



# Gridn<sup>⚡</sup>ostic

## Grid Reliability Through Image Intelligence

Introduced by OFIL

Powerful AI enhanced platform that elevates

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## COMPANY OVERVIEW

OFIL Systems has been a leading provider of inspection systems in the high-voltage markets since 1993 and stands at the forefront of tackling the growing challenges in electricity.

OFIL Systems' cutting-edge Gridnostic platform elevates Grid inspection capabilities and is designed to revolutionize how electrical utilities manage and maintain their electrical assets, ensuring reliability, efficiency, safety and cost saving.

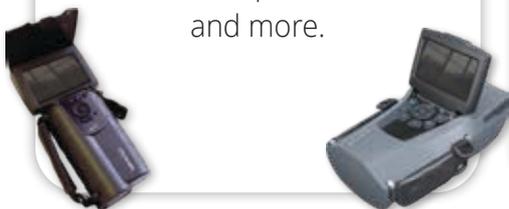
## Our Inspection Solutions

### Handheld Cameras

UVollé  
Luminar HD

#### Applications:

Inspection of transmission & distribution lines, substations, transformers, rotating machines, EV motors, HV components and more.



### UAV (Drone) Camera

micROM HD

#### Applications:

UAV inspections for transmission & distribution lines, substations and railway overhead lines.



### OEM & Core Cameras

UV Eye  
UV Eyclite  
UV EyeScope

#### Applications:

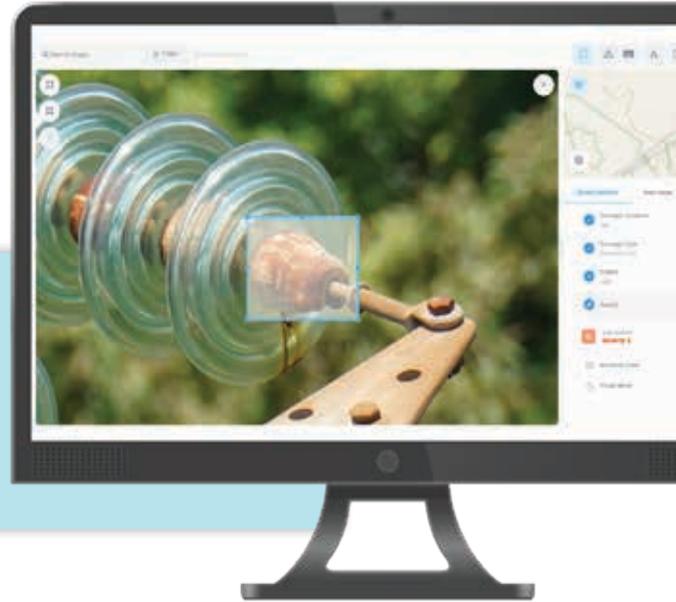
Vehicle mounted systems, robot-mounted, train-mounted, continuous monitoring of substations, fixed and PTZ installations, integration in OEM systems and more.



# ABOUT THE PLATFORM

EPRI

This product was developed based on research and guidelines from the Electric Power Research Institute (EPRI)



## Diagnostics Capabilities

The platform converts complex imagery data into clear numeric severity scores, delivering actionable insights for efficient asset health management.



## Multi-Sensor Integration

Leverage multi-sensor technology including RGB, Thermal and UV to enhance analysis capabilities.



## GIS-Enhanced Platform

Integrates all inspection data within a geospatial context, offering a strategic, map-based overview of grid health.



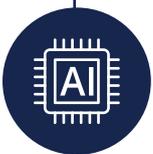
## Asset-Based Data Management & Reporting

Efficiently manage historical data and enhance communication with sharing and reporting capabilities.



## Software Integration

Ensures smooth workflow continuity by interfacing seamlessly with existing ERP systems.



## AI Capabilities

Enhances data analysis through the integration of AI models.



## Expert Advice & Diagnostics

Backed by years of industry knowledge, receive expert advice and diagnostics to solve problems faster.

# MULTI SENSOR & **PLATFORM SUPPORT**

## Comprehensive Sensor Integration

The platform is compatible with **Visual RGB, Thermal and UV sensor data**, either used individually or in combination. All collected data is utilized within the platform for in-depth analysis and informed decision-making.

