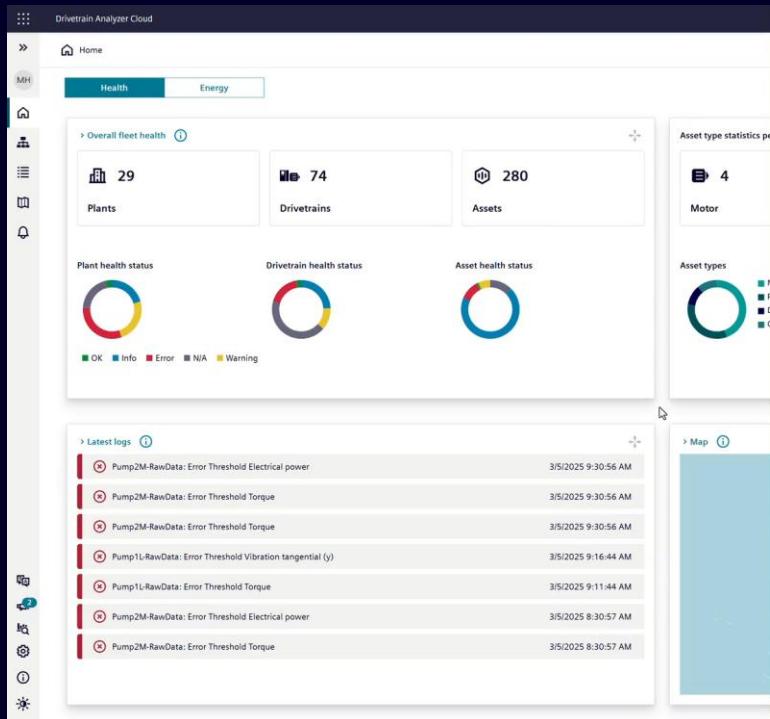


# Industrial AI: Transform the entire value chain

Deep dive: Optimize



# Generative AI today



The screenshot shows the Drivetrain Analyzer Cloud application interface. It features a top navigation bar with 'Drivetrain Analyzer Cloud', 'Home', 'Health' (selected), and 'Energy'. Below this is a summary section with counts for 'Plants' (29), 'Drivetrains' (74), and 'Assets' (280). It includes three circular dashboards: 'Plant health status' (OK), 'Drivetrain health status' (OK), and 'Asset health status' (OK). To the right, a sidebar shows 'Asset type statistics per asset type' for 'Motor' (4) and a 'Map' section. The main content area displays a 'Latest logs' table with entries for various pump components and error thresholds. The table includes columns for error type, description, and timestamp.

## Drivetrain Analyzer Cloud Operations Copilot Drivetrain Analyzer

**Talk to your data** with an intelligent conversational interface to the Drivetrain Analyzer Cloud application designed to improve transparency, efficiency, and sustainability, even for non-technical users



## Your generative AI-powered assistant for drivetrain optimization

### Challenge

- Shortage of skilled maintenance technicians
- Lack of knowledge of drives, motors and drivetrain equipment
- Overwhelming variety of failure possibilities and maintenance activities around the drivetrain

### Solution

Operations Copilot Drivetrain Analyzer is an intelligent assistant integrated into the Drivetrain Analyzer Cloud application, supported by AI. It can assist you and allow you to monitor, analyze, and optimize the condition and energy consumption of your assets.

### Value

- Improve maintenance activities and operational decisions
- Little to no knowledge required for effective energy optimization of the drivetrain
- Talk to your machine and drivetrain data to get instant insights

### Products and services

- Drivetrain Analyzer Cloud
- Connection Module IOT

# Generative AI today



## Senseye Maintenance Essentials

### Challenge

Loss of valuable knowledge when experienced engineers retire  
Difficulty sharing information across multiple sites due to language barriers in accessible data leading to fragmented, inconsistent sources of truth slowing down decision-making.

### Solution

- Copilot-guided workflows make onboarding simple and intuitive.
- Enables document uploads, event tracking, and guided insights without live data integration.
- Provides an affordable, scalable entry point to predictive maintenance for SMBs and smaller teams.

