XPLORA®

Accelerating Subsurface Insight Through Artificial Intelligence

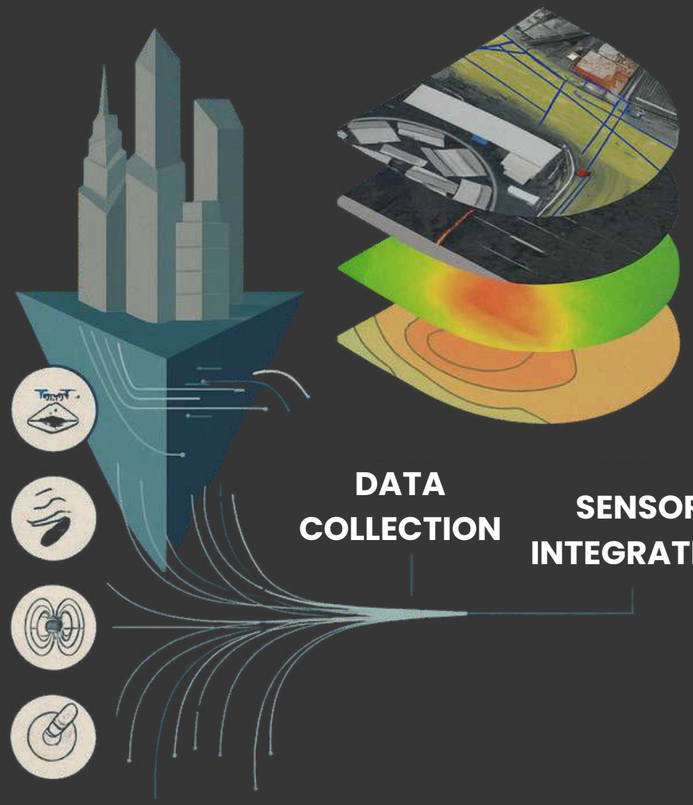
PHOTOVOLTAIC SECTOR

Xplora S.r.l.
Registered Office: Piazza Castello 26, 20121 Milan (MI)
Operational Headquarters: Via Marco Biagi 24, 43123 Parma (PR) VAT: IT13071940962 | Share Capital €129,370.50

Contacts:
rocco.monica@xploragroup.ai
Website: xploragroup.ai Phone: +39 351 314 2970

XPLORA®

In Summary



XPLORA is an Italian firm specializing in subsoil analysis through the application of artificial intelligence techniques for the following purposes:

