GRIDVISION®

Powered by eSmart SYSTEMS

Leading Utilities Worldwide Into the Digitalization Era

The length of the global power grid is estimated to be **80** million km.

ENERGY TRANSITION

80

million km in grid growth by 2050*

$21.4

trillion to be invested in grid by 2050*

$5.1

trillion of digitalization investments by 2050*

Managing, inspecting & maintaining the grid infrastructure is more crucial than ever.

CHALLENGES WITH TRADITIONAL OVERHEAD LINE INSPECTIONS

- Expensive
- Dangerous
- Time Consuming
- Environmentally Unfriendly

Typically, regulation requires that overhead lines must be inspected over 3, 5 or 10 year cycles.

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

Utilities need to reduce their operations and maintenance costs while keeping the grid safe with security of supply to their customers.

INTRODUCING GRID VISION®

- **Purpose-Built**
- **Mature World-Leading AI**
- **Proven Experience**
- **Hardware Agnostic**
- **Image-Based Digital Asset**

VALUE DELIVERED TO CUSTOMERS THROUGH OUR VIRTUAL INSPECTIONS

Grid Vision® has successfully transitioned utilities globally **from innovation to operations** saving **OPEX** with a **faster**, more **efficient** and **accurate inspection process**.

Inspection Efficiency

60% more defects detected

Time Efficiency

8x faster inspections

Cost Efficiency

30% OPEX

savings of €50+M/year

Cost Efficiency

>95% CAPEX

of total program costs

VALUE DELIVERED BEYOND THE VIRTUAL INSPECTION

Utilities can **unlock value** beyond the inspection by utilizing the **structured image-based digital asset** within Grid Vision® that represents the physical grid.

Reduced Verification Field Trips

- Reduced O&M
- Time savings
- Improved safety

Access To Physical Grid From Desk

- Reduced O&M
- Knowledge retention
- Improved safety
- Quality reviews

Regulatory Compliance

- Reduced risks
- Improved reporting
- Improved safety

VALUE DELIVERED TO MULTIPLE DEPARTMENTS

Maintenance, Network Planning, Asset Management, Asset Strategy, Engineering, Siting Land Rights, Field Operations

- Inspection schedule optimization
- Foreign objects
- Capital planning
- Tower access points
- Identification of assets at risk
- Vegetation management
- Right of way
- Improved planning by considering urgency vs necessity
- Common vulnerability

GRID VISION® CONTRIBUTES TO RISK MITIGATION AND INVESTMENT PLANNING THROUGH ENRICHED VISUAL DATA.

NEXT GENERATION PLATFORM FOR ASSET INTELLIGENCE

CENTRAL DATA HUB FOR ASSET CONDITION

GLOBAL, CROSS-UTILITY ASSET CONDITION DATABASE

Supporting a more resilient, reliable power grid that will serve future generations.