

# SMART FACTORY

# SMART FACTORY | Generate the wholistic production system 2025



TYPE OF SERVICE

**Solution**



Industry

**Manufacturing**



SOLUTION AREA

**Data & AI**



DESCRIPTION

## Social Machines

*Machines generate a "consciousness" about the steps they must execute and detect divergent states*



## Smart Products

*Products are aware of their current state and support smart machines to ensure streamlined product*



## Workers

*Intervene and automate call for adjustments or help*



## Cloud meets Edge

*Rigid SCADA architecture will be succeeded with a flexible combination of edge and cloud computing to assure scalability and flexibility*



## Smart Logistics

*Supply will be handled automatically, and the products will be transferred*



## Smart Factory Building

*Reacts to environmental factors and optimizes resource usage to achieve a sustainable footprint*



## Virtual Production

*Combining all elements you'll end up having a virtual production*



AZURE COMPONENTS

- IoT Hub
- Data Factory
- Databricks
- Gen2 DataLake
- Power BI
- Azure Synapse Analytics

## CHALLENGE

- IT vs. OT
- Big Data
- Heterogenous IT Infrastructure
- Security Concerns
- Skill Gap of shop floor worker

## SOLUTION

- Agile Approach
- Azure Cloud & Data Components
- Ripping knowledge silos between departments apart

## BENEFIT

- Decrease in operating costs
- Increase of the overall equipment effectiveness (OEE)
- Predictive maintenance





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