

SHARPER SHAPE CORE

CLOUD OPTIMIZED REMOTE EVALUATION

SHARPER CORE, THE INSPECTION & ASSET MANAGEMENT PLATFORM FOR UTILITIES

TURNING DATA INTO KNOWLEDGE

Seamlessly supports drone and helicopter aerial inspections

- CORE applications are ideal for the Sharper Heliscope 2.0 multi-sensor system
- CORE Pilot flight planning software enables autonomous drone-based inspections

Automated inspection analysis utilizes multi-sensor fusion for

- Vegetation encroachments with measured attributes
- Environmental analysis for network safety
- Asset condition evaluation

Reporting

- Reports produced with customer specified attributes
- Inspection data is accessible to any web-connected user
- Customized reporting directly supports the customer's business processes

SHARPER CORE CAPABILITIES

- Risk identification to prevent unplanned interruptions
- Work order prioritization with optimized scheduling
- Liability management - full audit for inspection and maintenance
- Increased safety for inspections and the network environment
- Network documentation for:
 - Outsourcing
 - Regulatory compliance
 - Accurate network value assessment (RAB)
 - Updated network database (NIS)
- Key Performance Indicators for inspection and maintenance process optimization

USING UP TO DATE TECHNOLOGIES

- Cloud optimized analysis and visualization enables scalability
- Supports current and future data acquisition methods
- Web-based solution enables access to data from anywhere
- Software supports the best current technology and ensures compatibility with future sensor developments



PLAN & MANAGE AUTONOMOUS MANNED OR UNMANNED AERIAL INSPECTIONS



FUSE DATA TYPES & EVALUATE UTILITY CONDITION WITH A.I.-ASSISTED TOOLS



EXPEDITE REPORT GENERATION & INTERACTIVELY BROWSE OBSERVATIONS

SHARPER SHAPE
The global leader in automated aerial utility inspection

FEATURES OF CORE SOFTWARE

CORE consists of four modules that are all accessible from a common user interface. The application is web-based, so all users work on the same project data in a collaborative environment. Changes made by one authorized CORE user is seen in real time by all other logged-in users. Managers track the progress of field work directly from their desktop or mobile device, no matter where in the world they are.

- Provides a GIS map-based interface to generate & track the progress of inspection orders
- Automatically creates inspection flight plans for Sharper Shape's Consolidated Linear Inspection (CLI) & Automatic Detailed Inspection (ADI) operations
- Managers in the office and flight teams in the field can utilize *Sharper Pilot* throughout the inspection process on virtually any mobile or desktop device



Software for planning & tracking UAS or manned helicopter inspection operations. Enables fully autonomous drone flights.

SHARPER PILOT

- Automatically georeferences & assigns all data types to each structure & line segment
- Provides tools to rapidly zoom, pan, adjust exposure & create marks & annotations for all data types
- Generates icons representing the position and altitude of the aircraft for each captured image – adds context to close-up photos
- Tracks the progress of the evaluation process & makes it visible to all logged-in personnel

Environment with AI-powered tools to help inspectors rapidly evaluate assets, identify defects & create reports.

SHARPER INSPECTOR



A secure on-line application to review data on any desktop or mobile device running a modern web browser.

SHARPER VIEWER



- Inspection assets are shown on a map that correlates images with specific utility assets
- Enables images to be pulled and reviewed sequentially or selected from thumbnails of all images captured per asset
- Provides tools for reviewing issues that have been automatically & manually identified in the *Sharper Inspector* application

SHARPER ANALYZER

A set of AI algorithms to analyze LiDAR data & automatically locate danger trees & vegetation issues.

- Capable of automatically recognizing system components & identifying maintenance & risk issues
- Includes the company's flagship automatic LiDAR analysis algorithms for vegetation management analysis
- Features Automatic Issue Detection (AID) for AI-enhanced analysis of visual data types. AID learns over time, increasing its ability to identify defects with each analysis operation.



C.O.R.E.

Cloud-Optimized Remote Evaluation

For more information, please visit www.sharpershape.com

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