

Predictive Services for
Automotive

Predictive Services for Foundry

Life may be full of surprises – but your foundry doesn't have to be

Predictive Services for Foundry let you see into the future

In the automotive manufacturing industry, outages at individual stations can swiftly put your entire production line out of action. Often, the cause is only something minor, such as wear to a drill bit in the milling station for castings. Fixed maintenance intervals are not enough to prevent this from happening. It's more practical to constantly monitor the condition of your production facilities, and detect wear before a machine fails.

With Predictive Services for Foundry, we create connectivity between your foundry and Edge or Cloud solutions, provide solid analyses of condition data and sources of failure drawn up by our experts, and enable even faster and more accurate evaluation using artificial intelligence. Because every foundry is structured differently, our experts design customized plans and data analysis models, substantially improving transparency throughout the entire lifecycle. That makes it easier for you to schedule maintenance work and improve availability and productivity of your plant on a lasting basis.

Predictive Services for Foundry is our three-stage offering for foundries in automotive manufacturing. It's part of Services for the Digital Enterprise, which our digitalization experts use to help you with the digital transformation of your company.

Your benefits



Transparency

Forecasting condition and remaining availability lets you perform maintenance work that's based on the actual condition of your components instead of following a fixed schedule



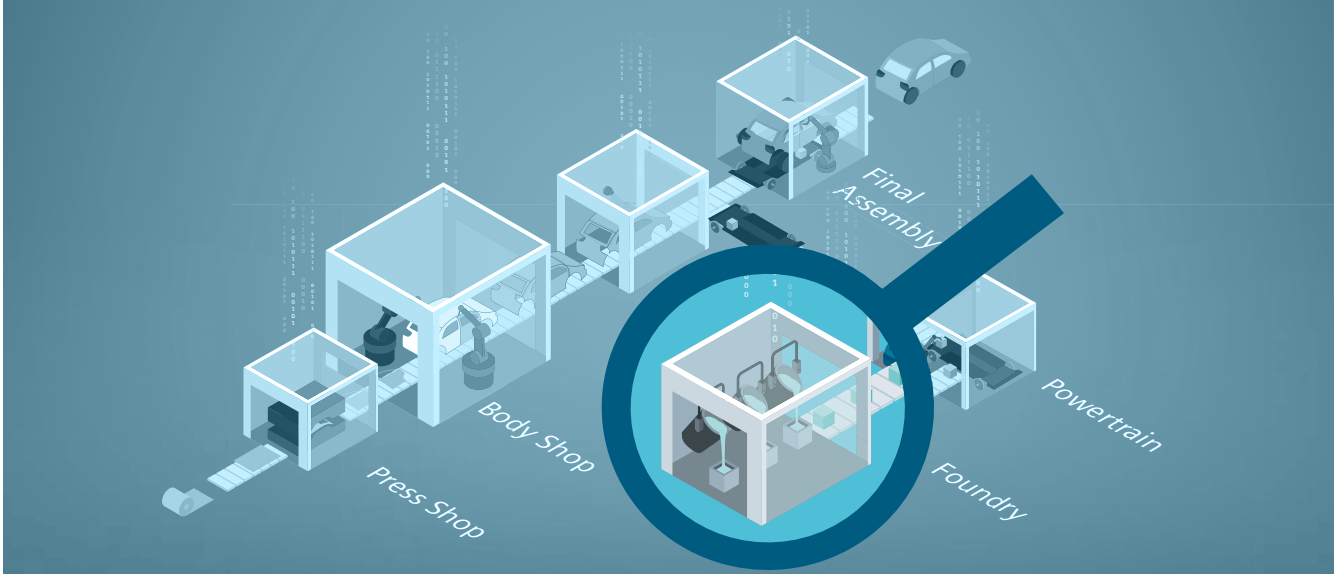
Availability

Predicting potential outages helps avoid downtimes affecting the entire line



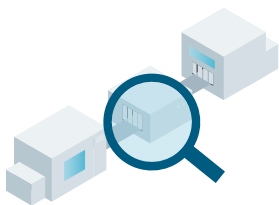
Service life

Optimized maintenance enhances the service life of consumable parts



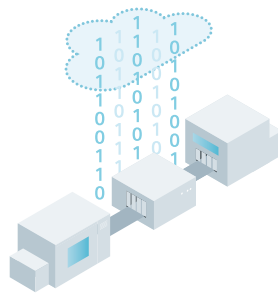
Our offering for your future – modular solutions for predictive services in automotive manufacturing

Modular services to acquire, analyze, and evaluate machine data connect your plant and applications to Edge or Cloud solutions to suit your needs and requirements. You receive reliable analyses of condition data and sources of error, in addition to specific recommendations from our experts, who evaluate the available data using artificial intelligence.



Module 1 Assessment

We work with you to evaluate the current situation on-site based on machine data, automation hardware, network situation, and other factors. The focus is on the area you want to optimize, such as the milling station to remove casting residues left over from the casting process. We also establish whether all the necessary data is available or if additional sensor technology is required. Based on the result of the assessment, we draw up a detailed connectivity concept.



Module 2 Connectivity

The connectivity concept drawn up as part of the Assessment module provides the framework for the installation of sensors and condition monitoring systems, to ensure all necessary data is acquired. The usable data varies widely. For example, we can determine electricity consumption, vibrations, temperatures, and much more. We will also set up a customized Edge or Cloud solution, depending on what you need or prefer for your company. Thereby, we establish the connectivity for data analysis.



Module 3 Analytics

Our system evaluates the collected data and delivers meaningful observations regarding the condition of your plant and potential sources of error, such as a break of a blade in the milling station. Artificial intelligence helps us evaluate increasingly large volumes of data even faster and more reliably. Our experts optimize adaptive algorithms in order to reliably identify anomalies that indicate potential faults. This can also be performed across multiple locations, so you can monitor the availability of different production lines.

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