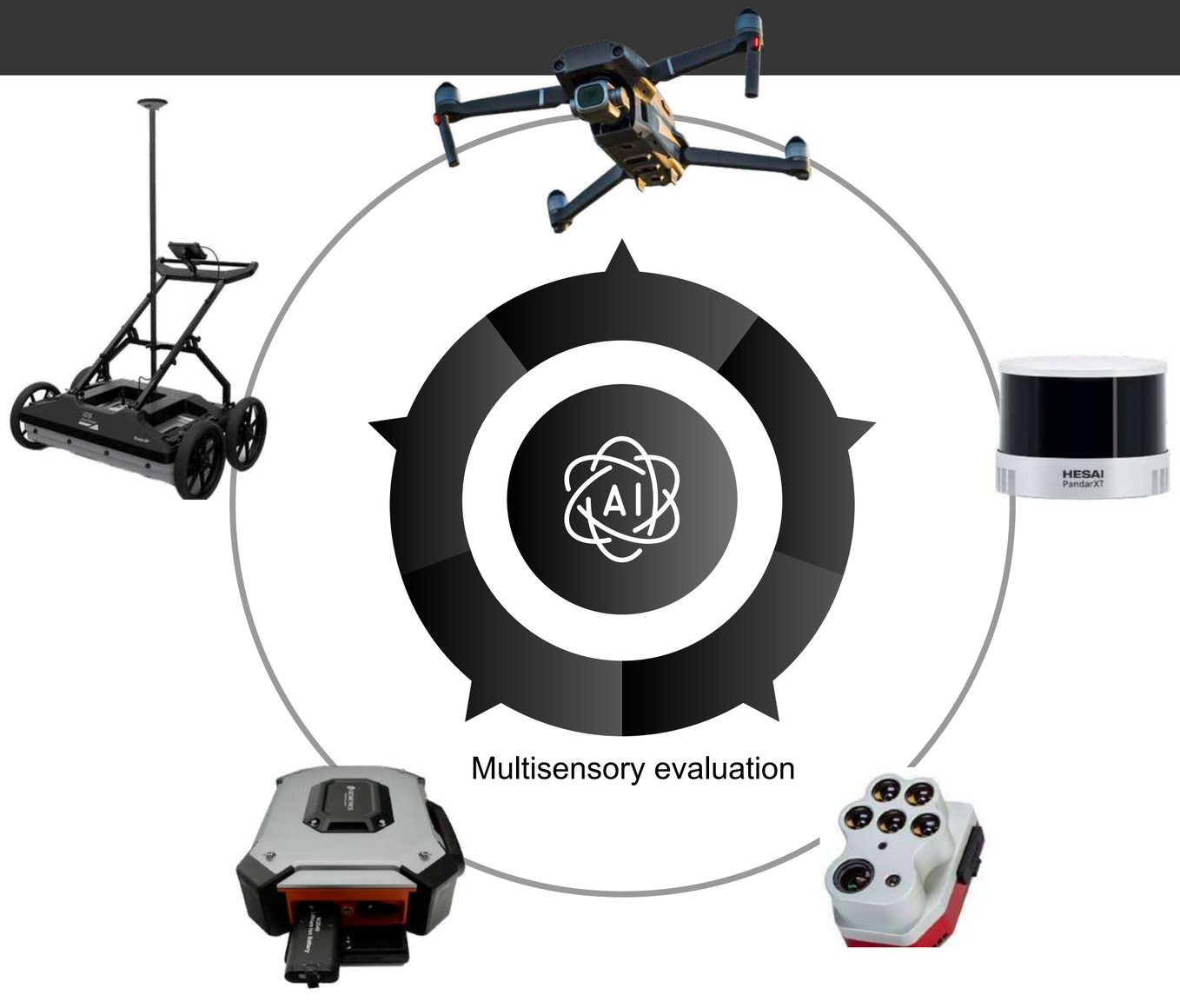
THREE-DIMENSIONAL RESEARCH AND MAPPING OF SUBTERRANEAN UTILITIES

UXO DETECTION (UNEXPLODED ORDENANCES)

ARCHAEOLOGICAL RISK EVALUATION (ARSA)

The application of Artificial Intelligence and automated calculation methods is further enhanced by the implementation of automatic survey techniques, conducted where feasible with aerial drones and land rovers, which are capable of minimizing construction site durations and expediting the data acquisition phase.

Proposed solution: Sensor Fusion and Artificial Intelligence



Proposed solution: Sensor Fusion and Artificial Intelligence



WATCH NOW

Operational Performance Comparison

Window	Conventional (Manual/Sled)	Aerial System + Artificial Intelligence	Productivity Gain
Per Day	≈ 8,000 m^2	48,000 m^2	**6x faster**
48 Hours (Scan Period)	≈ 16,000 m^2	96,000 m^2	**6x faster**
Land Freed (48h Data Delivery)	≈ 16,000 m^2 cleared	up to 96,000 m^2 cleared	**+80,000 m^2 advantage**

Example – 100 ha (1,000,000 m²) Site

Approach	Estimated Time to Completion
Conventional	≈ 125 days (8,000 m^2/ day)
Aerial System + AI	≈ 21 days
Time Saved	**≈ 100 days faster**

Use Case: Unexploded Ordenance Detection

Client: ESCOLIGHT Srl

End user:

Surface area: 150,000 m²

Scope of Work: VRB and Mapping Services & utilities

Operations conducted:

- Non-invasive multisensory analysis utilizing electro- and magnetometry, along with potential ground-penetrating radar (GPR).
- Reprocessing raw data utilizing our DeepGeo® software.
- Map illustrating anomalies and report validated by a certified professional.

