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Integrated Solution for Utility Detection and Mapping

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Individual data collected in underground utility asset detection and mapping

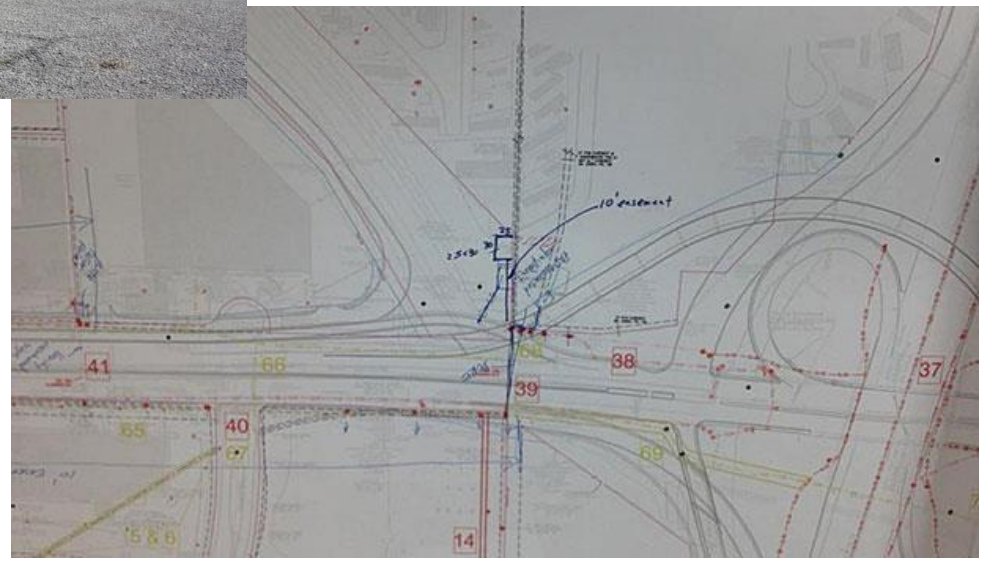
Cable Locator surveys

Asset and cartography survey

GPR surveys

3D reality reconstruction

Cartography restitution



Visual inspection

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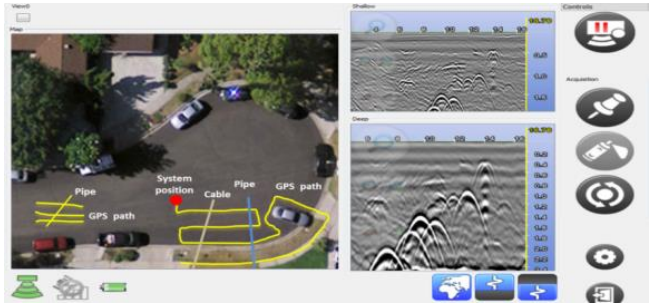
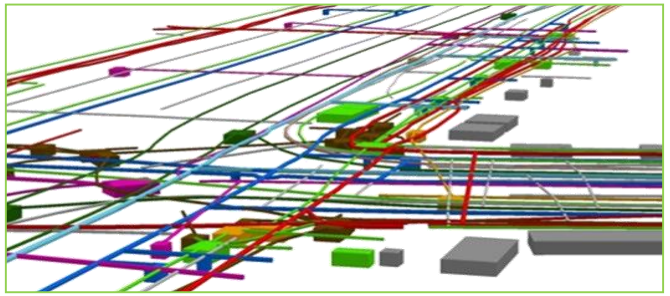
Clear need for accurate highly reliable up to date information - usable immediately

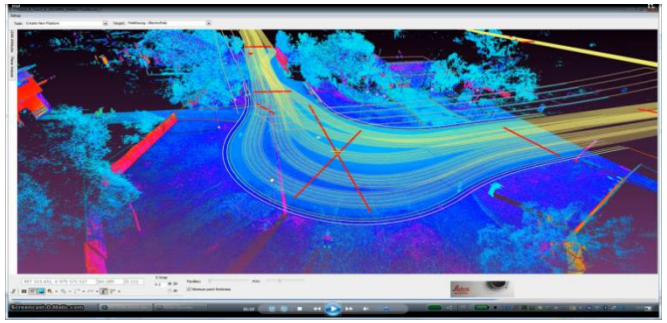
Three main applications of underground utility reality capture



- **Utility detection**
  - **On site direct detection** of particular services, typically marked with spraypaint on the ground



- **Utility mapping**
  - **Reconstruction** of all the underground utilities in more or less extended areas – relatively positioned



- **Complete asset reconstruction**
  - **Fully Georeferenced 3D reconstruction** of above- and underground assets

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High Quality Precision Sensors

