Automated Asset Inspections

required.



Benefits of Utilizing Drones

Accessibility and Cost

• Inspect transmission and distribution lines, substations, and other assets located in complex environments easier than traditional inspection methods.



Safety and Efficiency

• Inspect critical structures and components without putting personnel at risk with the drone's zoom capabilities for both visual and thermal inspections. 3rd party sensor payloads also available, i.e. corona discharge detection.



Documentation

• Monitor potential risks and the gradual changes over time to ensure data collection consistency through repeatable automated flight missions.







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Utilities

USA-BASED SOLUTIONS



Digitalization



Benefits of Utilizing Drones

Data Quality

• View assets in depth as you would in real life through the digital twin.



Accessibility and Cost

• Teams will benefit from a higher level of detail compared to typical ground or helicopter data collection methods.



Documentation

• Keep GIS databases (such as ESRI or Autodesk) up to date with precision 2D / 3D models and easily plan for future projects.



Vegetation Management



generate report.

Benefits of Utilizing Drones

Data Quality

also available.

• Teams will benefit from a higher level of detail compared to typical ground or helicopter patrols. Thermal imagery can quickly identify hot spots. Lidar sensors can provide comprehensive data sets. Multispectral data can detect plant health anomalies unseen to the naked eye.

Reduced Risk

• Crews can get a close up view of potential defects without climbing, using a bucket truck, or chartering high cost helicopters.

Documentation

• Monitor the gradual growth or changes on vegetation and calculate potential risks. Ensure data collection consistency through repeatable flight missions.







Other Applications

Workflow

Storm Response / Security Monitoring / Line Pulling



Fast Analysis Livestream what the drone sees and make instantaneous decisions

02

Save Manpower

03

Reduce personnel and save time by using drones to help pull lines.

Benefits of Utilizing Drones

Storm Response

• Using drones allow instant accessibility, especially to areas that may be blocked by hazards from the storm. Drones can collect information that can safely speed up reconnaissance and help you send the right equipment and personnel to the right location in order to restore power as efficiently as possible.



Security Monitoring

• Quickly deploy drone from DJI Dock to monitor and identify any intrusions or threats on premise.



Line Pulling

• Drone solution takes 8 minutes while traditional methods can take hours. Personnel can set up the drone with lines from the ground and don't need to pull from the structure.

