

GRID
VISION®

Asset Information Management

Asset Information Management

Utilities often lack a **complete and current digital picture** of their physical assets.



Today's Environment

Asset management and maintenance of the grid infrastructure is more crucial than ever, with an increase of renewables, aging infrastructure and shifting of loads straining the grid. Utilities often lack complete digital models and visual-based view of their infrastructure assets.

The quality of the asset information in core IT systems is often questionable. Asset information can be residing in multiple sources with limited visual-based view of the assets. Existing visual documentation tends to be unstructured and not easily available.

This gap and lack of quality in asset information has a direct impact on:

- Asset management decisions including maintenance and investment decisions
- Outage and response time to critical events
- Meeting regulatory requirements and customer expectations
- Wasted time on locating the correct asset information
- Delays and challenges in digitalization projects

Grid Vision® empowers utilities with trustworthy data on their digitalization journey.

Customer Case Studies

The power of having the right data

Ability to prevent substation failures within hours with no field visits required.

European TSO was able to utilize data from Grid Vision® to identify 42 substations out of 22,000 that were impacted with an asset that could cause a substation failure.

2 year payback on asset digitalization investment.

European DSO, forecast an annual saving of €750K by utilizing Grid Vision® to improve the data quality for substations, and optimize their operations & maintenance across their 130 substations.

Our Solution

Building and visualizing accurate digital assets to manage the physical grid

We provide utilities with a digital representation of their physical assets by processing imagery and documentation to extract and store asset data in one central location.

By combining asset information management experts and Artificial Intelligence (AI), the Grid Vision® portfolio of solutions significantly uplifts the data quality utilities require to improve their asset management decision making, and improve efficiency in maintaining the entire grid.

Our solution provides customers with:

Validated, Available Data

Improved quality, accuracy and currency of asset data available to the decision makers in utilities.

Digital Knowledge Base

Our digital knowledge base has been built over the last 20 years and enables us to quickly process the images into data and fill in the gaps.

Increased Resiliency

By keeping asset documentation up-to-date and structured, potential risks and failures can be identified quickly, without additional field visits.



Industries we serve:

Power Generation, Transmission and Distribution Utilities.



Grid Vision® Asset Digitization

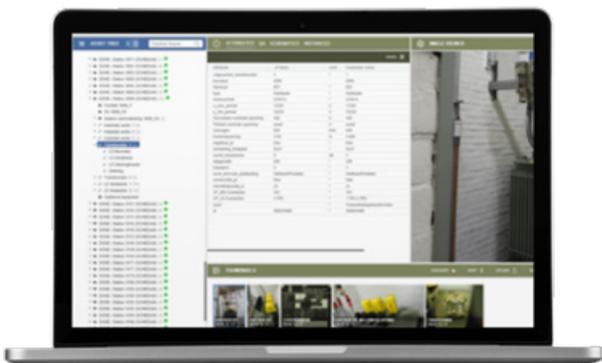
Data Capture & Processing

Empowering utilities with trustworthy asset data.

By leveraging our asset information experts, the condition of substations are captured through asset documentation, imagery and inspection data.

AI-powered software then processes and structures the information with a complete audit trail and ensures objectivity while the data is validated. With Asset Digitization data quality is increased significantly and can be utilized to:

- Improve public and workforce safety
- Decrease outage risk
- Quicker response time
- Less uninformed field visits



Grid Vision® Asset Guide

Inventory Management

Centralized digital asset information and visual inventory.

With the uplifted asset related data available in one central location with digital representations of physical assets, utilities can:

- Improve critical business decisions
- Improve safety and efficiency in the field

Unlocking New Opportunities

Our solutions help you bridge the gap in your asset register and assist you in establishing trustworthy data. Working with our customers, we have proven the business value of having detailed, accurate, and up-to-date inventory and have seen them realize the following benefits once they start utilizing the improved data.



Reduced Field Visits

Access to more visual based data at your desk.



Confidence In Your Data

Correct information for regulator and auditors and improved asset management decisions.



Validated Asset Data

Enabling actionable decision-making of high-quality.



Improved Safety Training

Visual documentation for emergency and simulation training.



Complete Audit Trail

All data in one central data repository with visual documentation linked to asset data.



