

FORUM  
INDUSTRIA  
DIGITALE

MECCATRONICA  
E SOFTWARE  
PER L'INDUSTRIA



**Tecnologie digitali al servizio della trasmissione di potenza:  
migliorare la gestione della produzione e monitorare le performance  
di macchina.**

**KEB Automation Italia**  
Stefano Berardi

Promosso da



**FORUMECCATRONICA**

forum  
Software  
Industriale



**ANIE**  
AUTOMAZIONE

In collaborazione con

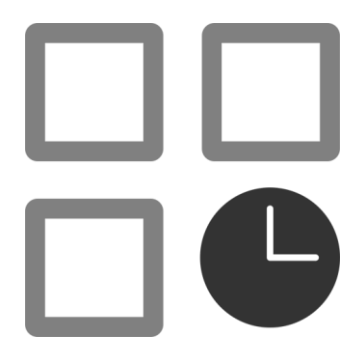


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# Yesterday focus on:



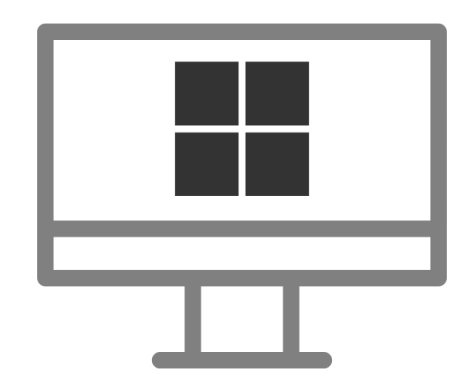
Real-time Applications in unique device



HMI Visualization with high number of functionalities



Vendor Lock System In hardware & software



WIN based OS System

# Today, what is relevant?



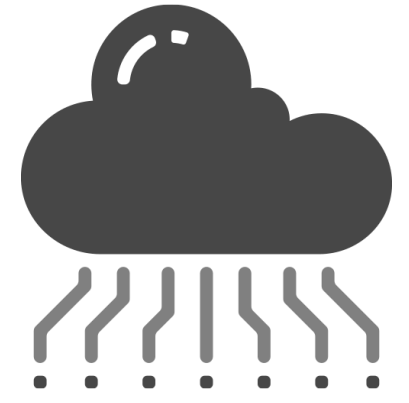
Fast Growing  
Open source  
System and  
Communication



Service-Oriented  
Architectures  
with all devices  
connected  
for the development  
Apps, services and  
cloud technologies (AI)



Reducing dependence  
on hardware and  
software platforms



Industry 4.0 IIoT  
for Data-Driven  
functionalities and  
decision making

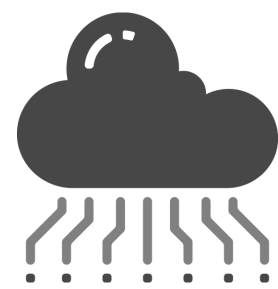


Machine Oriented  
business model

## How?

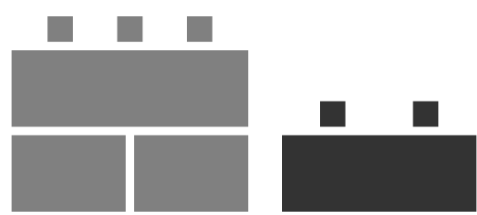
With an Open Automation Platform, highly customizable, designed to improve operational efficiency and drive innovation. Thanks to its open, modular and scalable architecture, an Open Platform facilitates the integration of different applications and systems, optimizing data management and analysis.

