XPLORA® FOR ENVIRONMENTAL CONTAMINANTS

COMPREHENSIVE UNDERGROUND MAPPING

Xplora provides an advanced preliminary investigation service for the characterization and mapping of hydrocarbon and pollutant concentrations in the subsoil, utilizing non-invasive methodologies and integrating advanced artificial intelligence algorithms, ensuring full compliance with ARPA's required standards. The technical outputs include a Shape File that can be integrated into GIS projects, featuring updated territorial digitalization and a 3D pollutant map down to a depth of 14 meters, as well as a technical report compliant with national regulations. These tools provide an objective and reliable basis for creating ARPA's characterization plans and for reducing the number of core samples required by the environmental agency.

Xplora's service serves as a critical resource for public and private organizations, as well as industry professionals, delivering essential tools and data for sustainable project management in strict compliance with applicable regulations.

THE TECHNOLOGY



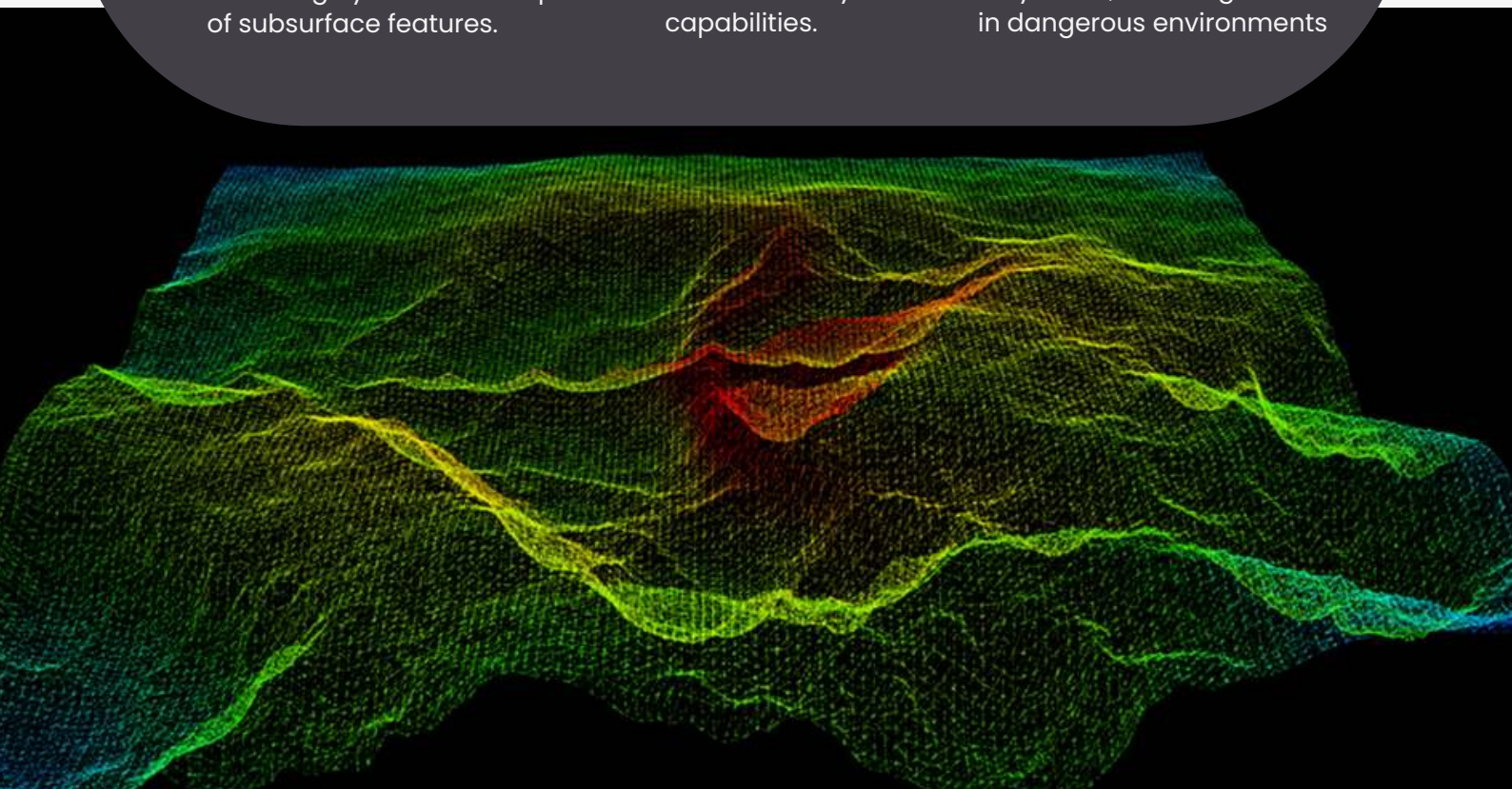
MULTI-SENSOR FUSION
Combining data from various sensors
to create a highly accurate map of subsurface features.



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



MD DISCOUNT

Location: Gricignano di Aversa (CE)
DATE: 02/2024
Terrain: Field

PROJECT

ICharacterization and mapping of hydrocarbon and pollutant concentrations in the subsoil using advanced non-invasive electromagnetic and multispectral technology. The goal was to create a preliminary characterization for ARPA to guide any necessary invasive analyses.

CHALLENGE

Xplora has combined electromagnetic and multispectral sensors with artificial intelligence algorithms, developing a sensor fusion system to generate detailed 3D subsurface maps capable of accurately detecting hydrocarbons and pollutants, determining their geographical location and depth in the ground without harming soils or ecosystems.

OUTPUT

- Shape File for GIS project with update territorial digitalization and pollutant 3D
- Map up to 14 meters depth Technical report compliant with national law



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