

IIOT predictive maintenance data kickstart



Challenge

Data silos and immature processes

Getting real time metrics from industrial equipment is challenging because data is often locked into proprietary on-premise and cannot be used for predictive maintenance. Lack of real time data and visibility to factory floor processes will suppress the development of data driven services. IT systems are used to optimize business processes and create insights for business units. OT systems (Operational Technology) monitor events, factory floor processes and devices in order to keep production running in the most efficient way. Typically IT and OT share little or nothing, creating unnecessary silos and slowing down product and service development, finally resulting in a data mess where ownership, customer experience and business value are no longer guaranteed.



4 weeks kickstart for predictive maintenance

Gamechanger approach with machine learning

Our kickstart is a cost-efficient and easy way to start data ingestion to build your predictive maintenance capabilities. Our solution will extend current factory floor systems running on Modbus and OPC-UA to supercharge your data platform without any impact to current production systems. Data and asset modeling will improve cross-facility visibility and support machine learning models (ML) such as predictive maintenance. Your real time data will be visualized using AWS SiteWise and a scalable API layer is forming you a solid foundation for future integrations. AWS certified hardware is used to process data locally on your factory floor before sending it to the cloud for further data analysis. Our solution will give you a good starting point for building the future factory. The kickstart assignment will be executed in 4 weeks.

Benefits

Guaranteed factory floor data processing, data ingestion and data models in order to produce OEE and predictive maintenance capabilities.



Gain deep insights to cross-facility data

Process and monitor data on-premises and enable real time data ingestion to cloud for historical data analyses and creating scalable machine learning (ML) models.



Reduce risks and costs

Reduce development, operational and support costs by creating an IT/OT convergence between information and operational technologies using our methods and architecture.



Predictive maintenance templates

Our templates and frameworks will accelerate the development & deployment of machine learning models. We also use AWS SiteWise for data modelling and computing metrics in real time.



Automate security checks

SiteWise secures IoT devices and enables integration into the Solution Security Operations Centre (SOC) for better visibility and traceability.

Solita on AWS

Solita is an AWS Advanced Consulting Partner with Machine Learning and Data & Analytics Consulting Competencies. Solita is a Nordic data leader having almost 1500 professionals in Finland, Sweden, Denmark, Estonia, Belgium and Germany. We use scalable AWS IOT services to build future proof data platforms including data ingestion and predictive maintenance. Let's create impact that lasts by combining tech, data and human insight.

Solution packages

Our experts have created a bulletproof architecture template that kickstarts your journey to predictive analysis in 4 weeks. You have two unique options you can choose from. In both packages Solita Cloud services will be operating the AWS cloud environment during the kickstart phase.

1 - Data ingestion package

This package makes it easy to build OEE (Overall Equipment Effectiveness) for measuring manufacturing productivity. AWS certified equipment is included in package which is used to acquire data from the industrial environment, store locally and send it to AWS cloud. Our solution will fully support industry standard protocols such as OPC-UA and ModBus. Real time metrics are displayed on AWS SiteWise portal based on flexible data asset modelling. This is a great way to start collecting data and gaining insights to your environment.

2 - Predictive maintenance package

The Predictive maintenance package starts with a 2 day workshop on data discovery and creating a anomaly detection machine learning model (ML) for predictive maintenance, so it can be deployed to cloud and edge. We use purpose build ML templates and approach in order to achieve simple and efficient results with limited data sets during kickstart. AWS certified hardware is included in the package for data ingestion and running ML inference on Edge equipment. AWS cloud is used to build, train and deploy the model to edge. After running predictive modeling for just a few days, the results will already be visible on the AWS SiteWise portal. SiteWise gives the user the ability to easy to create alarms based on the resulting data. This is the first phase for enabling Machine Learning Operations (MLOps) that can be scaled from one asset to many, for future predictive use cases.

Pricing



Option 1: Data ingestion package

Kickstart to data ingestion in the easy way, including AWS certified equipment, with results in 4 weeks.



Option 2: Predictive maintenance package

Kickstart to predictive maintenance, including AWS certified equipment, with results in 4 weeks.

Customer References and Case Studies

Read how a global leader in its industry, [KONE](#), is enhancing the predictive maintenance capabilities with Solita.

Get started with Solita solutions on AWS

Contact us: <https://www.solita.fi/en/solita-connected/>