Detection

Positioning

Software and Data Analytics

uNext

DX Manager

Leica Geosystems

Unique Value Proposition in the Market

HEXAGON GEOSYSTEMS

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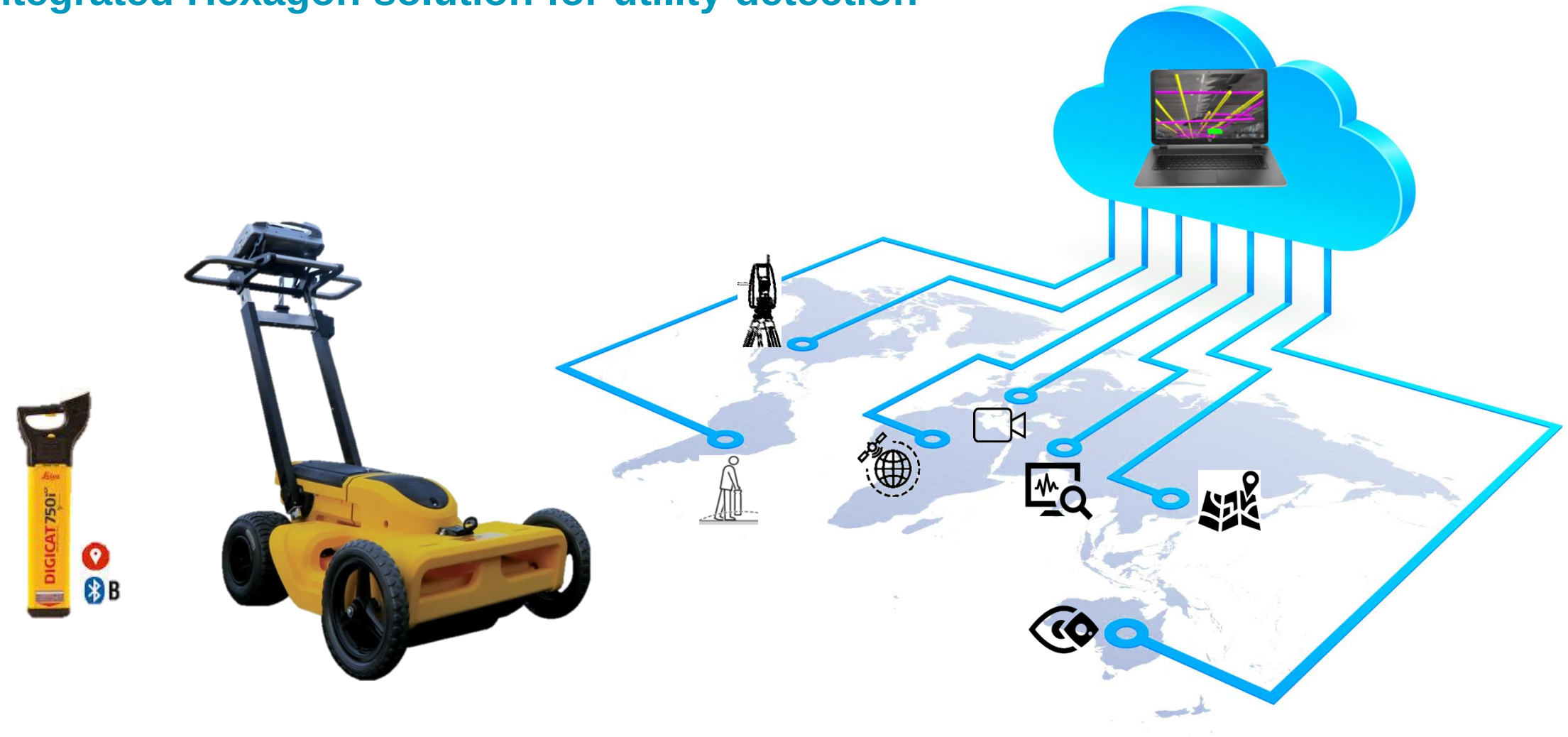
Fully integrated Hexagon solution for utility detection



Streamlined process from field to office and back covering the entire workflow

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Fully integrated Hexagon solutions for utility detection and mapping

- when it has to be **right**

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Fully integrated Hexagon solutions for utility detection and mapping

Streamlined process from field to office covering the entire workflow

Utility Mapping with Big Data Analytics

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Fully integrated Hexagon solutions for utility detection and mapping

Streamlined process from field to office covering the entire workflow

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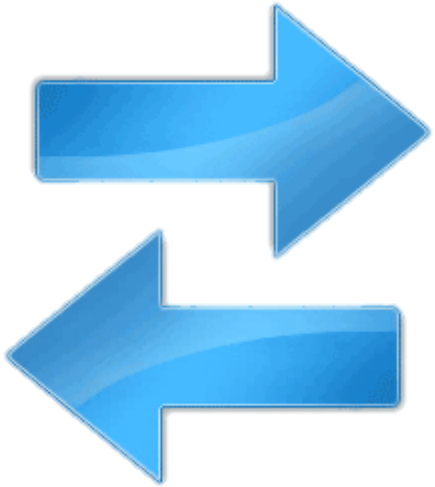
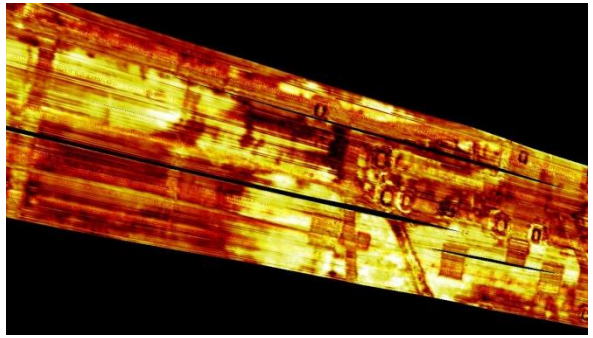
Smart Data Analytics (post processing) tailored to customer needs

