners executed exploratory excavations utilizing exclusively the coordinates provided in the Gruppo Poisk dossier.

TARGETS ACQUIRED: Industrial-grade metallic casings identified.

CLASSIFICATION: Unexploded ordnance (UXO) / Military explosive devices.

PROTOCOL TRIGGERED: Due to imminent threat levels, civilian excavation was halted. Target extraction and controlled demolition handed over to specialized armed forces units.



TAKEAWAY: The remote analysis successfully identified deep-buried military assets invisible to the naked eye.

EXCAVATION DATA VALIDATION

Remote NMR Geolocation vs. Physical Excavation Metrics.

Overall Target Location Probability: 80%.



TARGET 1 (G1)	TARGET 2 (U1)	TARGET 3 (G2)
COORDINATE: 45° 28' 56.64" N 11° 23' 48.12" E	COORDINATE: 45° 28' 57.68" N 11° 23' 47.18" E	COORDINATE: 45° 28' 57.91" N 11° 23' 47.72" E
MATERIAL: TNT (Match: YES)	MATERIAL: TNT (Match: YES)	MATERIAL: TNT (Match: YES)
DEPTH: 2.12 meters	DEPTH: 1.98 meters	DEPTH: 1.74 meters
DEVIATION: -0.98 meters South	DEVIATION: +0.80 meters East	DEVIATION: +0.45 meters South

Result of first excavation phase categorized as completely satisfactory, verifying methodology efficacy.

DIAGNOSTIC ANALYSIS OF LOCATION DEVIATIONS

The minor geographic discrepancies (under 1 meter) are not a failure of the NMR sensor, but a reflection of topsoil contamination.

PAST (WWII INITIAL IMPACT)

PRESENT (2017 AGRICULTURAL SHIFT)



1. INITIAL IMPACT

The original kinetic strike of the ordnance scatters explosive residue and metallic particulates into the surrounding upper soil layers.

2. AGRICULTURAL DISPLACEMENT

Decades of heavy agricultural tilling and private land landscaping shift this contaminated topsoil horizontally.

3. SIGNAL GHOSTING

The remote NMR detects the combined signature of the static deep target and the shifted contaminated topsoil, creating a slight geographic pull on the final coordinate formulation.

STRATEGIC SYNTHESIS: SCALING BEYOND REMEDIATION

Because the remote NMR method isolates specific atomic signatures via drone matrices, it is entirely agnostic to the target material. The identical workflow used to locate TNT can be recalibrated for highly lucrative commercial resource detection.



ORDNANCE REMEDIATION (PROVEN)

Locating unexploded military threats and industrial scrap with 80% baseline accuracy.



HYDROLOGICAL MAPPING

Pinpointing subterranean aquifers, deep water tables, and hidden agricultural water resources.

NMR CAPABILITIES



HYDROCARBON EXPLORATION

Non-invasive preliminary detection of oil and natural gas pockets prior to expensive exploratory drilling.



MINERAL PROSPECTING

Identifying distinct mineral deposits and heavy metal concentrations with extreme time and resource efficiency compared to traditional bore-sampling.

OPERATIONAL CERTIFICATION

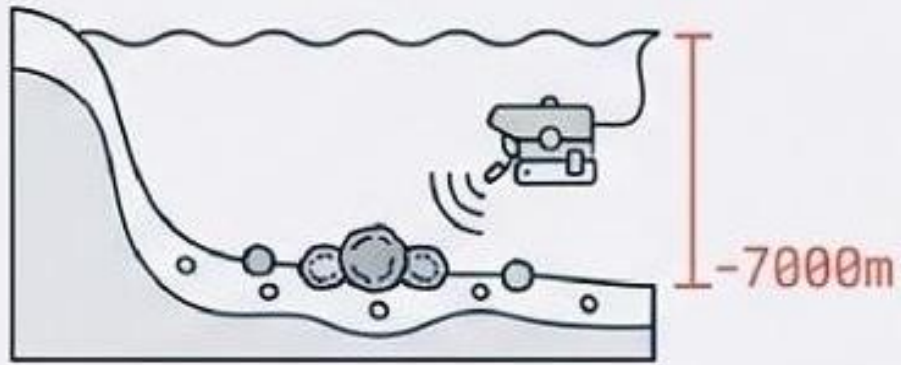
Regarding the search for underground materials and substances of other types (water, hydrocarbons, and minerals), our company confirms the sheer effectiveness of the NMR method. We recommend its application in conjunction with Gruppa Poisk methodologies to enable highly precise object detection with massive advantages in time and resource economy.

ISSUED: Nova Gorica, 24/05/2017

AUTHORITY: ATLAS PROJEKT D.O.O. – Direktor



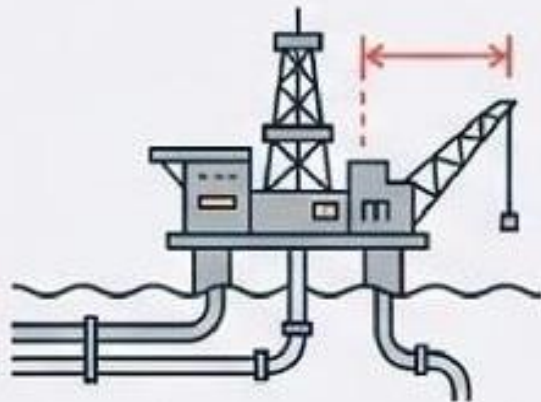
Versatile - Direct results - No photographic interpretation



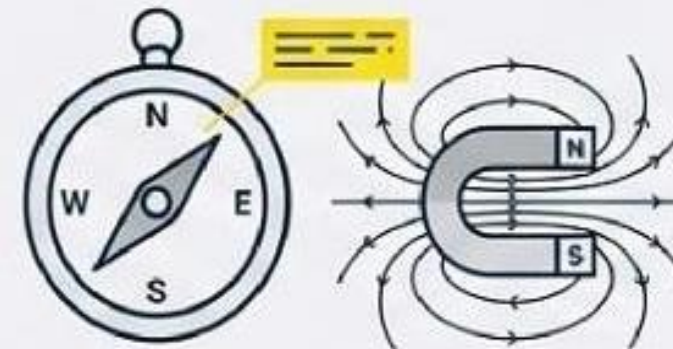
Polymetallic Nodules (Offshore to -7000m).



Archaeology and Shipwrecks.



Oil and Gas (Field Rehabilitation).



AMAS Zones (Overcomes Magnetic Disturbances).

SUSTAINABILITY: 100% Non-invasive. Ideal for national parks. No drilling permits.

Drug enforcement - Arms trafficking - Explosives searches - Buried hazardous chemical waste - Searches for precious metal loot - Chemical precursors in cocaine and heroin production - Terrorist group base camps

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