COMPREHENSIVE UNDERGROUND MAPPING

Xplora provides an advanced preventive archaeology service designed to assist contractors in complying with regulatory requirements for archaeological research and to prevent unforeseen costs or delays in projects due to the discovery of artifacts or archaeological sites during construction.

By utilizing non-invasive technologies and proprietary artificial intelligence algorithms, Xplora can not only accurately confirm the potential georeferenced presence of archaeological artifacts but also produce an objective and repeatable output, ensuring greater precision and reliability in the data collected.

The technical outputs include a GIS project with updated photogrammetry and layouts of the identified archaeological structures, culminating in the issuance of approval from the heritage authority.

This approach minimizes construction delays caused by archaeological findings, allowing projects to continue uninterrupted in unaffected areas.

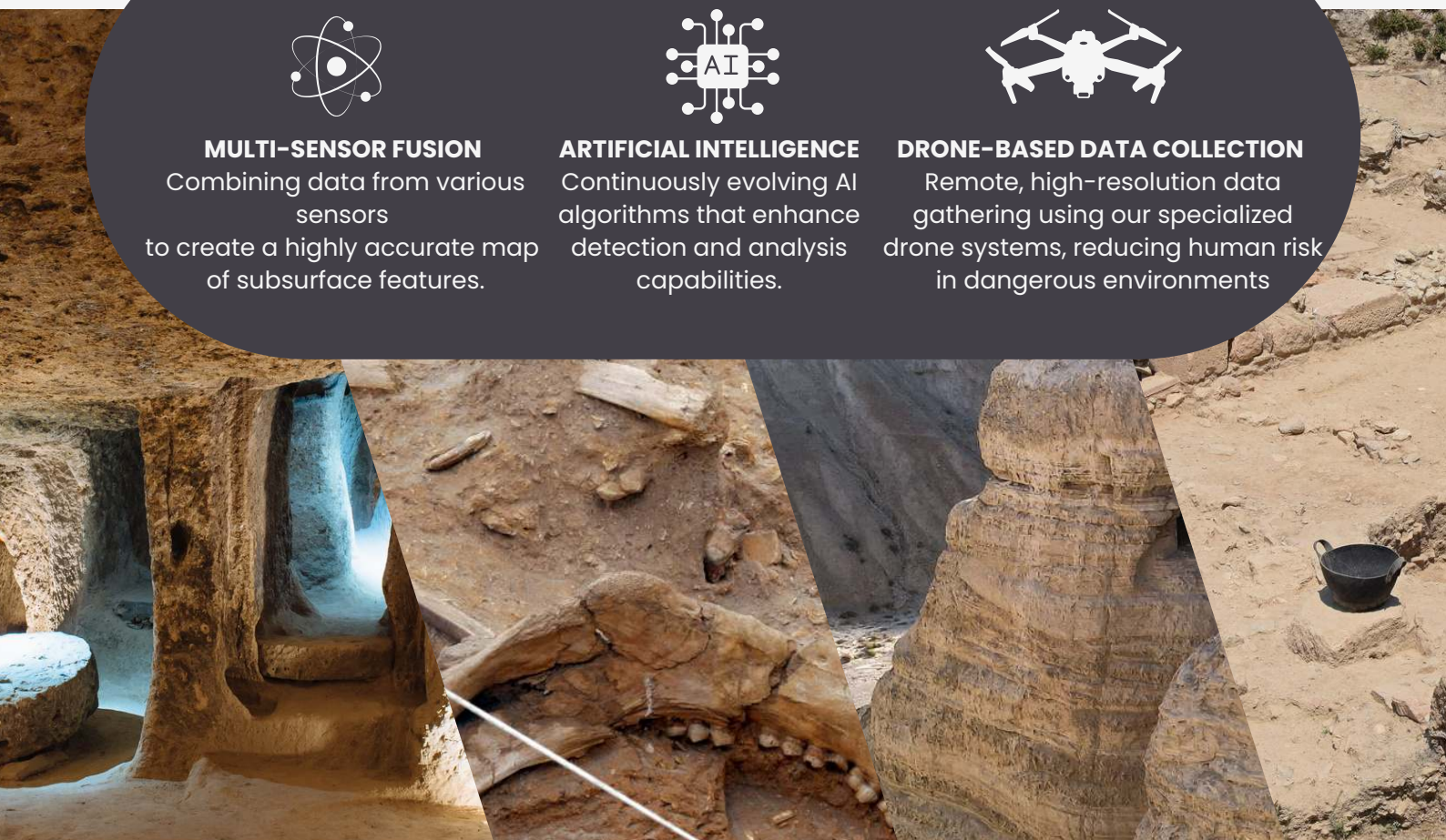
By optimizing research and excavation activities, Xplora ensures that projects comply with regulations and meet established timelines without incurring additional costs.

THE TECHNOLOGY

MULTI-SENSOR FUSION
Combining data from various sensors
to create a highly accurate map of subsurface features.