...based on 3 fundamentals



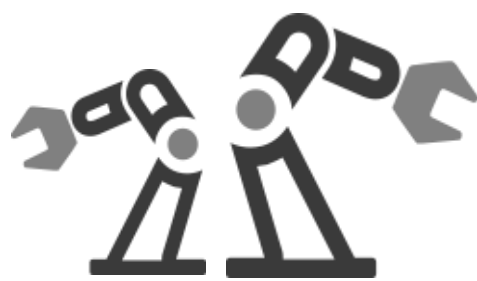
*Management and IIoT Portal Based  
Set of services in the cloud platform*

CLOUD/IIoT  
Level



*Collection of Apps for different functionalities  
Connecting / Collecting / Visualizing / Analyzing*

Customize  
Level

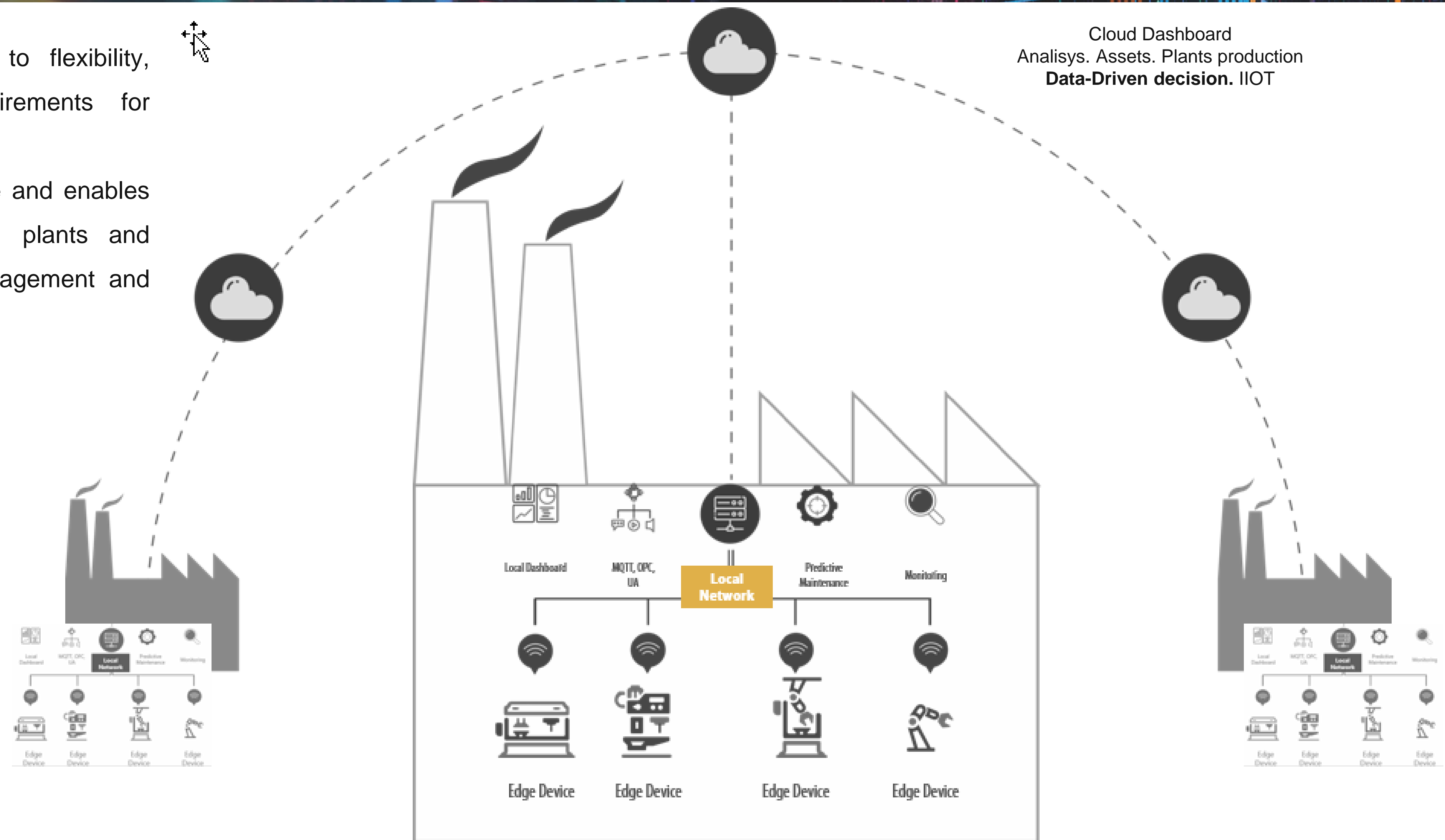


*Edge operation system in any hardware  
Core software infrastructure based on Linux and Docker*

Machine  
Level

An open platform is the answer to flexibility, connectivity and integration requirements for machines and systems.

