

# Digital manufacturing services

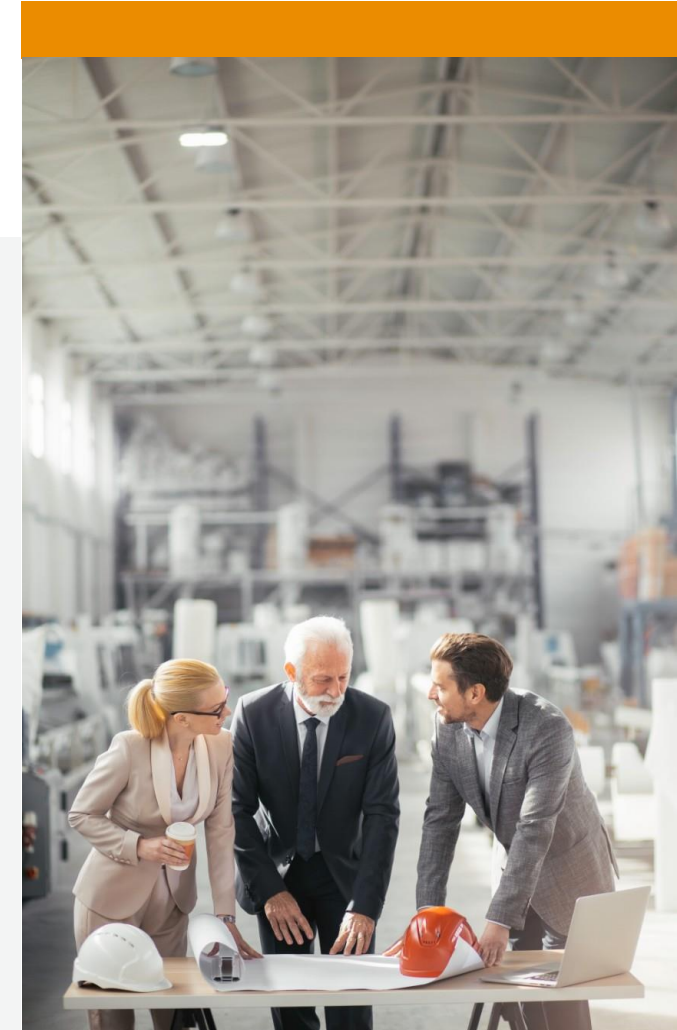


## The challenge

### To stay ahead, smart factory solutions should enable end-to-end decision making

Most smart factory solutions lack the ability to unify your data infrastructure, enabling disjointed processes

- **Overloaded dashboards**  
Dashboards that do not display relevant information or are scattered over multiple applications, prevent insights from translating into actions
- **Lack of transparency**  
Recent events in the production network and historical reports that are not interlinked, renders holistic decision-making nearly impossible
- **Retrospective root cause analysis**  
Shop floor workers and production supervisors often do not have real-time visibility and lack the analytical insights to identify the cause for plan deviation
- **Complicated analysis processes**  
Inability to resolve quality problems caused by too many interfaces, heterogeneous data sources and lack of analytical capabilities preventing the workforce from performing defect analysis





# The solution

## A 360-degree view of your production operations

### Turn insights into actions and enrich existing solutions with artificial intelligence

PwC's digital manufacturing services can provide cloud-native smart factory capabilities helping enable Industry 4.0 through near real-time production data ingestion, end-to-end visualization of manufacturing performance and advanced AI/ML models to create value with Microsoft Azure.

Centered around a set of dashboards that give stakeholders exactly what they need and analytics that drive results, our tech-enabled services use AI and process integration to help create value and increase transparency.

### Key benefits

- 1 Enable production transparency to enable end-to-end decision making and trigger corresponding actions
- 2 Leverage artificial intelligence and real-time actions to raise quality issues and reduce cost of quality
- 3 Provide tailored dashboards for your shop floor that can detect patterns and immediately take action
- 4 Visualize and enhance production flows and production data in real-time to detect bottlenecks and reduce waste

# Case study



## Global rollout of a digital manufacturing platform

### Challenge

The client wanted to develop a scalable digital manufacturing platform that drives business value across all 190+ plants.

### Solution

PwC teams envisioned and developed a platform and underlying enablers with a focus on scalability. Use cases were developed across the EPICs production control tower, E2E traceability and maintenance intelligence. Onboarding and change management to connect all plants were built as a concept as the client transformed from a program organization to a product organization.

### Results

IIoT also plays as a standalone solution without MES to provide a platform that adds value for the plants.

18 highly scalable use cases jointly developed with Microsoft engineering and client process specialists.



### Let's connect



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