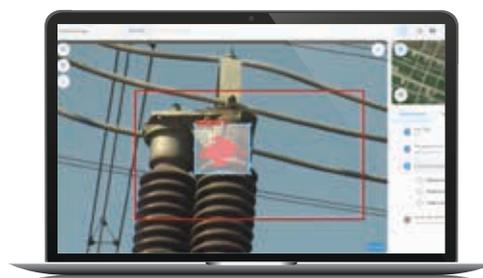
RGB



Thermal



UV



## Cross-Platform Support

The system is designed to work seamlessly across a wide range of inspection platforms

Handheld  
cameras



Vehicle-  
mounted



Continuous  
monitoring  
cameras



UAV



Robotic  
platforms



# SMART MAINTENANCE PRIORITIZATION

Gridnostic enables data-driven maintenance prioritization by combining two assessment dimensions:

**Component Condition** - derived from inspection imagery and sensor data.

**Asset Risk & Impact** - based on the asset's operational role, criticality, and environmental GIS context.

These factors are used to calculate a severity score that supports informed decision-making and optimized resource allocation.



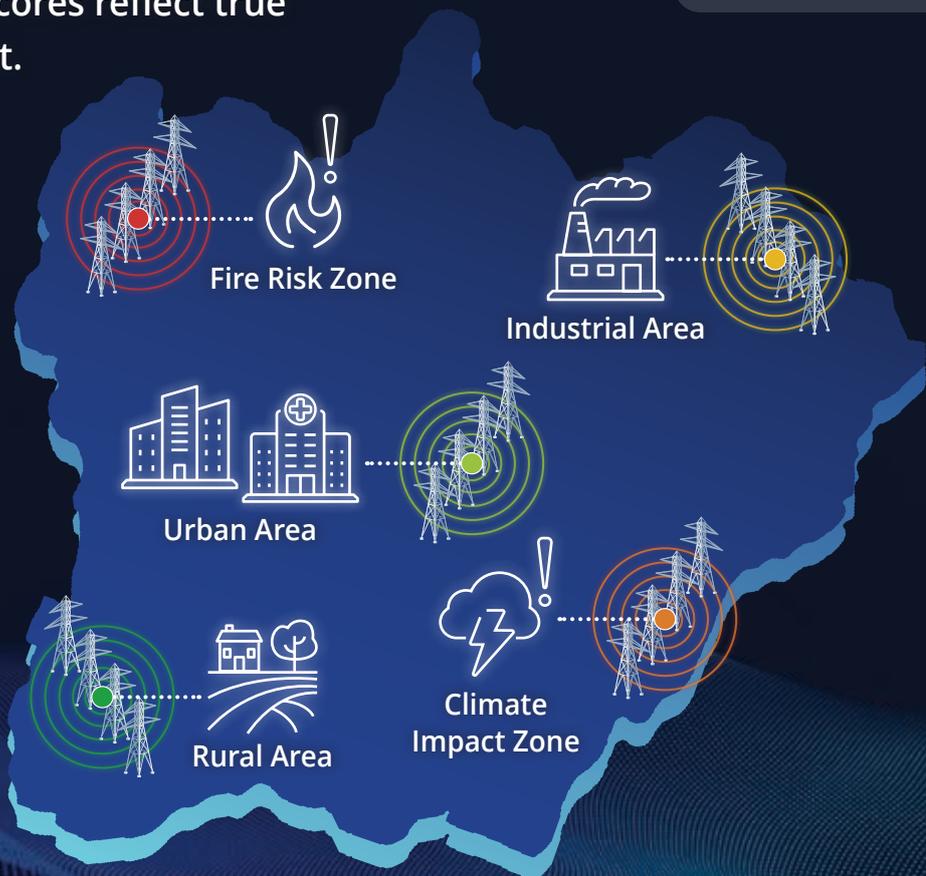
## Risk & Impact Analysis

### GIS-Driven Insights: See the Full Picture

Gridnostic connects inspection data to risk - assessment maps, adding real-world context to every finding. By combining fault data with GIS parameters - the platform ensures severity scores reflect true operational impact.



**Risk level**





### Intelligent Decision-Making:

Features a severity analysis that prioritizes issues based on their potential impact, incorporating comprehensive asset health management.



### Overview Mapping:

Offers a comprehensive visual representation of asset health across the entire grid.



### Diagnostics Capabilities



### Consistent and Reproducible Results:

Minimizes human error to ensure uniformity and consistency across evaluations.



### Expert Guidance:

Includes access to expert-built models and consultations, developed from extensive research and practical experience, for handling complex cases.

## EPRI - Based Severity Levels



- 1 No action required.
- 2 Fault may be decreasing component life. Monitor for further damage or address the complaint.
- 3 No immediate action is required; however, heightened vigilance is advised. Engage with internal experts and stakeholders for a detailed assessment.
- 4 Damaged or degraded component, replace or repair at the next opportunity. Damage will not affect short-term safety or reliability.
- 5 Component poses a risk to either the safety or reliability of the system in the short term. Remove ASAP.