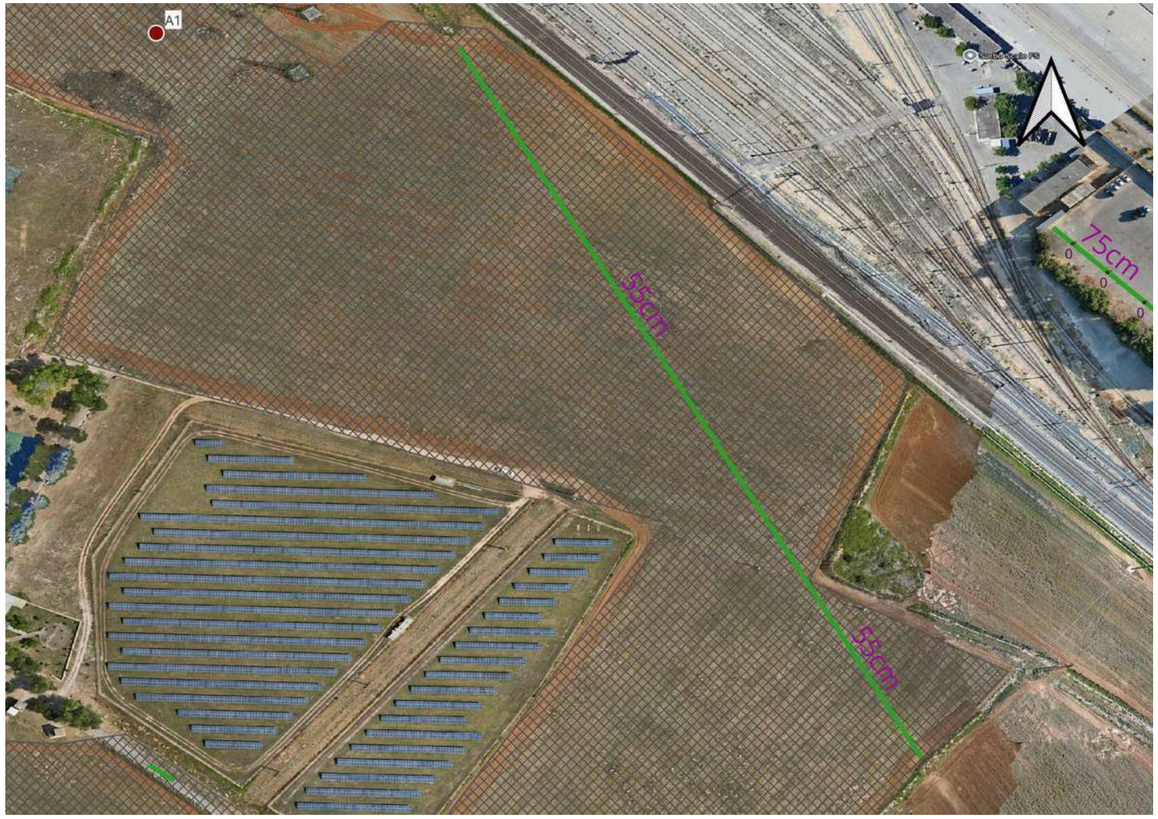


ANOMALY	DESCRIPTION	COORDINATES	Estimated UXO Risk	Depth
A1	Possible residue from previous works	40.36460279, 18.13407405	Low	1–2 m

Thanks to the analyses carried out with our instruments and software tools, it was possible to provide a probable targeting of the detected anomalies, along with an assessment of their compatibility with UXO.
The probability of UXO detection associated with these anomalies is considered LOW.
Consequently, the UXO risk related to anomaly A1 is also deemed LOW, and therefore ACCEPTABLE.
As a result, no further survey actions are recommended in the investigated area, except for standard caution during subsequent work phases.

Use Case: Utility Mapping

Total area



The analysis of data obtained from electromagnetic and GPR surveys, conducted using our proprietary software, enabled us to detect the presence of an underground utility situated at approximately 0.55 cm below ground level within the surveyed areas.

Detail areas





Use Case: Unexploded Ordenance Detection

Client: DREN SOLARE S.r.l.

End user:

