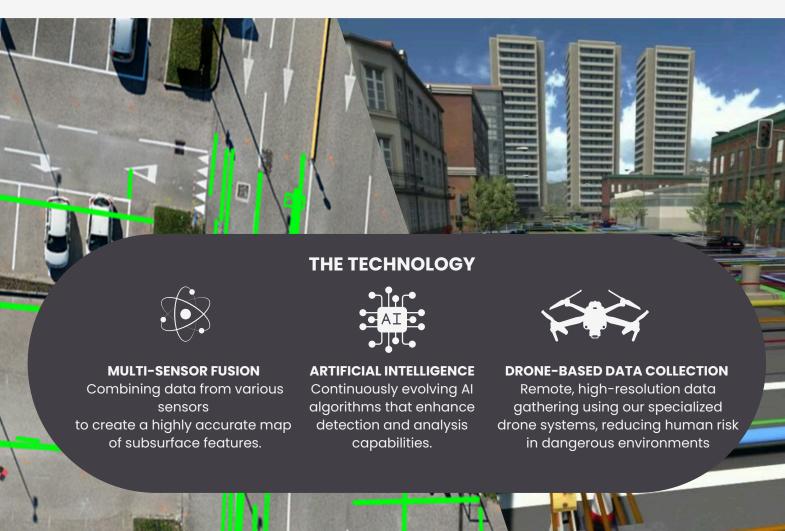


## COMPREHENSIVE UNDERGROUND MAPPING

Xplora provides an advanced service for underground utility mapping, designed to ensure the highest scientific accuracy in representation of subsurface the infrastructure. Utilizing non-invasive methodologies and advanced artificial intelligence algorithms, Xplora delivers and repeatable outputs, objective minimizing noise and ensuring superior data accuracy and reliability.

The technical deliverables include a .dwg map of the identified utilities and a GIS project where the utility geometries are overlaid on updated photogrammetry of the area, ensuring enhanced geospatial precision.

These outputs are fully compatible and integrable with both new and existing projects. This approach streamlines the management of underground utilities, supporting organizations in delivering projects on time while reducing operational costs. Additionally, our technical report serves as a critical resource during the detailed design phase, enabling a more precise evaluation of potential unforeseen risks.





# **HERATECH**



LOCATION': Bologna (BO)

DATE: 09/2024 TERRAIN: Asphalt

#### **PROJECT**

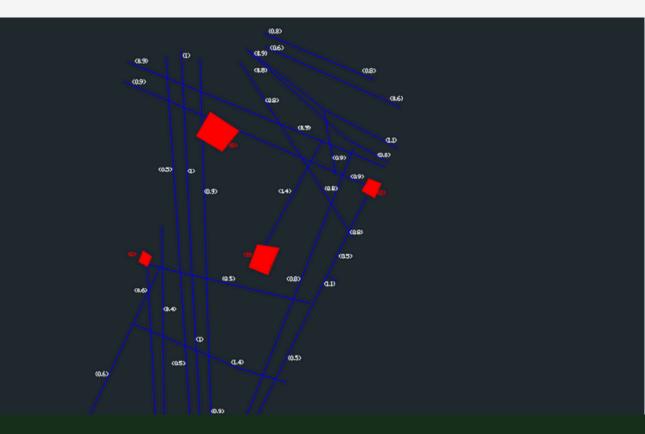
Subsurface utility mapping for the detection of underground infrastructure and sewer networks to a depth of up to 7 meters below ground level.

#### **CHALLENGE**

The densely built-up environment required highly detailed and accurate processing, fully leveraging Xplora's analytical methodology. The terrain conditions, heavily anthropized, were prohibitive for technical surveying as the varying grain size of the subsoil and the different fill materials caused significant interference with the raw signal. Xplora's algorithms and neural networks solved the problem.

### **OUTPUT**

- GIS project with 3D geometry of the underground utility layout down to a depth of 7 meters
- · .dwg file for CAD processing



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