# Severity Diagnostic Tool

## Turning Images into Decisions

The Severity Diagnostic Tool transforms inspection imagery into consistent, numerical severity scores - eliminating subjectivity and streamlining asset health management.

**EPRI**

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### From Visual to Quantitative

Inspection data from RGB, thermal, and UV sensors is converted into actionable condition assessments

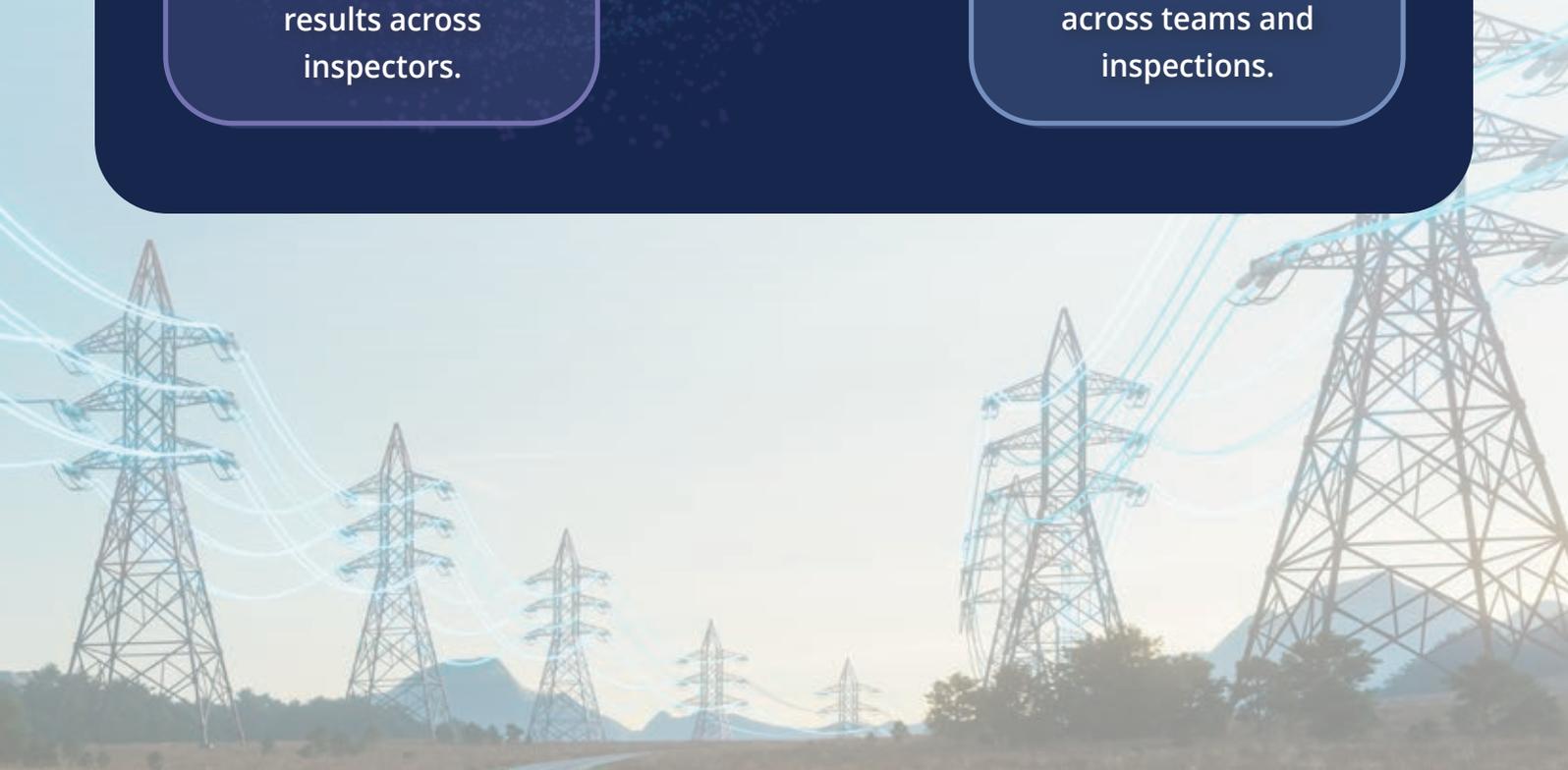
**Grid Reliability Through Image Intelligence**

### Consistent, Reliable Results

The tool guides users through a structured evaluation, where each step influences the next - reducing bias and ensuring consistent results across inspectors.

### Faster, Confident Decision-Making

By standardizing assessments, the tool speeds up workflows, enhances accuracy, and supports confident maintenance decisions across teams and inspections.





Gridnostic



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