

# ENERGY AND UTILITIES

SCOUT AERIAL

## GIS Solutions for Energy and Utilities

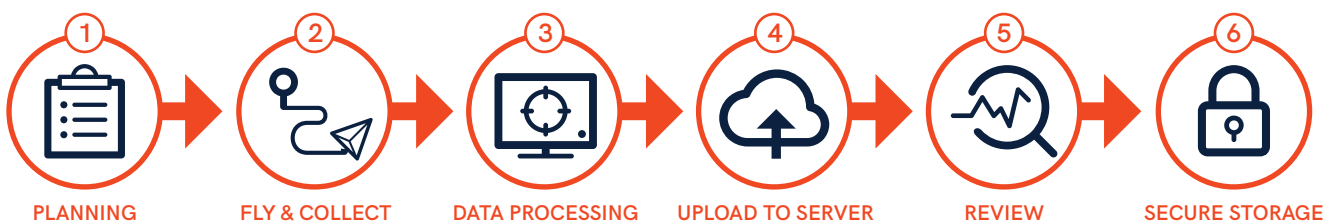
An accurate and spatially connected GIS database of your infrastructure allows for effective planning, maintenance, and inventory in addition to modelling flow from sources and sinks within your network. Our solutions provide an effective tool for creating accurate and timely reports about your as-built assets. We develop specialised detection algorithms that can automate your workflow and remove part of the human element of assessment, meaning increased efficiency across the board. Our services include:

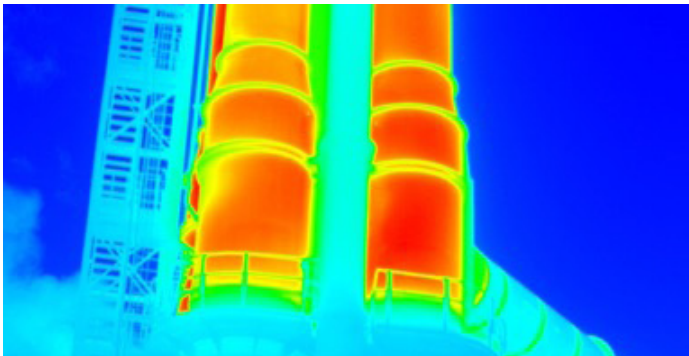
- 3D Modelling of assets (Towers, Poles, Powerlines, buildings, Switches, Bridges, HV)
- Thermal scanning and defect identification (Transformers, switches etc)
- Vegetation encroachment reports
- High res Imagery and video of assets
- Rail Surveys (defects, alignment, rail asset inspections)
- Solar panel inspections
- Pipeline inspections
- Gas detection (N, NO, C, CO, CO2, H2S, Methane, Propane)
- Lidar
- Topographic surveys

Our data collection methodology has been built over 6 years using Remotely Piloted Aircraft Systems (RPAS) commonly known as drones. We also build and develop payloads for gas sensing which can be leased for pipeline inspections. These tools allow us to conduct works at a substantially lower cost to traditional methods, while increasing safety and removing the need for large personnel resources.

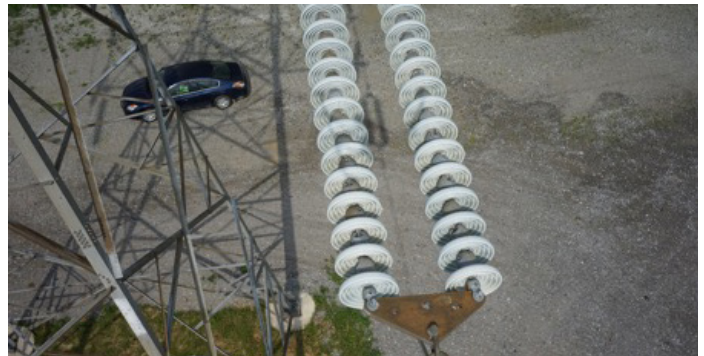
Scout Aerial has the experience and advanced tools designed specifically to meet the needs of today's modern utilities. If your utility specializes in electrical distribution, hydrological, gas, or telecommunications or solar, we have the GIS solutions for monitoring your assets and identifying potential threats within your network. We use advanced technologies that allow us to reduce your workload when it comes to inspections, maintenance and compliance.

