

# Real-time Machine Monitoring and Analytics

## Accurate and reliable downtime monitoring in real time

### Summary

Manufacturing plant floors today often utilize a host of software systems and machines. The importance of monitoring production lines and gathering intelligent data from these assets is imperative, but many are using outdated, home-grown, ineffective software. Manufacturers need a way to transform and optimize their operations to remain relevant and competitive.

New solutions that can combine different data sources and real-time calculations of KPIs and equipment performance are essential to improve plant performance, reduce production costs, and improve decision making.

## Paperless shop floor with automatic data collection

This solution use case is provided by Engineering Digital Industry, the division of Engineering Group dedicated to delivering Industry 4.0, on the MindSphere platform. It provides a user-friendly, easy to configure formula editor, and a responsive interface for mobile applications. Customizable dashboards provide management and users with real-time data collection, as well as KPI and OEE visualization. Machine monitoring reduces maintenance costs and downtime, with predictive and preventive analyses.

A full dashboard and reporting suite assists plant managers in setting strategies for optimal operations, with KPIs on performance results. This solution can scale across all discrete and process manufacturing industries, including aerospace, automotive, chemical, food and beverage, machinery and plant construction, oil and gas.

## Benefits

- Optimize operational performance with real-time monitoring and analytics data.
- Reduce downtime and cut costs with improved asset management.
- Improve machine effectiveness, efficiency, without raising costs using an end-to-end solution.

## Features

- Connects devices, sensors, and other telemetry and parameters.
- Downloadable mobile app receives input from the plant floor.
- User-friendly formula editor, downtime monitoring, KPI and OEE calculation.
- Dashboards with KPIs and full reporting capabilities help with trouble-shooting and decision-making.



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