

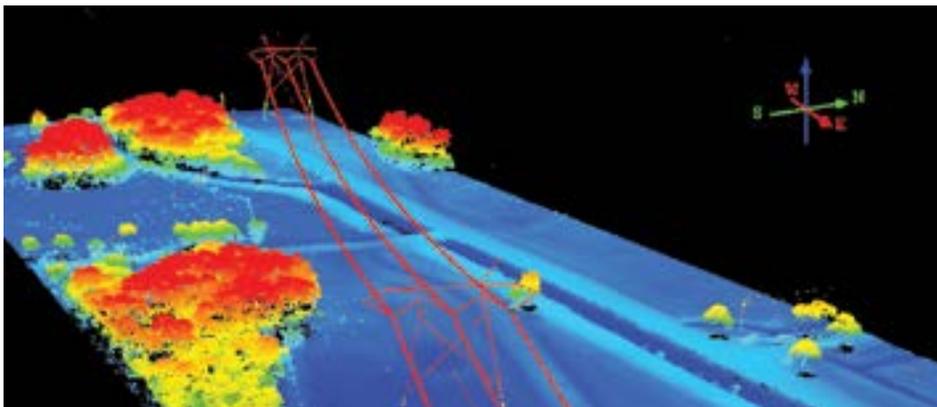
AMPLIFY™

The intelligent imagery management system

Gain new perspectives on your network infrastructure

As the utility industry expands their use of remote sensing technologies to improve operational efficiency, L3Harris Geospatial* continues to advance its technology to support asset management, vegetation management and emergency response. L3Harris leverages its core data management, machine learning and geospatial analytics technologies developed over a period of more than three decades to deliver critical business answers to utilities of all sizes.

A utility-centric focus enables L3Harris to integrate big data and image science to revolutionize the way electric T&D utilities inspect and maintain their assets, with a goal to help improve safety, increase cost effectiveness and improve reliability. At the core of these solutions is Amplify™, an end-to-end solution with utility specific modules that manage and leverage remotely sensed data to help utilities solve many of their most pressing business problems.



AMPLIFY CAN HELP YOUR ORGANIZATION WITH:

- > Asset management
- > Vegetation management
- > Emergency response and storm restoration
- > Site assessment and planning

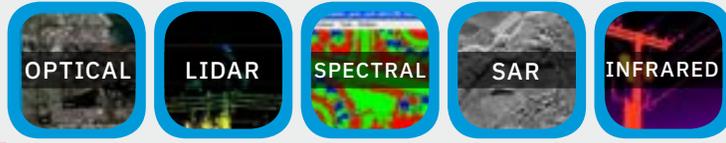
BENEFITS OF AMPLIFY:

- > Optimize Costs
- > Improve safety
- > Ensure reliability
- > Customer satisfaction

Amplify

Acquisition Platform

- > UAS
- > Small Sat
- > Helicopter
- > Satellite
- > Fixed-wing
- > Terrestrial



REMOTE SENSING DATA MANAGEMENT

ANALYTICS ENGINE

UTILITY INSIGHTS AND WORKFLOWS

Deploy in cloud
or on-premise

RENEWABLES INSPECTION DISTRIBUTION INSPECTION STORM ASSESSMENT TRANSMISSION INSPECTION VEGETATION MANAGEMENT

Integration API

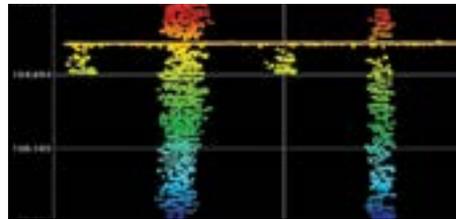
- > Asset Management
- > Work Management
- > Outage Management
- > GIS

Asset management

L3Harris works with our partners to collect data to map your network. Mapping network assets provides a complete and accurate record of the as-built T&D infrastructure to downstream systems such as GIS, work management and asset inventory.