It allows the optimization of data use and enables the connection between machines, plants and systems, facilitating information management and analysis.



## Use Case: how to improve production management and monitor machine performance.

### Sector

Automated Warehouses

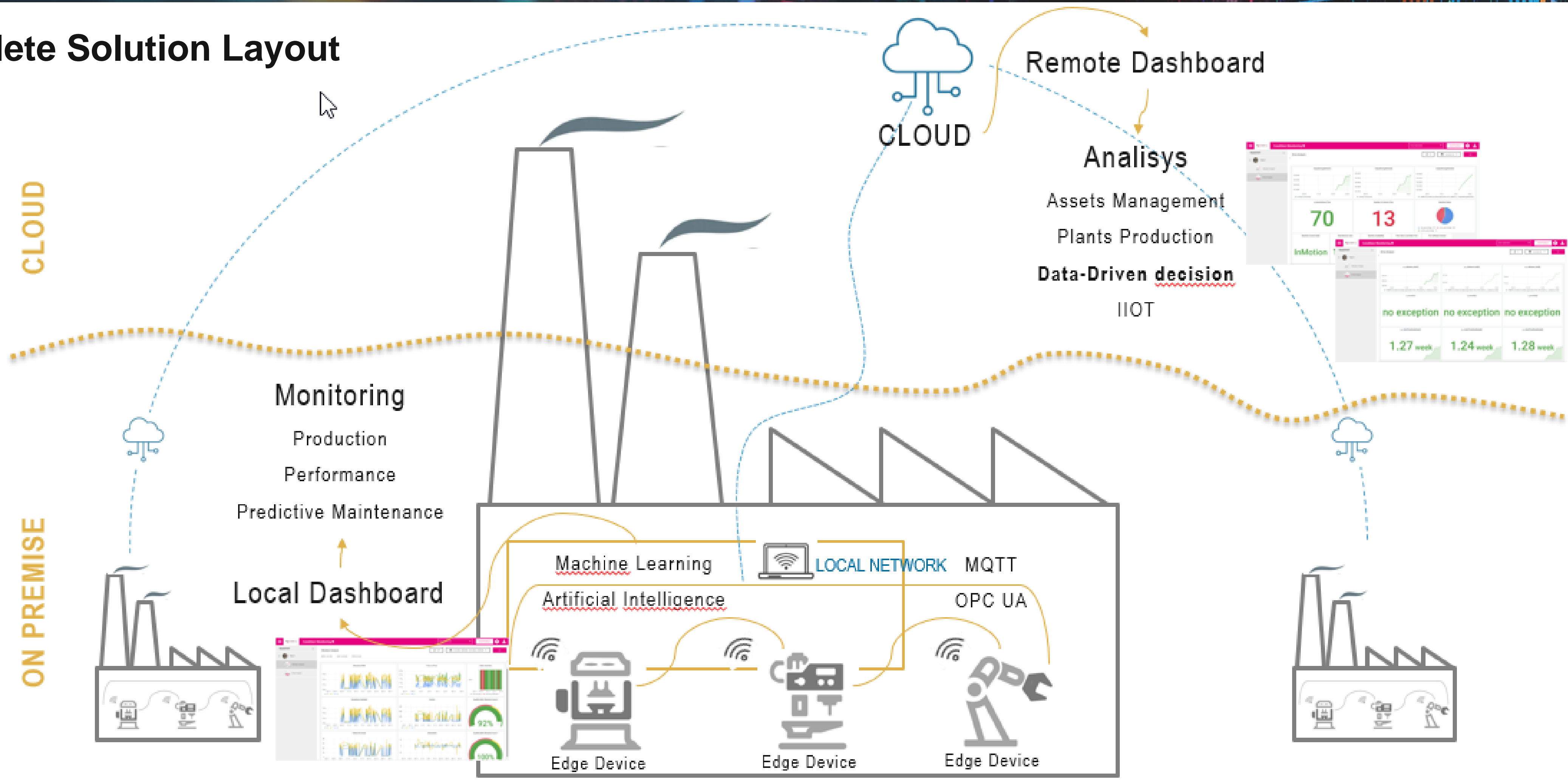
### Challenge

- *Monitoring of machines performance in real time.*
- Monitoring and analysis remotely performane of machine in different locations.
- Optimization of operative process
- *Maintenance and service cost reduction*
- *Extension of machine life-time*
- More efficient data-driven management of business processes