To ensure successful outcomes with every project, we constantly develop our processes.





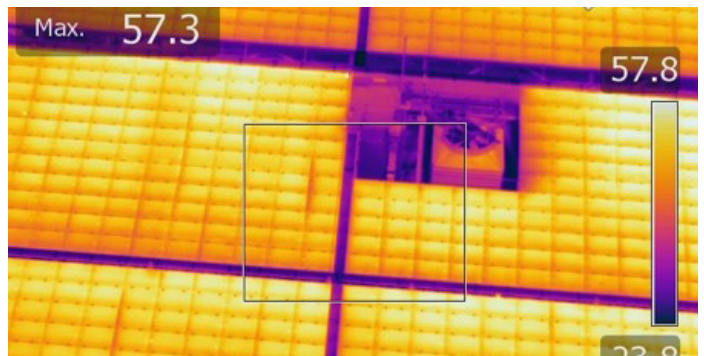
Thermal assessments



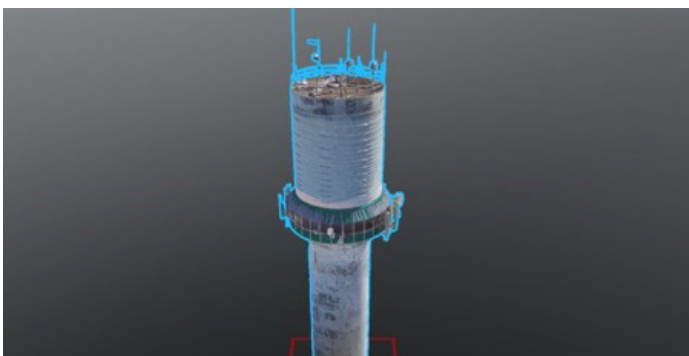
Insulator inspections



Flare tip inspections



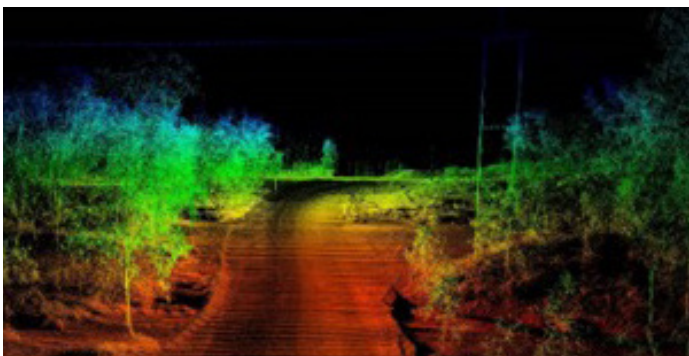
Solar panel inspections



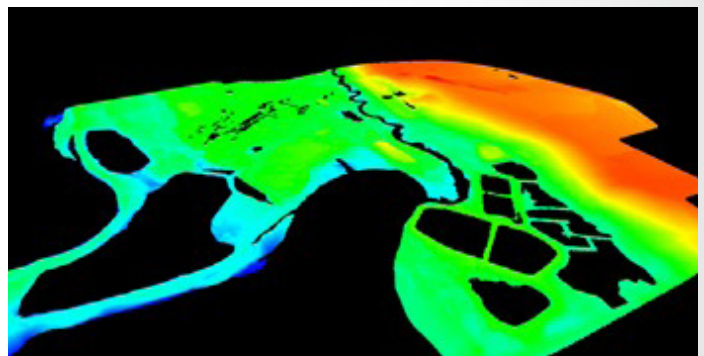
3D asset models



Structure inspections



Lidar modelling



Topographic surveys (DTM)