Surface area: 60,000 m²

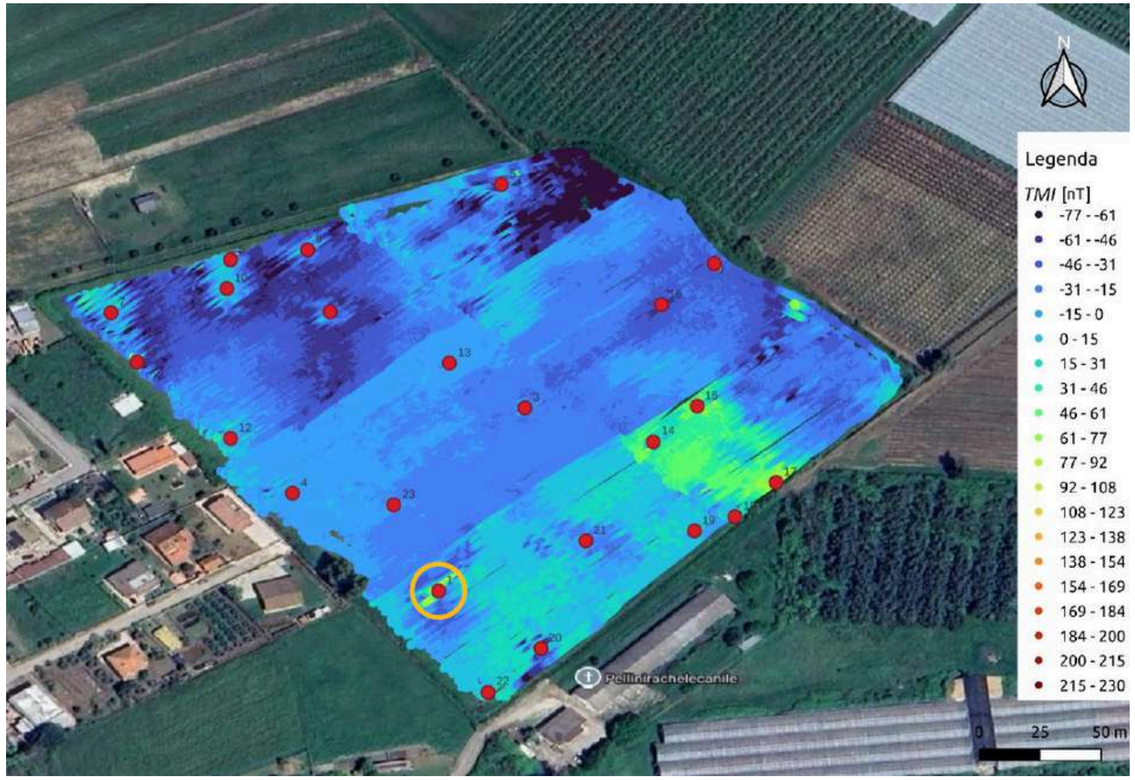
Job Purpose: VRB

Operations conducted:

- Non-invasive multisensory analysis utilizing an electromagnetometer and magnetometer
- Reprocessing raw data utilizing our DeepGeo® software.
- Map illustrating anomalies and report validated by a certified professional.



Use Case: Unexploded Ordenance Detection



ANOMALY	DESCRIPTION	COORDINATES	Estimated UXO Probability	Depth
A1	Anomaly of undetermined nature, not targetable a priori	41.58474252, 12.6899756	Not determinable a priori	0.5 – 2.5 m

RESULT: An instance of an anomaly requiring immediate investigation

The likelihood of encountering UXO linked to anomalies A2 through A23 is regarded as LOW.
It follows that the risk of discovering UXO associated with these anomalies should be regarded as LOW, and thus ACCEPTABLE.

Concerning the A1 anomaly, characterized by its metallic properties, our software has not attained reliable targeting. As a result, it is impossible to ascertain its probable nature a priori or to evaluate an associated war risk classification. Therefore, the CSP and/or CSE are tasked with assessing any supplementary investigative measures and executing further inquiries to ascertain the war risk linked to this anomaly.

As a precautionary measure, we advise seeking a specialist assessment from a technician with expertise in explosives (certified EOR operator) in accordance with Legislative Decree 81/08.

Use Case: Unexploded Ordenance Detection

Client: Iren Green Generation Technology S.r.l.