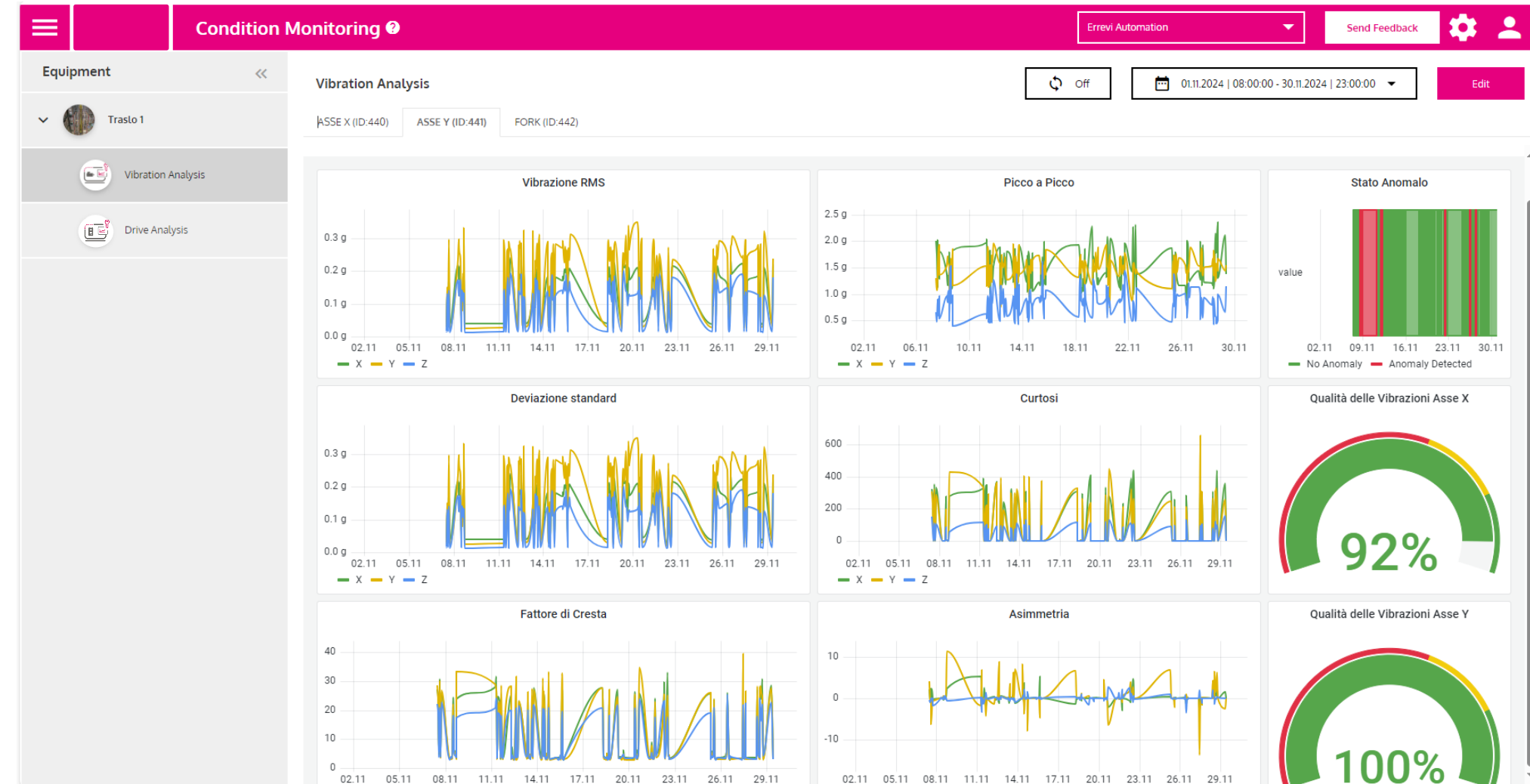