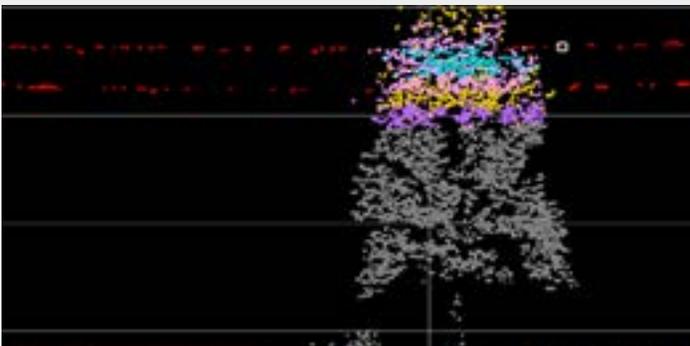


Leveraging UAS-based imagery, L3Harris' deep learning technology can detect anomalies on assets such as missing or damaged components, pole split/rot, bird's nests or other animal infestation, lightning strikes, corrosion or rust.



Using LiDAR data, clearance information on overhead T&D infrastructure can be calculated with L3Harris technology to support minimum clearance zones between communications and electric spans as part of a joint use management plan, as well as identify potential NERC clearance violations with nearby structures. These insights can be delivered to GIS to get a clear picture of surrounding infrastructure such as under wire crossings, roads, water features, slope and other clearance issues.

Vegetation management



Vegetation management represents the largest preventive maintenance expense for utilities while also being the most significant contributor to system reliability. While traditional vegetation management practices are time consuming, costly and not always accurate, there is increasing pressure to come up with new mitigation approaches to deal with increased threats of wildfires and system outages. L3Harris offers data management and advanced analytics to automatically identify areas of potential encroachment on the ground, along conductors or at the pole top. Amplify can calculate the volume of tree trimming required which benefits utilities by validating labor and equipment costs for work performed, and also enables utilities to pay for remediation based on per cubic foot instead of per circuit mile.

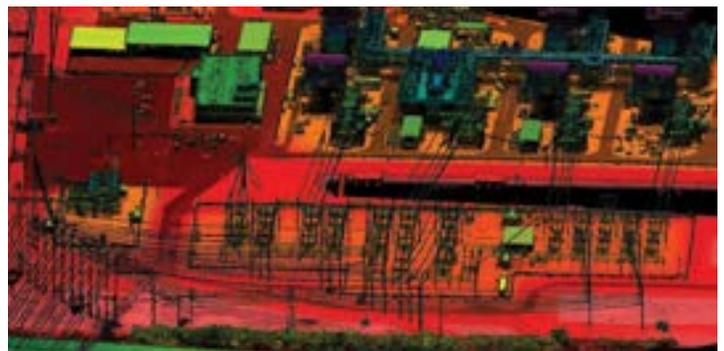
Emergency response and storm restoration

In today's economy there is zero tolerance for an electrical outage, regardless of the severity of a natural disaster. Having a comprehensive record of T&D infrastructure is imperative in order to quickly assess damage with a clear path to the restoration target. L3Harris provides data and solutions to assess damage and quickly formulate a restoration plan.



Site assessment and planning

Remote sensing technology is invaluable in the site assessment and planning process, and L3Harris provides a range of solutions to control costs and reduce risk to the business. Early in the corridor planning process, it's important to accurately evaluate the terrain, taking into consideration impacts to the environment, private land owners and regulations. From a maintenance perspective, the ability to analyze sites and respond to changes in environmental and geographic characteristics creates efficiencies in field operations.



ANALYTICS. INSIGHTS. ANSWERS YOU CAN TRUST.



Data collection

To enable system-wide network management, it is necessary to start with information and a complete view of the T&D infrastructure. L3Harris will work with our partners to collect data to map your network, extracting detailed information on pole and wire assets. We can collect LiDAR, imagery, video, thermal or spectral data.

Data management

As utility companies capture and consume more remotely sensed data, establishing a centralized data management system is core to the foundation of their business. Users throughout the organization need quick access to the right data to make informed decisions, whether it is to monitor the state of infrastructure, mitigate vegetation risks or respond to natural disasters.

Data analysis & insights

L3Harris' utility solutions are based on years of imagery expertise and our technology is designed to deploy any number of analytics, including image classification, multi and hyperspectral analysis and LiDAR feature extraction. These capabilities are brought together in the form of utility-specific workflows, allowing a utility of any size to take advantage of the power of L3Harris' remote sensing analytics without requiring a staff of image scientists.

Utility-specific workflows for:

- > T&D inspection
- > Vegetation management
- > Site assessment and planning
- > Emergency response

Advanced Asset Management Solutions for Utilities

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L3HARRIS™
FAST. FORWARD.

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