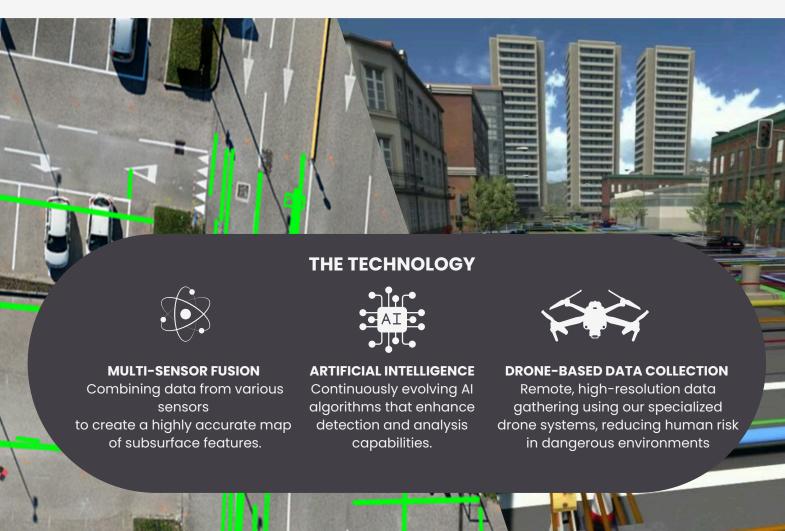


## COMPREHENSIVE UNDERGROUND MAPPING

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.





# **FACCHETTI COSTRUZIONI**



**LOCATION**: Val Trompia, Italy

DATE: 03/2024 TERRAIN: Field

### **PROJECT**

Mapping of underground utilities within the first 2.5 meters of depth from the ground level.

## **CHALLENGE**

Produce an accurate three-dimensional map of the utilities below the ground surface, optimizing survey activities to minimize disturbances to vehicular traffic. This was made possible by the capabilities of Xplora software, which enables excellent interpolation of sparse data, thus reducing fieldwork activities.

#### **OUTPUT**

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