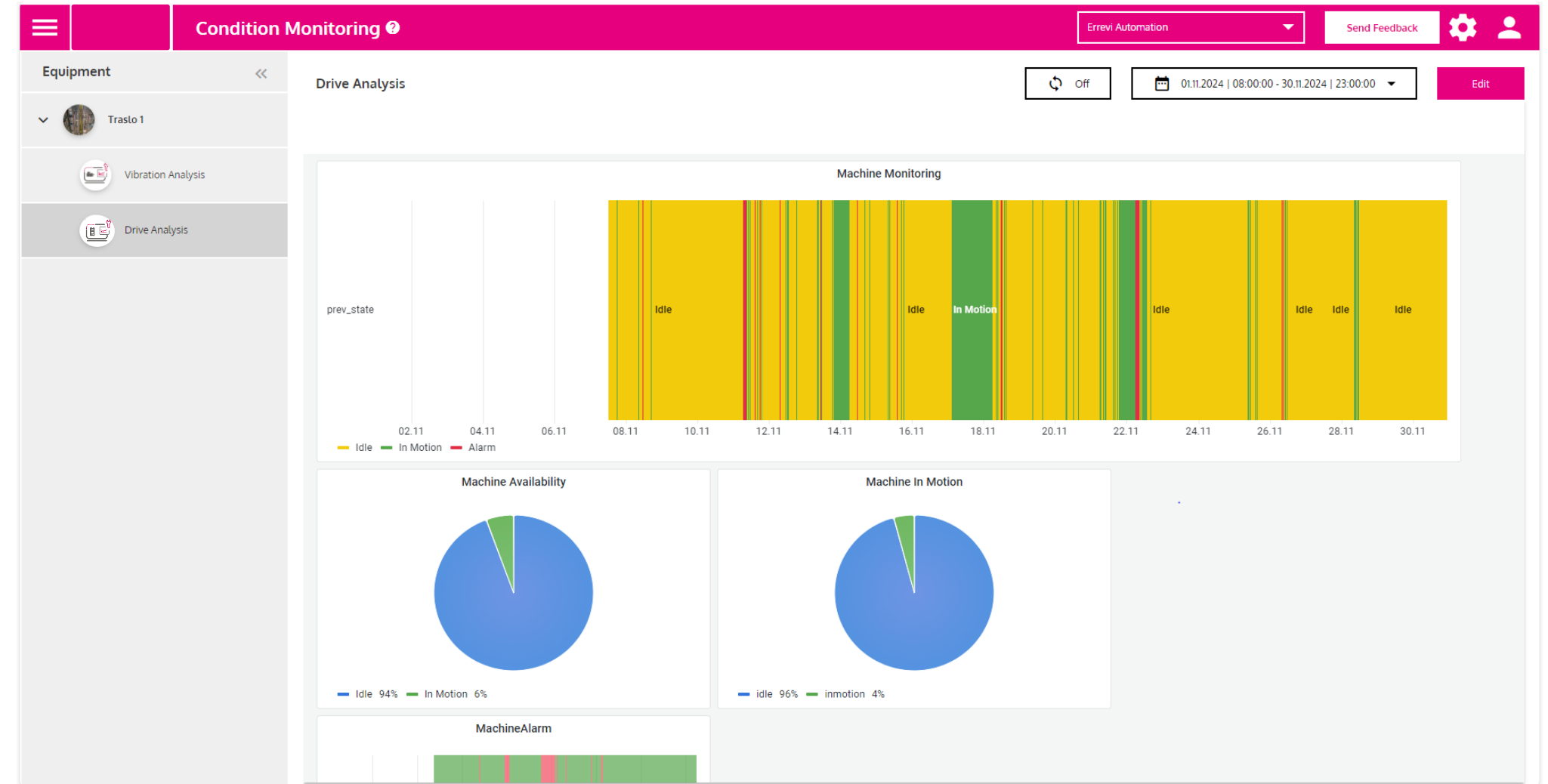
