XPLORA®

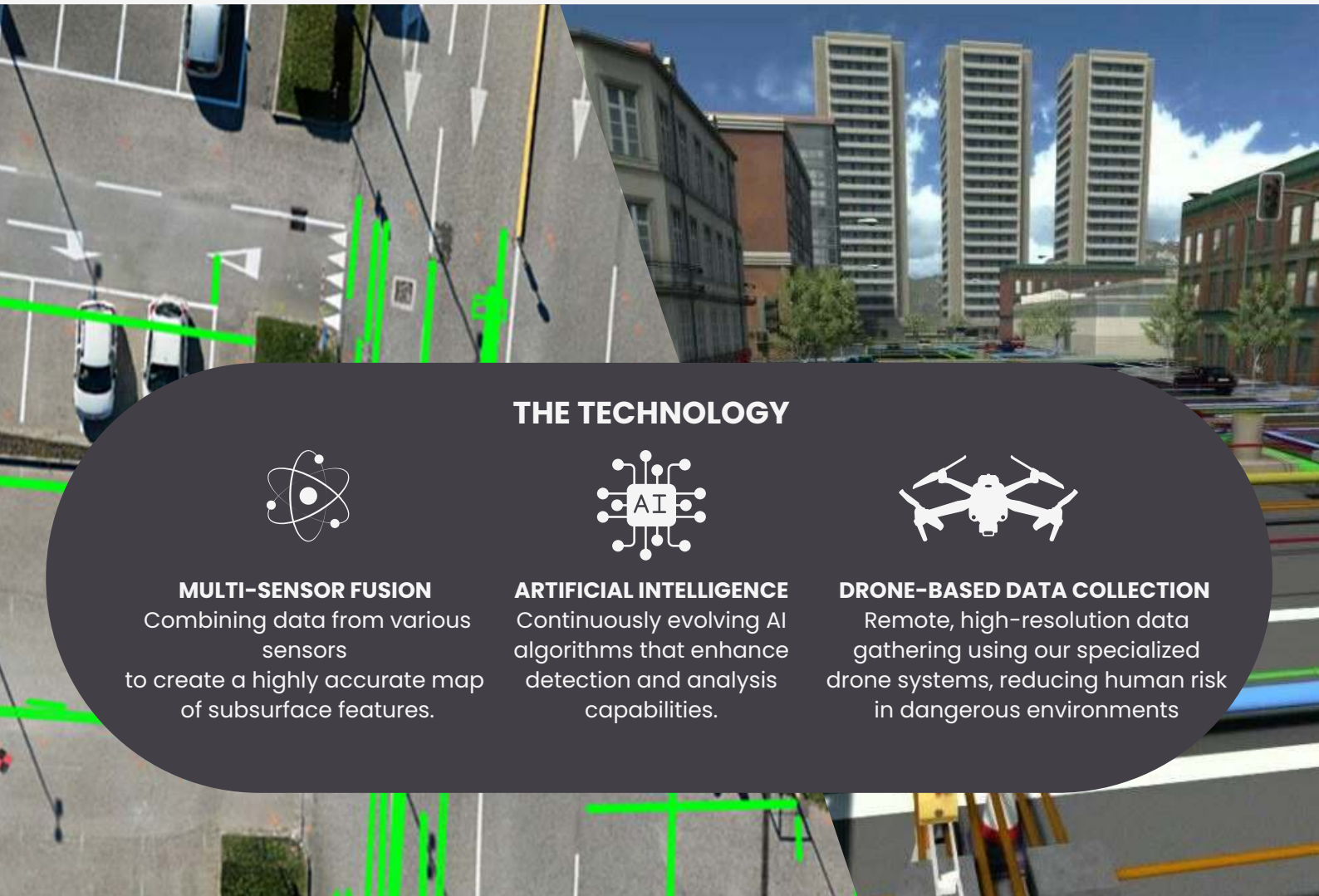
FOR ENERGY AND UTILITIES

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

TESLA

LOCATION: Vulcano Shopping Center, Nola (NA)
DATE: 09/2023
TERRAIN: Asphalt

PROJECT

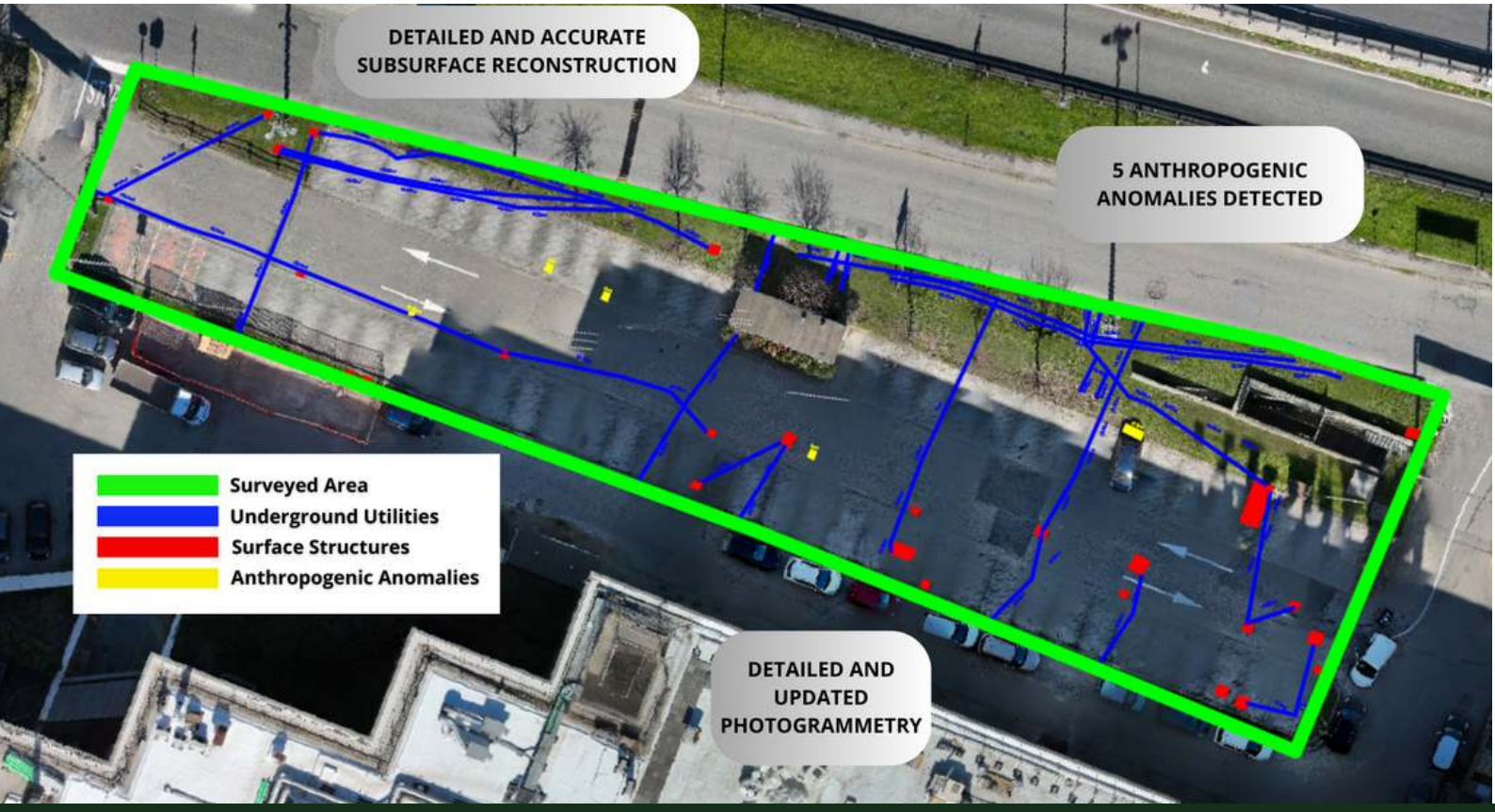
Mapping of utilities to plan the layout for the installation of ultra-high-power electric cables for electric vehicle charging at the Vulcano Shopping Center in Nola.

CHALLENGE

A highly precise mapping was carried out to ensure no interference with existing utilities and to ensure the safe placement of cables. The surveys reduced the need for invasive methods, simplifying the installation process.

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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