### Value

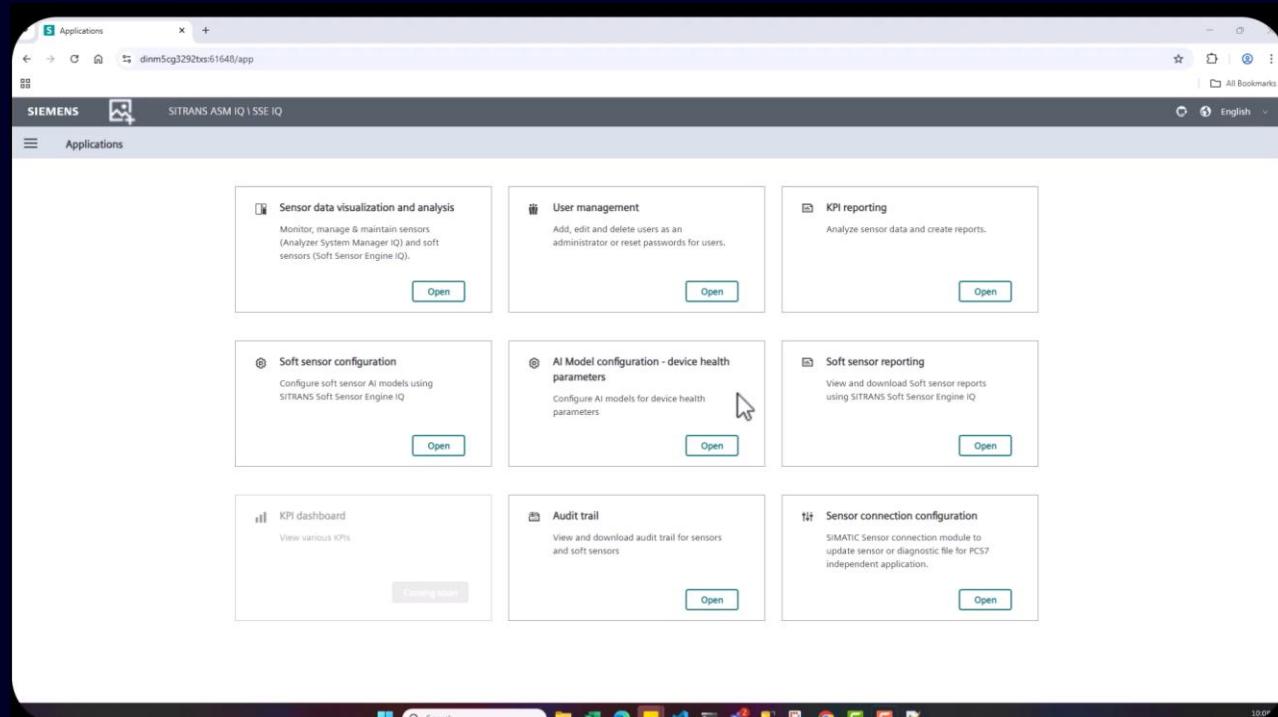
- Quick start with minimal IT overhead.
- Essentials can expand into full PdM as teams mature.
- Standardizes processes and preserves expertise.
- Reduced downtime and improved planning.
- Built on the same cloud infrastructure as enterprise PdM.

### Products and services

- Senseye Maintenance Essentials

**SIEMENS**

# Generative AI today



## SITRANS Soft Sensor Engine IQ powered by generative AI

### Challenge

- Physical sensors for precise measurements and process optimization are costly and limited.
- Secure, offline operation is essential for managing sensitive data.
- Time-consuming manual troubleshooting and root cause analysis.

### Solution

- Highly accurate AI-powered virtual sensors (soft sensors).
- Offline, on-premises operation with minimal hardware requirements and full data control.
- CoPilot for AI-assisted maintenance and troubleshooting.