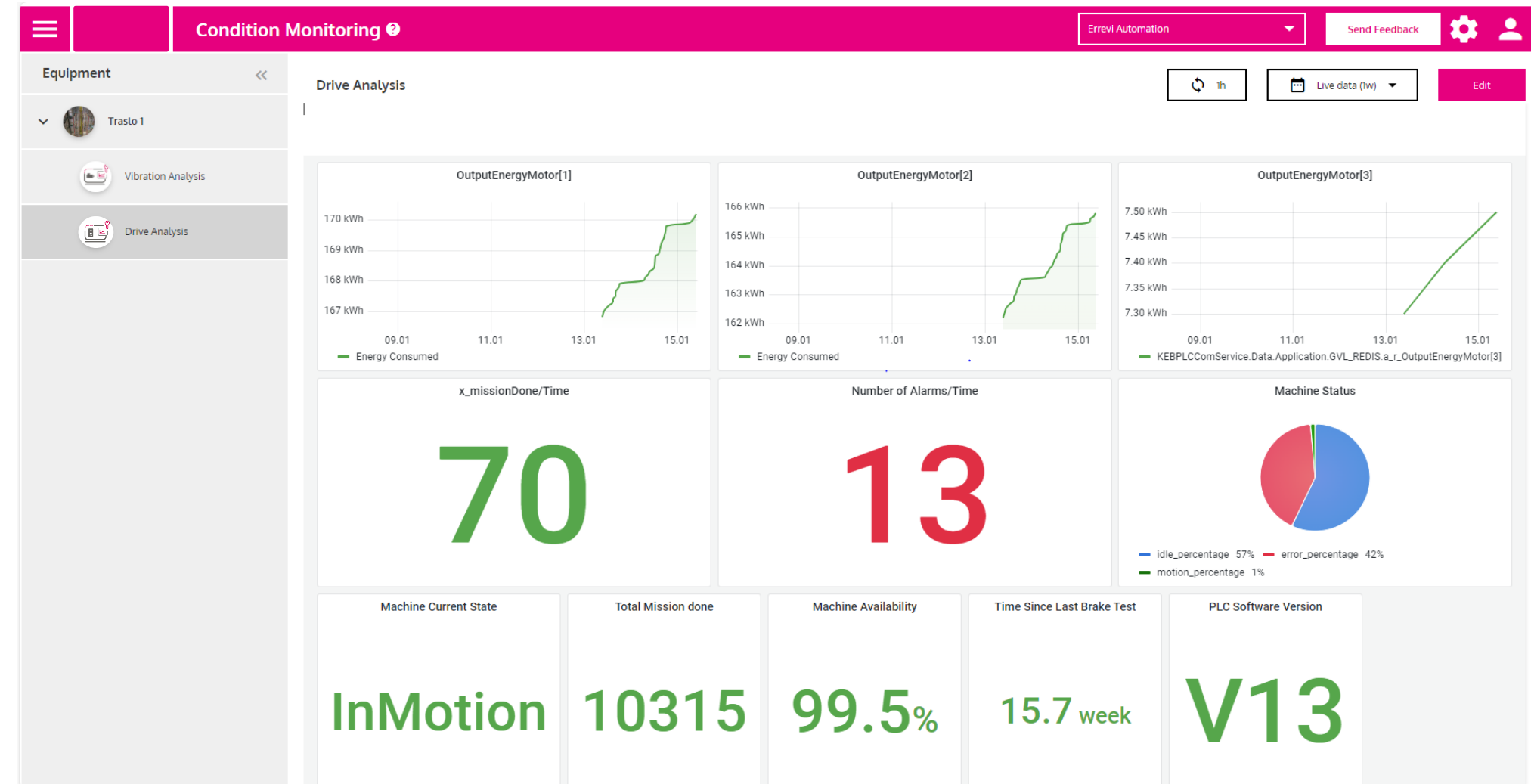
