XPLORA®

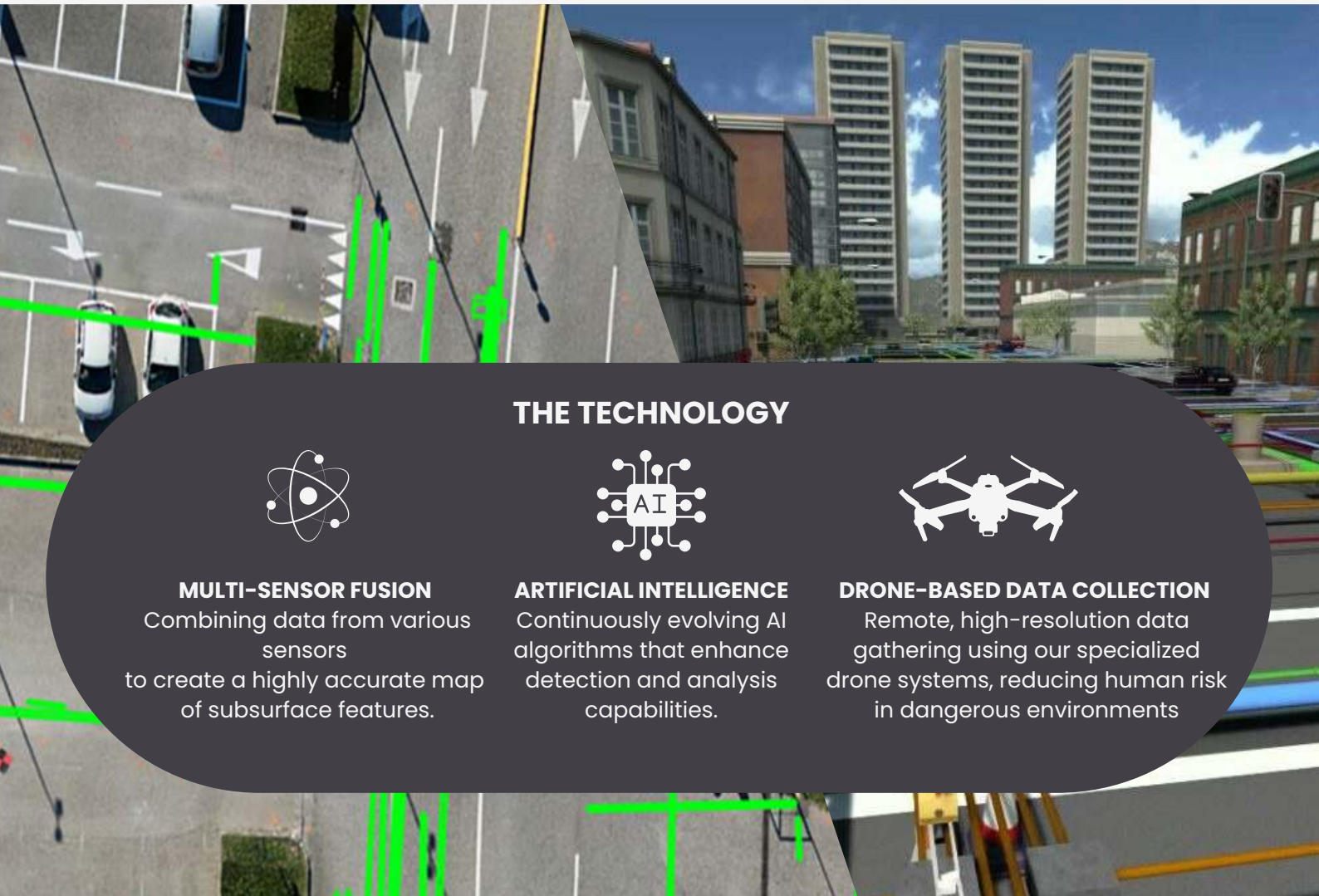
FOR ENERGY AND UTILITIES

COMPREHENSIVE UNDERGROUND MAPPING

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



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

IREN

LOCATION: Piacenza
DATE: 03/2024
TERRAIN: Asphalt

PROJECT

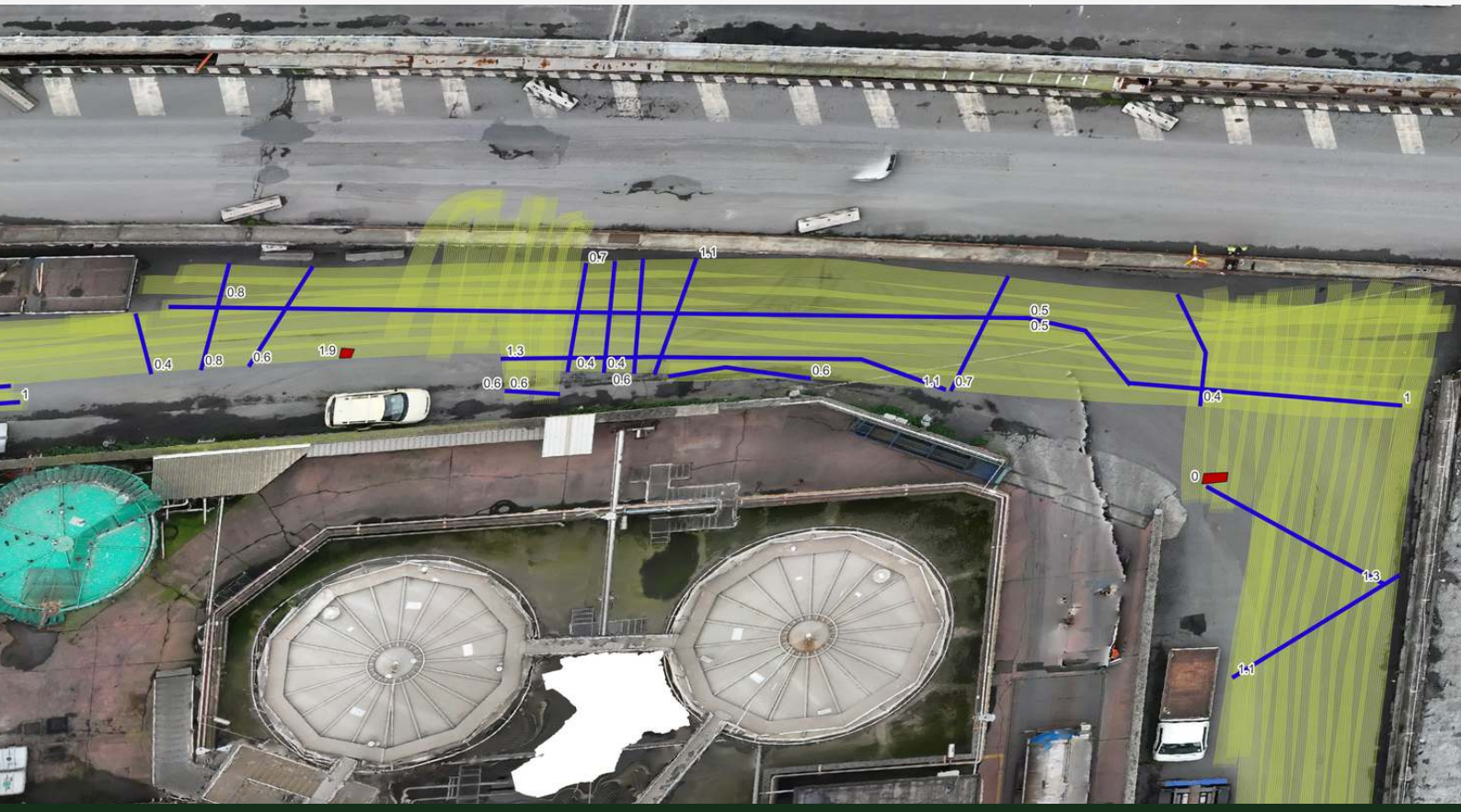
Subsurface utility mapping to a depth of 3 meters below ground level for the design and subsequent installation of a new utility line.

CHALLENGE

The environment, heavily contaminated by residues from previous industrial operations, required highly detailed and accurate processing, fully leveraging Xplora's analytical methodology. The terrain conditions were prohibitive for technical surveying as metallic debris and soil fills 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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