

GRID VISION®

Transforming the way the world's leading energy providers inspect and maintain critical infrastructure.



Energy Transition



Reliability

92%

of outages on distribution systems are caused by aging infrastructure, severe weather events and vandalism.

Aging workforce

25%

of the utility workforce in the U.S. will retire in the next 5 to 10 years.

Aging infrastructure

70%

of transmission lines & large power transformers in the U.S. are more than 25 years old.

33%

of distribution grids in the EU are more than 40 years old.

Management and maintenance of the grid infrastructure is more crucial than ever, with increase of renewables, aging infrastructure and shifting of loads straining the grid.

Challenges With Traditional Overhead Line Inspection



Expensive



Dangerous



Time Consuming



Environmentally Unfriendly



Typically, regulation requires that overhead lines must be inspected in different cycles, ranging from over 2 years to every 15 years.



Asset images are hard to manage, control, and analyze.



Utilities waste time and money by inspecting assets that don't need to be inspected and missing out on identifying higher risk assets.

Introducing Grid Vision® Inspection Management

Purpose-built

AI-supported

One single platform

Hardware Agnostic

One of the largest AI libraires

Empowering utilities to transition to virtual and predictive asset inspections.

100,000+ km

of T&D lines have been inspected.

3+ million

images annotated.

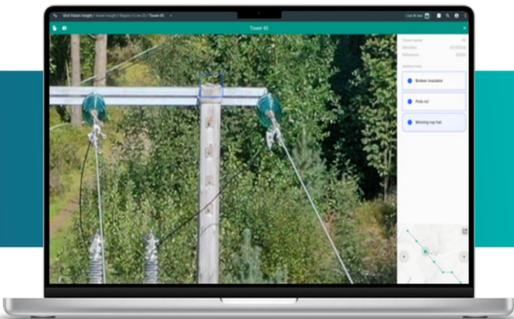
30+ AI models

building one of the largest classified datasets on the market.

40+ utilities

globally are working with Grid Vision.

Our asset-centric approach connects data to assets, to organize defects and provide actionable insights to enable more efficient grid inspections, reduced failure rates, reduced costs, safer inspections and extended asset life.



Grid Vision enables utilities to achieve improved efficiency, greater accuracy and consistency within their overhead line inspections.



Accelerate defect detection and inspection workflows.



Reduce cost and manual effort of inspections.



Increase safety for inspection operations.



Catalog asset inventory more accurately.



Easily perform post-construction validation.



Identify high risk / low-occurrence defects.

40% reduction per year in overall line inspection expenditure.

2.5x more critical defects are discovered versus manual methods.

1,000x more images analysed per hour versus manual review.

WORKING WITH UTILITIES TO BUILD THE FUTURE OF GRID ASSET INSPECTION THROUGH PREDICTIVE MODELS

Find out more at esmartsystems.com