Capture accurate data and convert it into actionable information immediately





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Snapshot of vision for visualization

Facilitate end user in data interpretation of the buried utilities

Real time tomography of the underground utility network.

Camera for visual information of recorded soil objects *

Augmented Reality to visualize underground objects in augmented reality*

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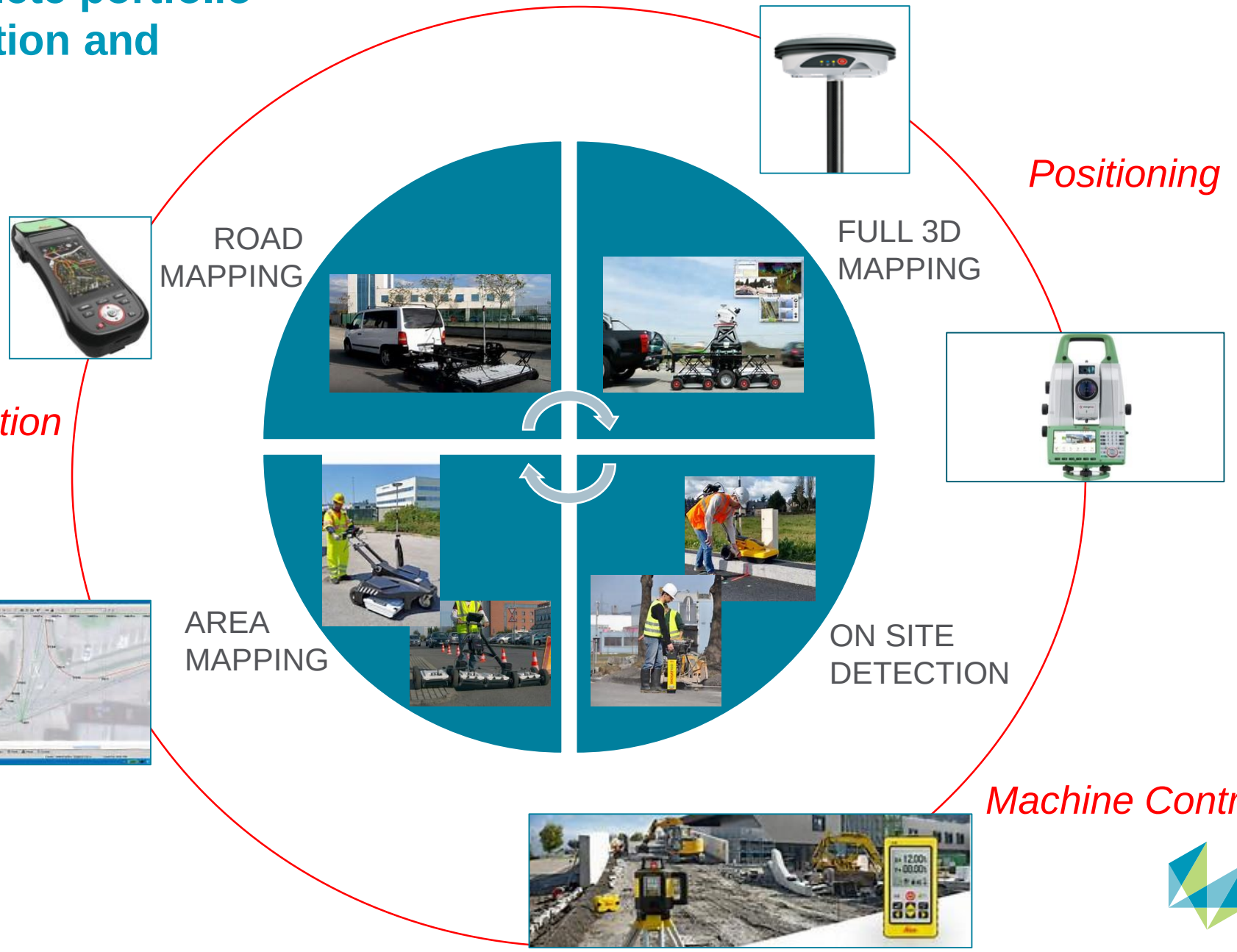
Hexagon complete portfolio for utility detection and mapping



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