### Value

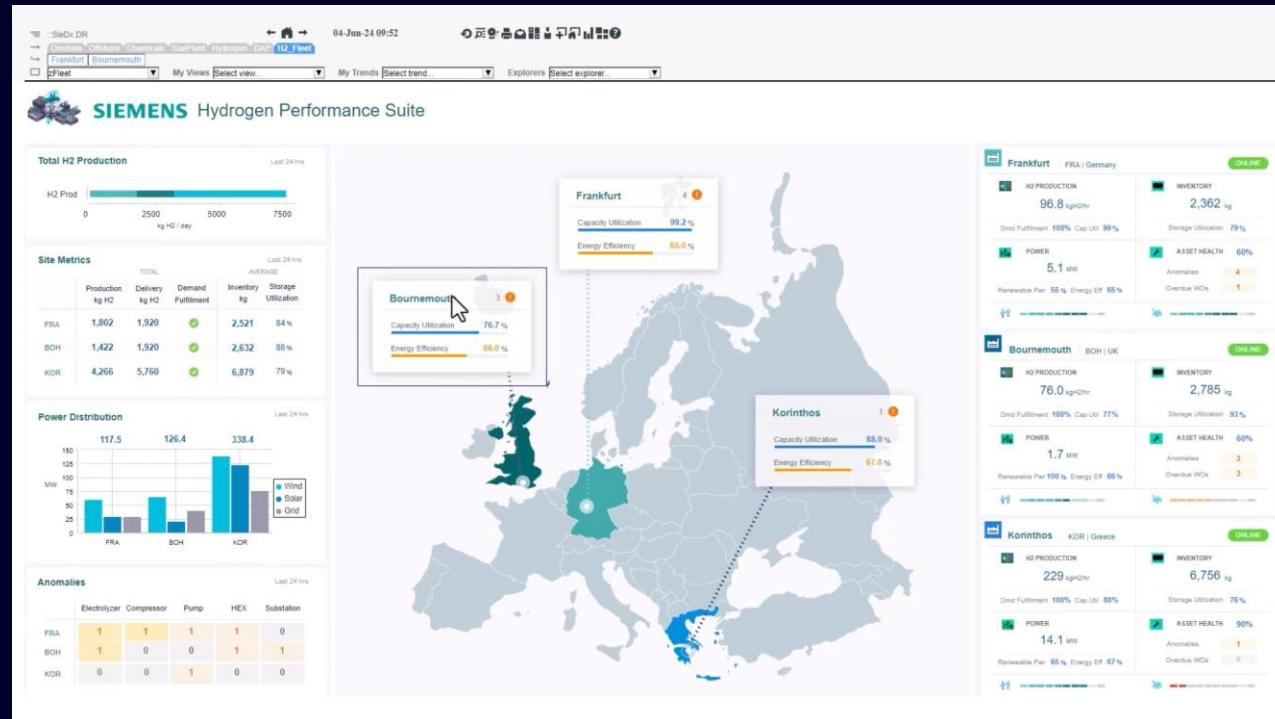
- Precise and highly available measurements.
- Low operating and initial investment costs, due to few hardware and computing requirements.
- Enhanced data security via offline operation and fast troubleshooting with Copilot

### Products and services

- SITRANS Soft Sensor Engine IQ

SIEMENS

# Predictive AI today



## Hydrogen Performance Suite

### Challenge

How to improve production efficiency, integrate multiple renewable energy sources and scale? Especially in green Hydrogen there is no constant availability of energy (e.g. solar or wind), but the operators have to run the production process continuously.

### Solution

Simulation software gPROMS Digital Applications is calculating KPI's in the background, based on modelling data and input from soft sensors. Combined with information from other sources (like energy prices and availability as well as live data from production) which is displayed through XHQ in an appealing manner, the plant operators and managers can predict the behavior and performance of the plant(s) to run and optimize it in real-time.

### Value

- Increase plant safety
- Optimize plant operations with predictive analytics
- Less unplanned downtimes
- Cost savings

### Products and services

- XHQ
- gDAP

**SIEMENS**