XPLORA®

FOR SUBSOIL ANALYSIS

COMPREHENSIVE UNDERGROUND MAPPING

As the need to understand subsurface conditions grows across various industries, Xplora provides advanced solutions that create precise subsoil 3D digital twins of assets.

This technology offers detailed insights into the geophysical characteristics of terrain and subsurface conditions. Xplora specializes in identifying critical risks, including underground utilities, subsurface anomalies, and environmental changes.

By proactively tackling these challenges, Xplora enhances your planning capabilities, reduces disruptions, and optimizes resource allocation, eliminating the need for excessive contingencies.

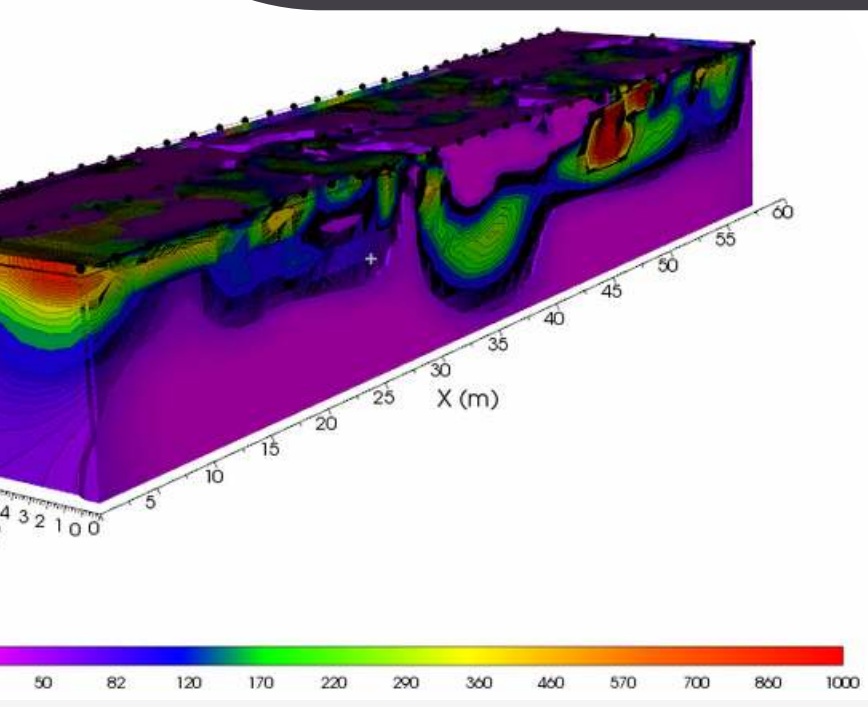
Our solutions streamline subsurface analysis, improve efficiency, and ensure successful project outcomes, helping you adapt to the evolving demands of modern infrastructure and development.

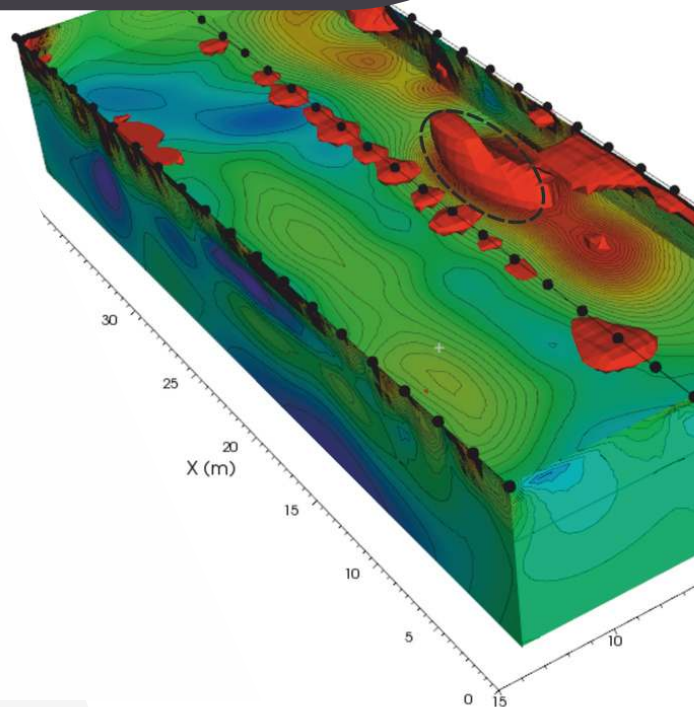
THE TECHNOLOGY

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





FG PRA - GIUGGIA COSTRUZIONI

LOCATION: Genova (GE)
DATE: 03/2024
TERRAIN: Field

PROJECT

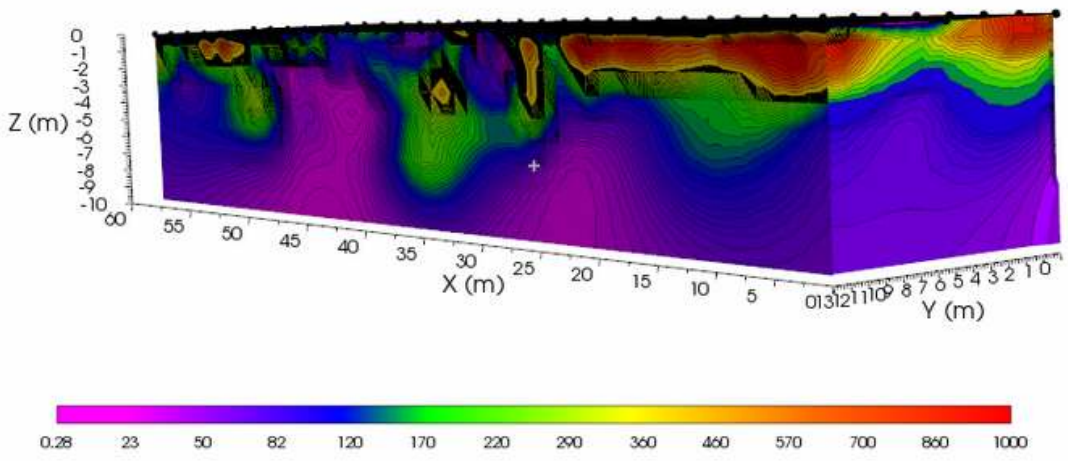
Geophysical survey to detect cavities or soil anomalies within 15 meters of depth, involving hardware setup, regulatory planning, on-site data acquisition, and central data analysis, using minimally invasive sensors on terrestrial vehicles.

CHALLENGE

Conduct an accurate and non-invasive survey in a densely anthropized and scarcely accessible area to assess the soil composition, stratigraphy, and presence of tunnels, in order to calculate the bearing capacity of the ground for the installation of a large and heavy crane.

OUTPUT

- GIS project with updated photogrammetry and layout of underground utilities and buried structures, including characterization, type, and depth indication.
- DWG file for CAD processing.



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