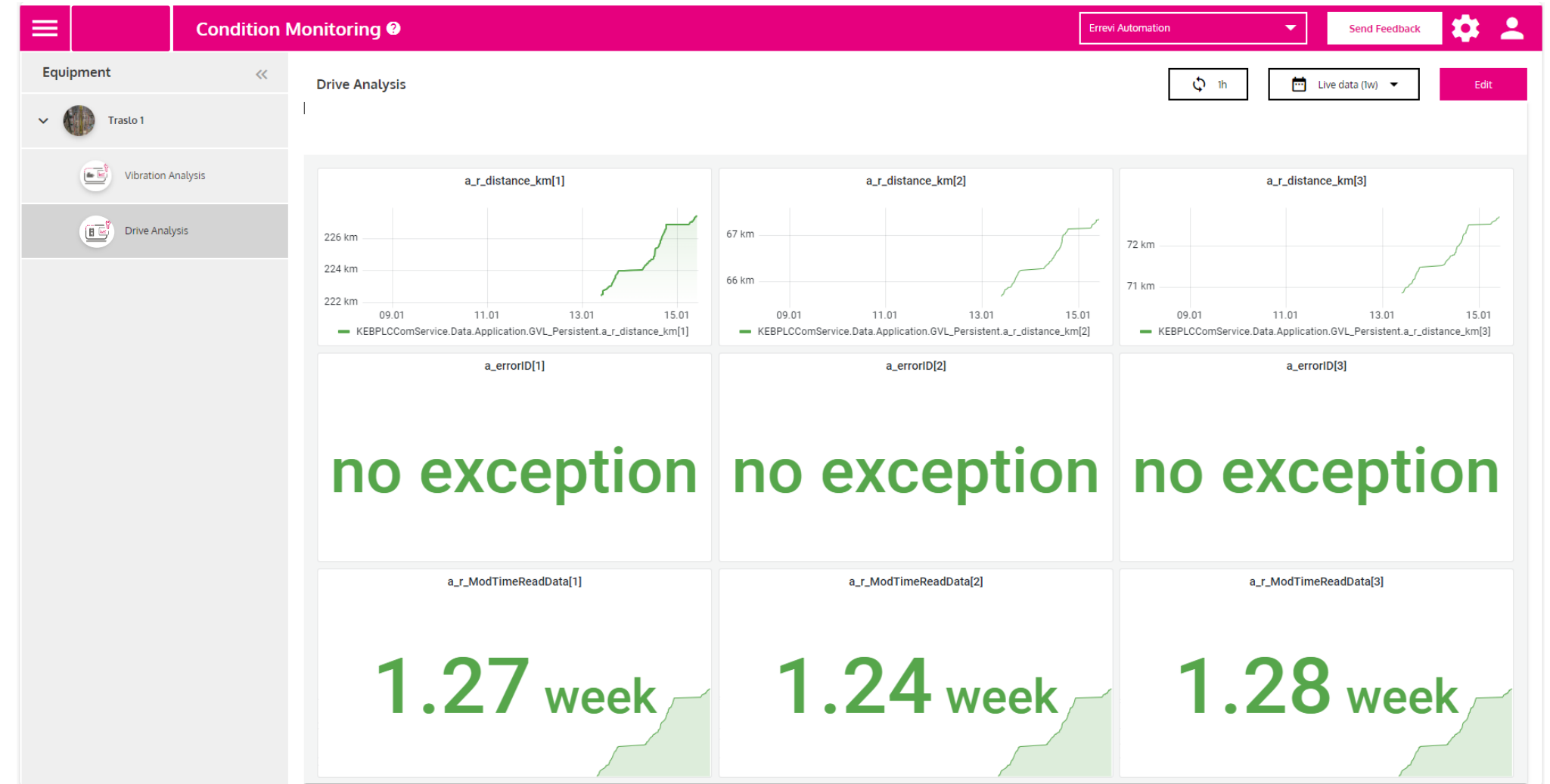
### Solution