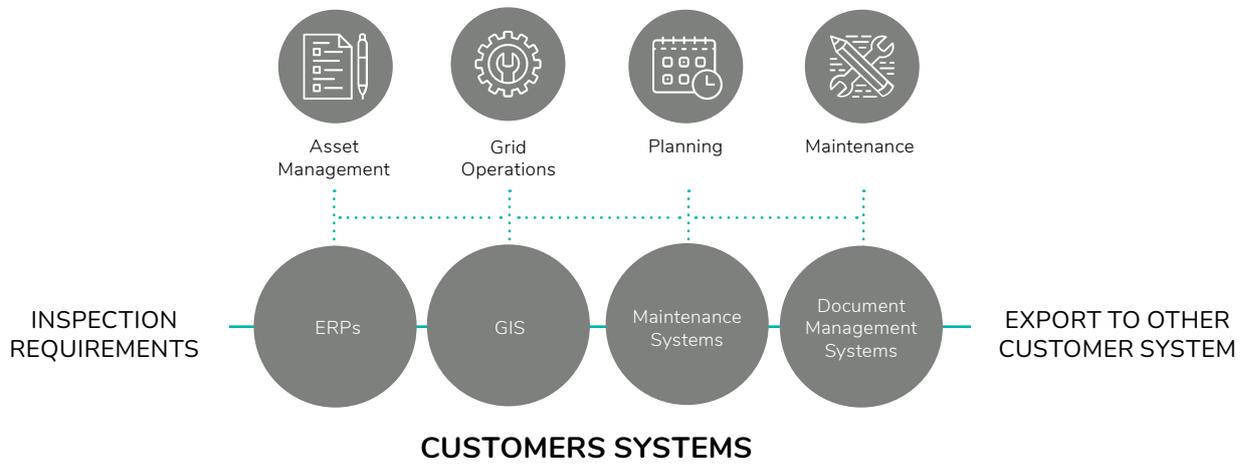
Reduced Unplanned Outages

Implementation of a data based maintenance strategy based on improved digital information on your assets.

Our Approach

We have an established methodology that has unlocked value to our customers. Our four-step process ensures that you get in control of your asset information and remain in control.

Grid Vision® methodology for uplifting data quality



Plan

Specify desired outcome and required data to be captured.

Capture

Field engineers capture data and images specified on Grid Vision® Mobile.

Analyze

Captured data is processed and digitized through industry-proven software with supporting AI.

Insight

Drill down into **asset data**, make ad hoc queries.



Grid Vision®
Asset Information
Experts



Grid Vision®
Mobile



Grid Vision®
Asset Digitization



Grid Vision®
Asset Guide

We help utilities **digitize** and **visualize** their asset data, providing a **complete** and **current digital picture** of their **physical** assets.



Customer Case Study

STEDIN.NET

Improving the quality of asset information

Stedin wanted to establish a trustworthy Asset Repository in their BM-GIS solution for all of their secondary substations.

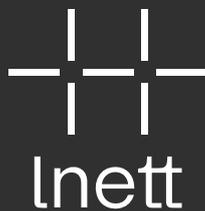
Solution: We have delivered updated and detailed asset inventory data, schematics, connectivity details and linked photo documentation for all secondary substations in line with Stedin's data model standards and business rules.

“This is our 4th attempt at trying to get our asset information updated. Colleagues who have been involved in the previous projects still don't believe it's going to work. That says something about how challenging it is.”

Thijs Janssen, Team lead, Asset Data Enrichment Team, Stedin



Customer Case Study



Improving asset information to meet regulatory requirements.

Lnett wanted to implement a yearly combined conditional assessment and inventory program to meet regulatory requirements and to establish a trustworthy and detailed Asset Repository in their asset management solution (SAP-PM).

Solution: We provided yearly conditional assessment results, verified and updated asset inventory and linked updated photo documentation for all secondary substations. We also provided a hosted version of our Inspection portal, this is an analysis solution combining asset data, historical conditional data and photo documentation.

“We’re very satisfied with the work Verico* has done for us. The authorities have stated that they haven’t seen any grid operator with better control of data and data acquisition than Lyse. That is thanks to Verico.*”

Frank Boholm, Head of O&M, Lyse Elnett

*Verico is now part of eSmart Systems.

Customer Case Study

Statnett

The future is electric

Improving the quality of asset data for primary substations.

Statnett wanted to establish accurate technical information on their primary substation assets for their IFS Documentation Management System.

Solution: We provided trustworthy digital sets of technical documentation, verified and updated Asset Inventory and photo documentation in line with Statnett's data model and documentation requirements.

“We are very pleased with the work Verico* has done for us. They have tools, expertise and work processes of the highest quality. In addition, they are concerned with continuous improvements and make adjustments to processes and methodologies continuously.”

Thomas Lyngstad, Head of Asset Information, Statnett

*Verico is now part of eSmart Systems.

Customer Case Study



Improving the Asset Inventory of primary substations.

Tennet wanted to establish a trustworthy Asset Inventory database in their ERP solution (IFS). They want to focus on all primary, secondary and tertiary assets in their primary substations.

Solution: We delivered structured assets, asset data (attributes/characteristics) and photo documentation. We provided our AssetGuide portal solution as a front-end to asset information in IFS and photo documentation.

GRIDVISION®

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www.gridvision.com