



## eSmart Systems is transforming the way the world's leading energy providers inspect and maintain critical infrastructure

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Many of today's critical infrastructure inspection processes are manual, slow, and expensive. Data and images are manually processed, resulting in defects that increase risks and costs because they are not detected in a timely manner.

### **Actionable asset insight**

eSmart Systems' Grid Vision™ leverages AI and industrial grade deep learning to turn images and visual inspection data taken from any source into actionable asset insight. Image data can be turned into annotated asset records, allowing unprecedented planning and remediation of critical infrastructure assets.

The results are transforming the way energy providers inspect and maintain critical infrastructure, reducing operating expenses, improving safety, extending asset life, increasing reliability, and enabling the speed of defect detection.

### **Collaborative AI**

eSmart's AI Collaborative Intelligence approach facilitates a collaborative approach between subject matter experts and AI for analysis of images and other inspection data, so any energy provider can get started wherever they are in their journey.

## Grid Vision™ Results

Grid Vision™ helps key executives and operators to reach better decisions faster and at a lower cost.

80%

Reduction in time spent reviewing inspection data with the use of Grid Vision™<sup>1</sup>

1000X

Volume of images analyzed by Grid Vision™ vs manual review.<sup>2</sup>

2.5X

Number of certain critical defects discovered by Grid Vision™ vs a human<sup>3</sup>

1. Estimate made by an engineering firm, specialized in maintenance of electrical grids, currently using Grid Vision™
2. Processing test together with Microsoft in 2018
3. Benchmarking test conducted by a large European Distribution System Operator

## Value For Our Customers

With Grid Vision™'s ability to automatically build up the asset inventory and detect defects, our customers:

1. **Improve the efficacy and efficiency of inspection work** by facilitating the ability to turn image data into annotated asset records
2. **Enhance reliability** by acting on problems before issues arise
3. **Increase safety** by leveraging alternative inspection methods to keep people out of harm's way
4. **Optimize capex** by shifting time-based O&M to project-based capital
5. **Enable regulatory compliance** by transforming image data into extensive, current documentation of the grid

## About eSmart Systems

eSmart Systems builds and delivers the next generation software solutions for inspections of power lines and grid maintenance planning. In 2019 eSmart Systems raised \$35M in funding to accelerate its growth in the US and Europe, focusing on opportunities to revolutionize inspection and asset management for electric utilities.