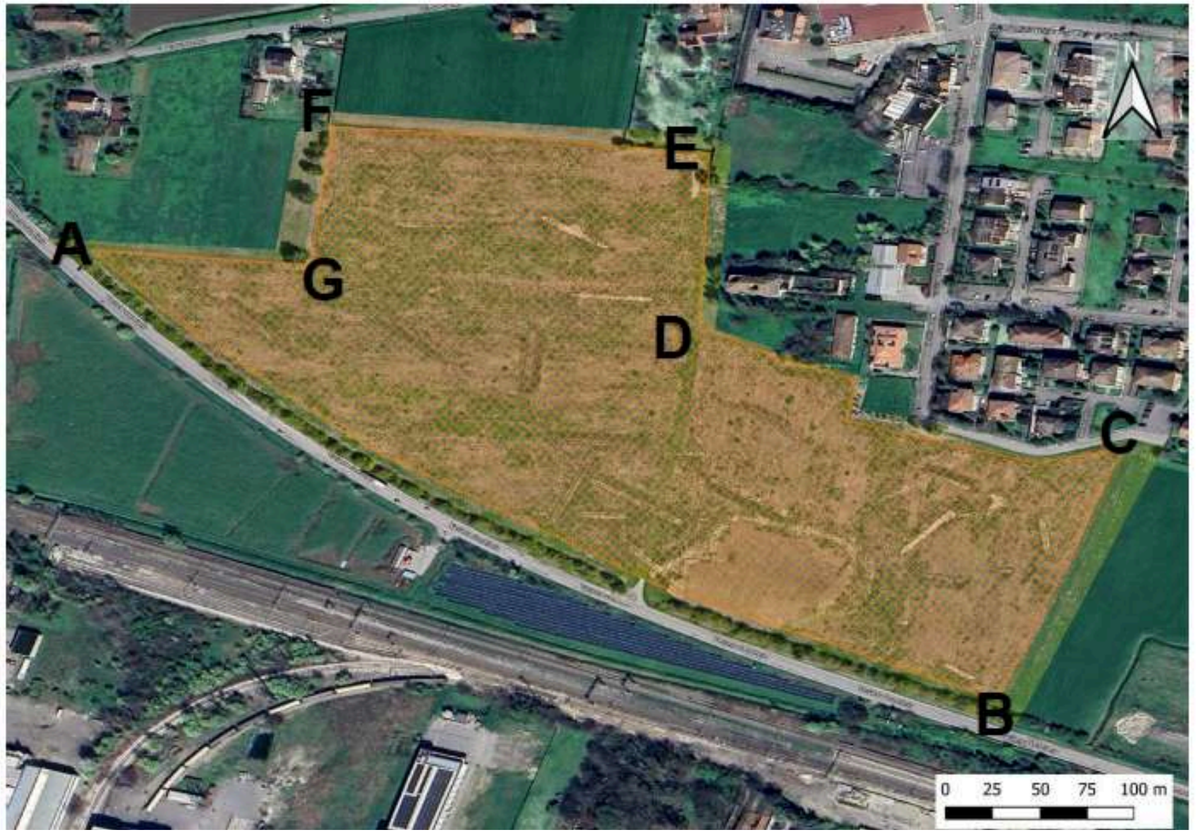
End user:

Surface area: 110,000 m²

Job Purpose: VRB

Operations conducted:

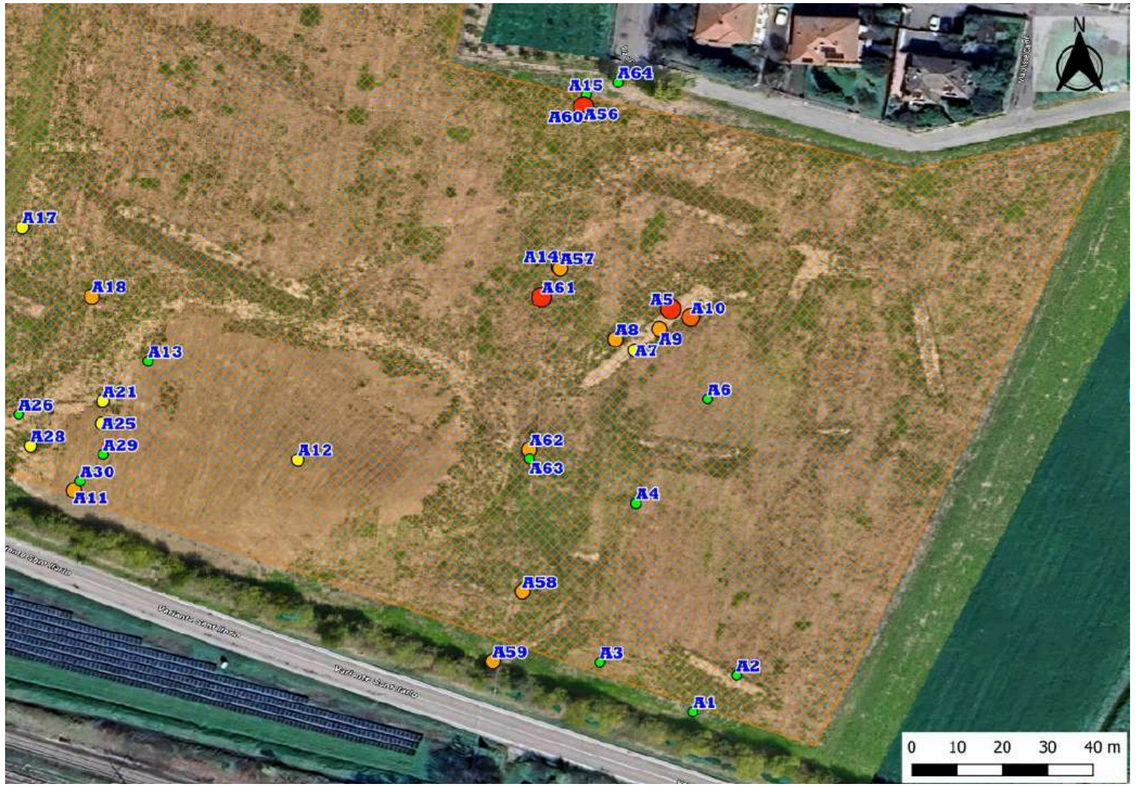
- Non-invasive multisensory analysis utilizing an electromagnetometer and magnetometer
- Reprocessing raw data utilizing our DeepGeo® software.
- Map illustrating anomalies and report validated by a certified professional.



