



# RailXplore Substation Analyzer



High transparency and insights into the overall health of the substation equipment to prolong their life-cycle, enhance system management, and reduced time in maintenance activities.

*RailXplore Substation Analyzer*

# Product Description

**RailXplore Substation Analyzer** provides a solution to the tedious and non-predictive maintenance activities of the substations. It benefits the users by providing live monitoring of diagnostic data of substation components and provides insights into their historical

## The RailXplore Substation Analyzer application

- ✓ Energy consumption overview
- ✓ Circuit Breaker insights and comparisons
- ✓ Fault record and event list
- ✓ Report management (download and view capability)
- ✓ Support service



health data. The transfer of data into the cloud enables possibilities of advanced analytics that lead to expediated intervention in case of irregularities, improved planning of maintenance and resources as well as transparency over your assets' status.

**RailXplore Substation Analyzer** connects all substations, stores and evaluates the collected data from connected field devices:



Data collection

- Field level (sensors, Trafo, CB)
- Station controller
- Control level center (SCADA)



CoreShield Connect

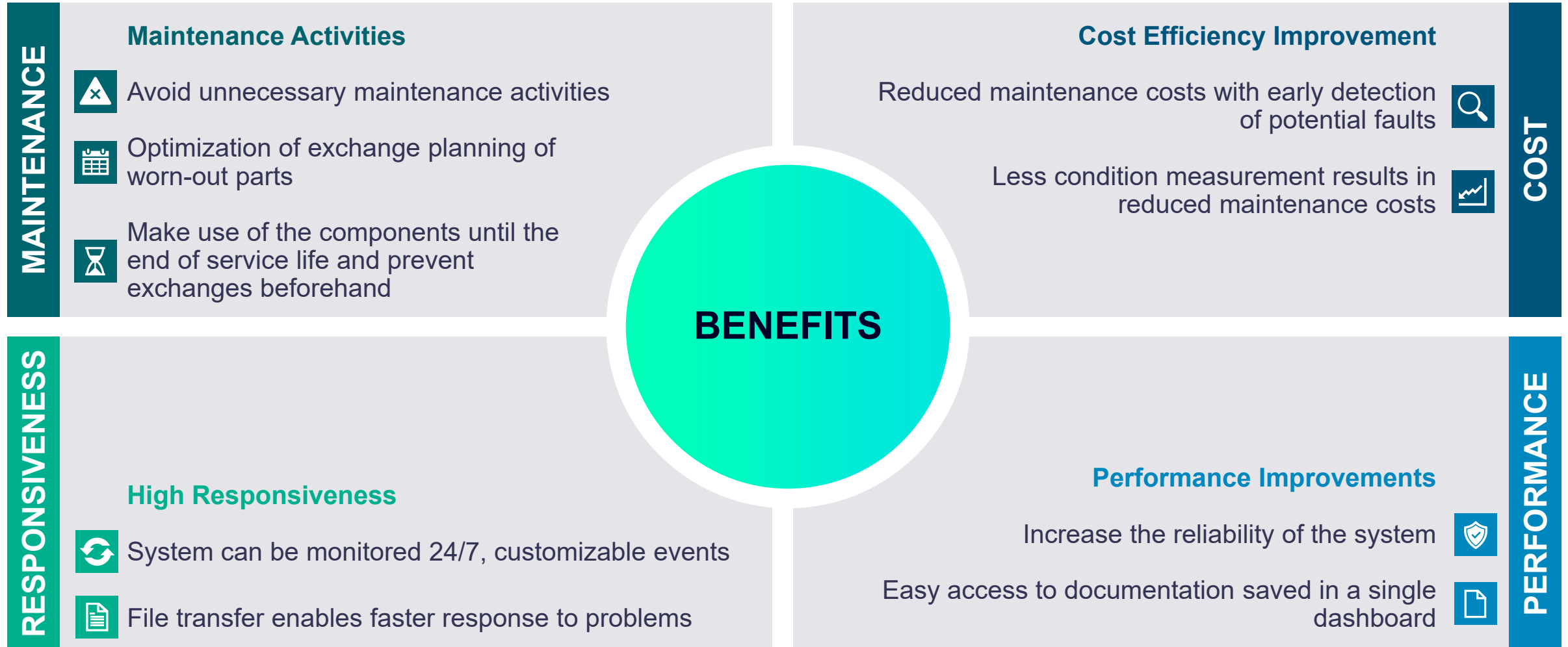
- Enable full IoT connectivity
- OPC UA and file transfer protocols