ARTIFICIAL INTELLIGENCE
Continuously evolving AI algorithms that enhance detection and analysis capabilities.

DRONE-BASED DATA COLLECTION
Remote, high-resolution data gathering using our specialized drone systems, reducing human risk in dangerous environments



ARCHEOVEA

LOCATION: Lesignano de Bagni (PR)
DATE: 05/2024
TERRAIN: Field

PROJECT

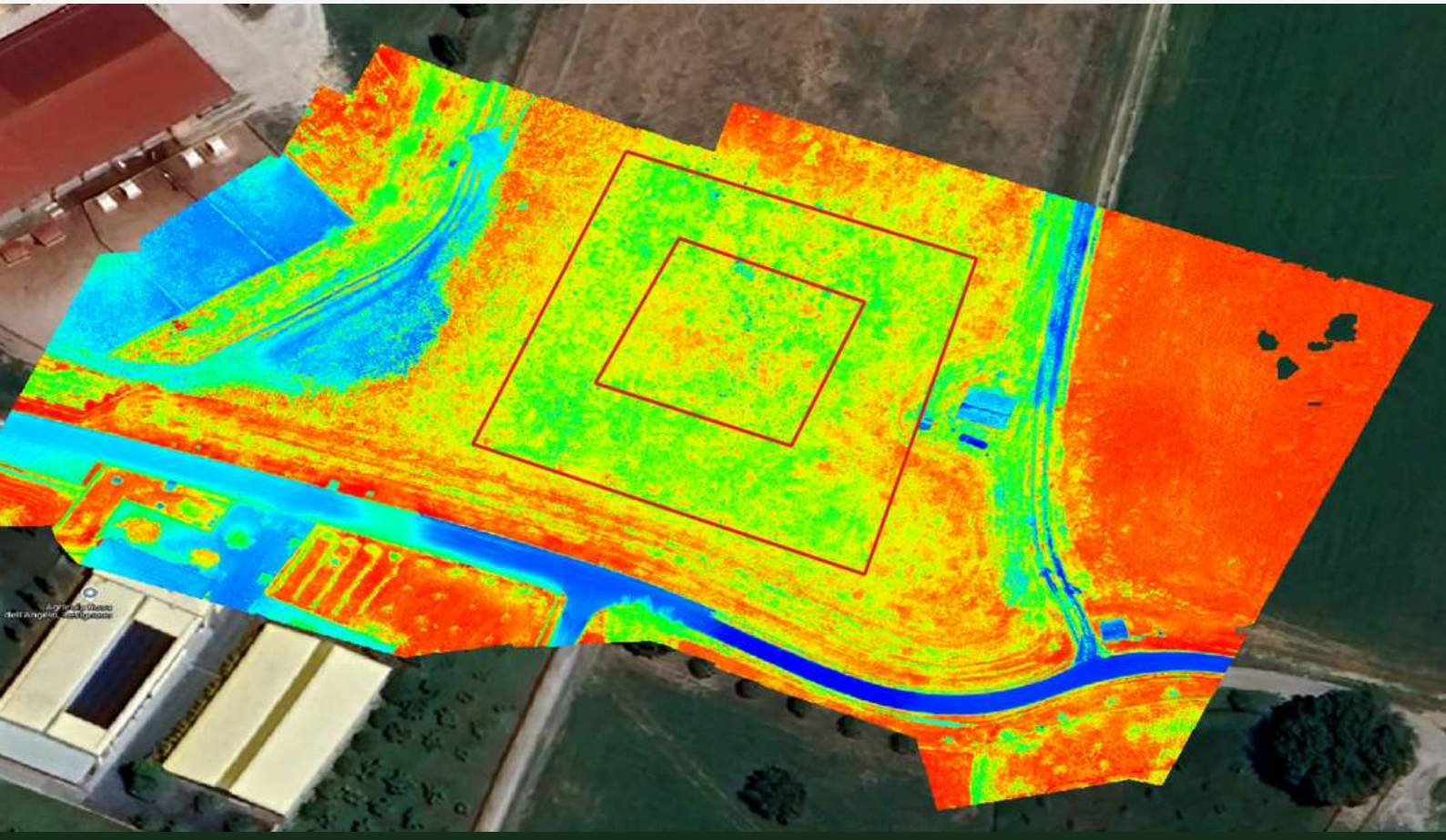
Survey conducted using a drone equipped with a multispectral sensor and GPR radar over a 15-hectare area, aimed at detecting the potential presence of archaeological artifacts or structures prior to excavation activities for construction projects.

CHALLENGE

The use of non-invasive methodologies enabled the identification of archaeological artifacts, ensuring the preservation and enhancement of cultural heritage.

OUTPUT

- GIS project with updated photogrammetry and layouts of buried structures, including characterization and depth indication;
- Validated technical report;
- VIPIA/VIARCH - Archaeological impact assessment report, approved by the heritage authority.



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