Large surfaces are typically segmented into sub-areas.

NOME VERTICE	COORDINATE VERTICE
A	44.7699827,10.4433977
B	44.7669365,10.4495242
C	44.76864632,10.45036063
D	44.7694590,10.4475056
E	44.7706191,10.4475752

Use Case: Unexploded Ordenance Detection



Comprehensive account of the anomalies



Framing with a color map

Use Case: Archaeological Risk Evaluation

Client: COEMI S.r.l.

End user:

Surface area: 23,000 m²

Job Purpose: VRA

Operations conducted:

- Non-invasive multisensory analysis utilizing electro and magnetometry.
- Reprocessing raw data utilizing our DeepGeo® software.
- Map illustrating anomalies and report validated by a certified professional.



Use Case: Archaeological Risk Evaluation

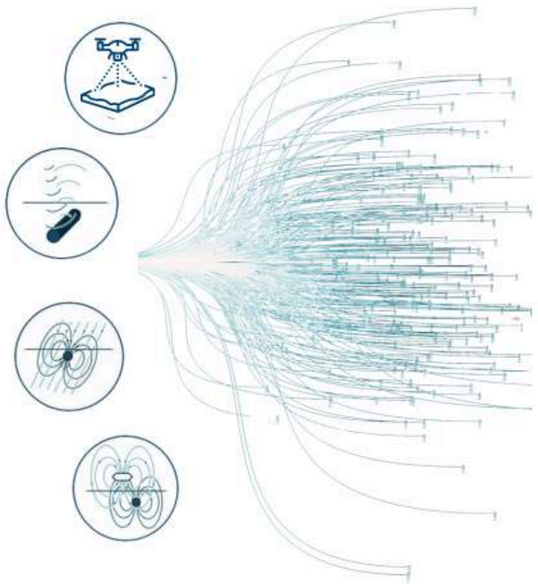
Summary of georeferenced anomalies with a compatibility index for archaeological elements/structures.

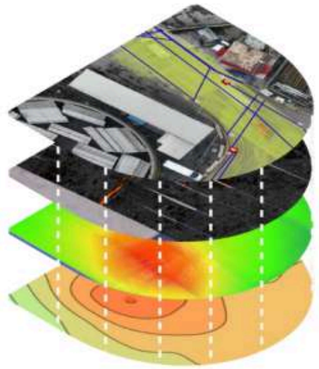
ANOMALY	DESCRIPTION	COORDINATES (WGS84 – EPSG 4326)	Probability of Archaeological Finding	Depth
A1	Probable allotropic fragment of archaeological significance	37.1701285, 15.1782315	Medium	1 – 2.5 m
A2	Probable anthropogenic residue from previous works	37.1699236, 15.1802255	Low	1 – 2.5 m



RESULT: A decrease in the total number of archaeological surveys reported by the Superintendency from 20 to 5.

Conclusions and Perspectives





- AI Analytics: Accelerated, More Impartial, and Standardized
- Support for infrastructure oversight, construction projects, and safety measures.
- Establishing a database for prospective projects