Cloud environment

- Siemens IoT app platform
- Secure and scalable end-to-end solution

# Benefits of RailXplore Substation Analyzer



# Key Functionalities

## Overview Dashboard

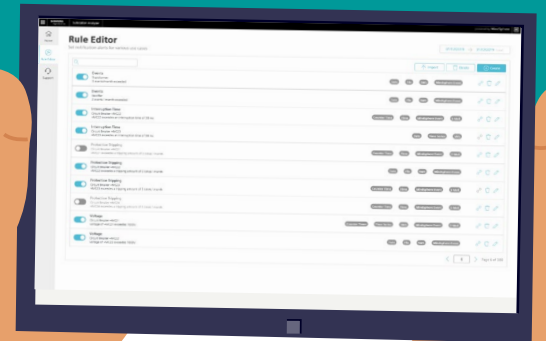
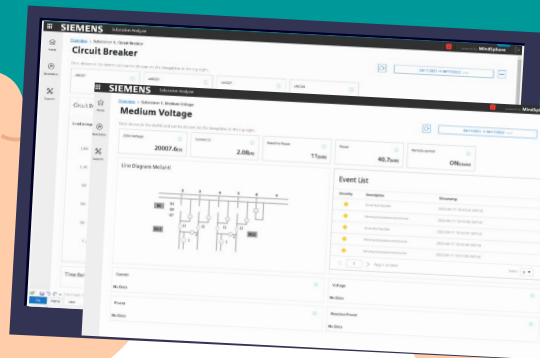
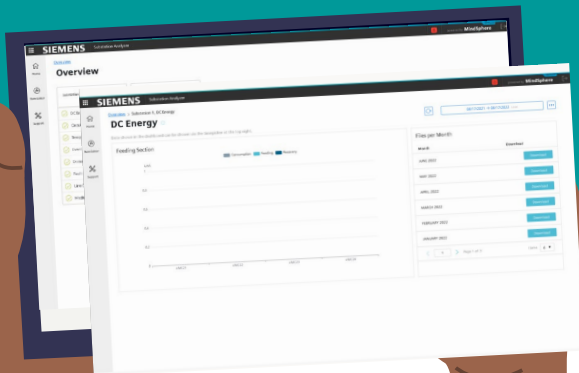
- Detailed view of key performance indicators (e.g., time and date filter)
- Access to data on laptop or mobile
- Access to substations information

## Key Assets Monitoring

- Monitor the health of substations
- Compare data from different times through the time picker
- Live data of key assets

## Rule Editor

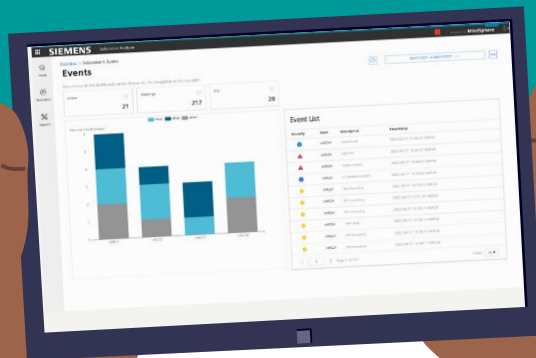
- Flexible and personalized data set
- Customize limits for every device with the rule editor
- Customizable fault record handling
- Easy download of reports



# Key Functionalities

## Events Information

- Increased maintenance efficiency through specifically planned inspections in accordance with the asset's health status
- Focus on the current status of important events
- Evaluate risks and prevent problems



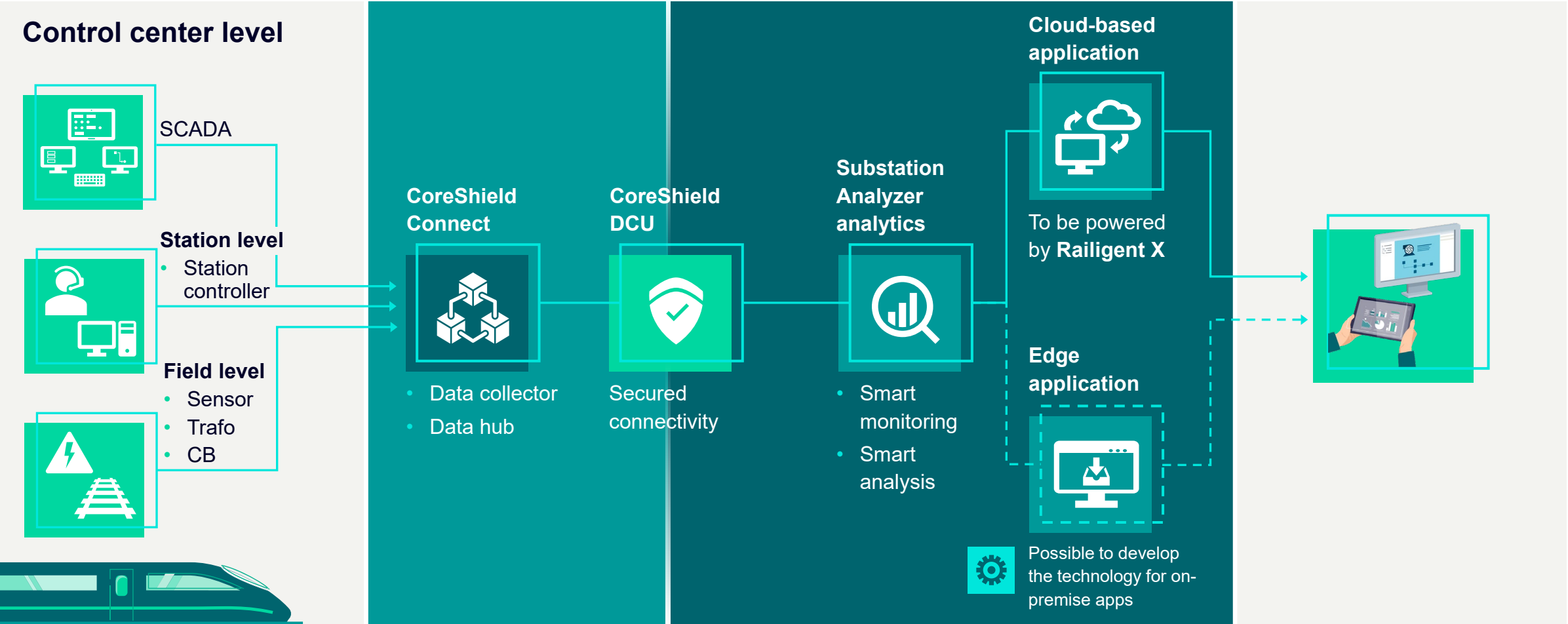
# System Architecture

## ➤ Data sources

## ➤ System connectivity

## ➤ Data processing

## ➤ Output front end



# References

## Helsinki, Finland

For a period of two years, **RailXplore Substation Analyzer** pilots on multiple substations of a customer in Helsinki, Finland.





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