Data from sensors mounted on motors and machine operating data are collected and sent to AI-based software that analyzes and processes them through machine learning algorithms, providing the customer with detailed information about the performance of the machine, energy consumption and component operating status for the management and optimization of operational processes.

# Complete Solution Layout



# Dashboards





## Advantages:

### Open Flexible Scalable

#### OEM

- Machines Performance monitor.
- Monitor and Analyse plant in real time.
- Remote machines connection for easier service organization activities.
- Digital Services sell as «added value» to their customers.
- Competitive advantages in the market against their competitors.

#### End-User

- Machines Performance monitor.
- Motors (and Drive) predictive maintenance:
  - Avoid unexpected machine stop
  - Maintenance and service cost reduction
  - Machine life-time extended
- Customized Dashboard for machine data analysis and take production decision based on data.

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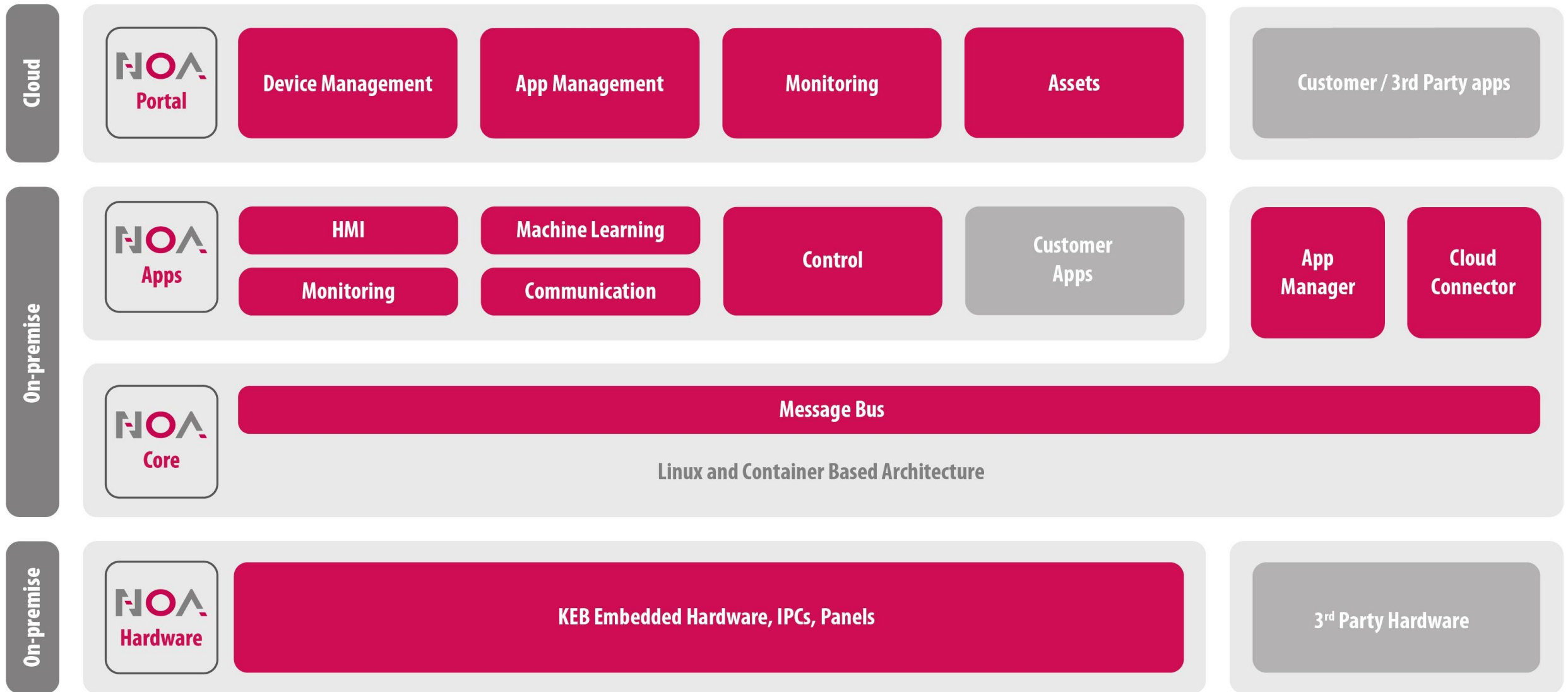
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# Reference

## NOA Next open automation



Click on th link below to find out more about our new open architecture:

[NOA product description](#)

[NOA Brochure](#)

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[Watch the Video](#)



Click on th link below to find out more about our full solution:

[Product Portfolio](#)