



What we want to achieve by doing Industrie 4.0



- Shorter innovation cycles
- More complex products
- Larger data volumes



- Individualized mass production
- Volatile markets
- High productivity



 Energy and resource efficiency as key competitive factors



Manufacturers must respond with significant improvements in Speed, Flexibility and Efficiency



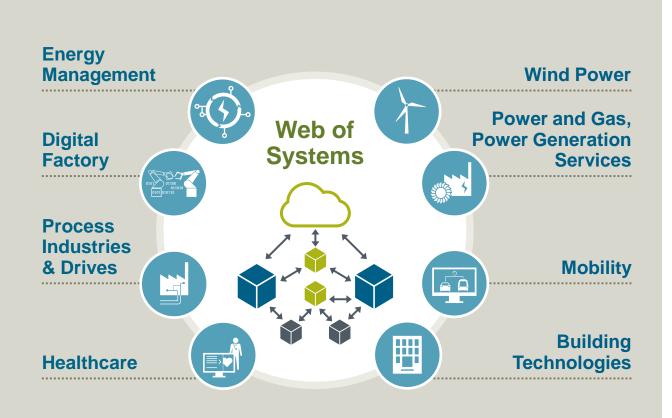
Industrie 4.0 is chance for SM Enterprise



- 1. Industrie 4.0 is a chance not threat
- 2. Industrie 4.0 will simplify your process not complicate
- 3. It is also chance for SMT to access global market
- 4. Take advantage of globally connected IoT platform is key



What is IoT

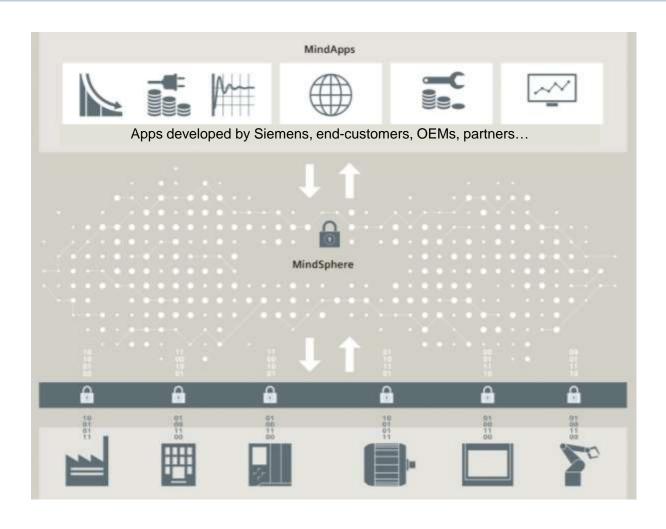


Standard technology replace dedicated system

It covers cross industries



MindSphere – a cloud based, open IoT Operating System



Optimization of plants and machines as well as energy and resources

- Open standards for connectivity of Siemens und third-party products
- Plug and play connection of Siemens products (engineering in the TIA Portal)
- Cloud for industry with open application interface for individual customer applications
- Transparent pay-per-use pricing model
- Opportunities for completely new **business models** (e. g. selling machine hours)

MindSphere enables a quick, easy and secure start into data-driven services



STEP 1

Connect

Get MindSphere user-account, receive and integrate your MindConnect element into your machine/equipment



STEP 2

Configure

Configure data acquisition, connectivity and Visual Analyzer via MindSphere





Asset Configuration on MindSphere - experience how easy it. Click here

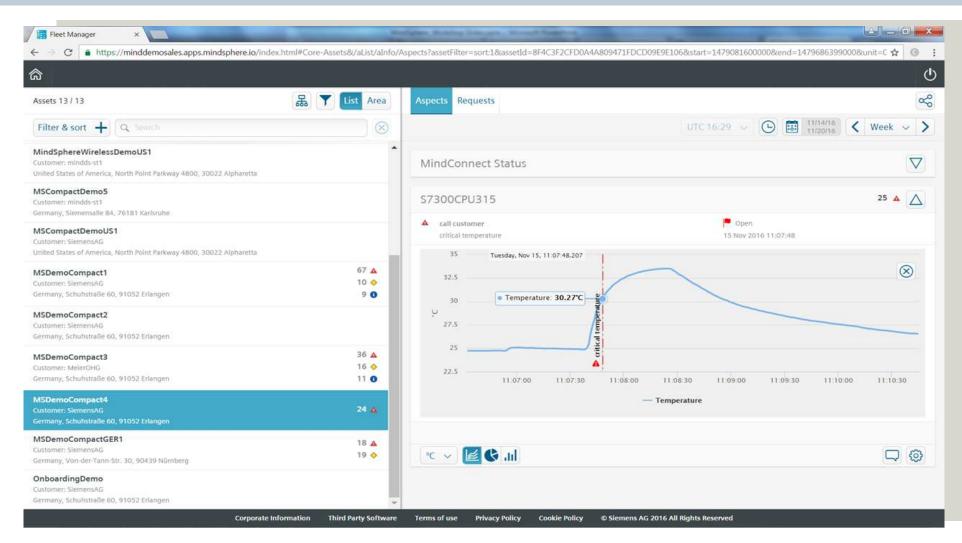
STEP 3 Run the Service

Monitor e.g. health status of all assets and drill into details using MindApp Fleet Manager





MindApps Example: Fleet Manager – visualizing data points



Run the Service Fleet Manager

Monitor the health status of all assets in the Fleet Manager and analyze problems in detail

MindSphere Automotive Customer

Gehring Technologies GmbH







Challenge

 Digital Service Vison: "We want to convince our customer of the value of our services worldwide."

Solution

- Connection of machines via S7
- 6 Data Points on Honingmachine (End customer Weber Automotive)
- Creation of rules for failure alarming using the Fleet Manager on MindSphere

Profile

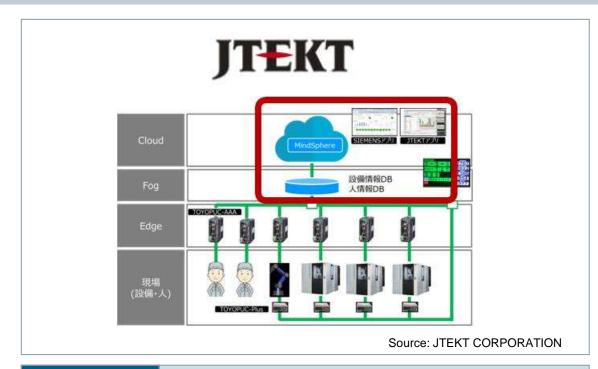
- Globally operating machine tool company in the area of honing technology (market leader)
- Technicians support located in China, Brazil, India, the USA, France and Germany

Customer benefit

- Out-of-the box digital service offering for endcustomers
- Insights about usage of machines

MindSphere Automotive Beta-Customer JTEKT corporation





Challenge

 To realize their vision, "Smart Factory with human as the lead, harmonizing human and facilities, utilizing human brains", it is required to have a "Chain Solution", a collaborative solution by JTEKT and their customers

Solution

- AAA, the edge type analysis module, TOYOPUC plus, the connective PLC etc.
- Going to develop JTEKT application using MindSphere

Profile

- Global major manufacturer of auto parts and machine tools
- Focusing on the "connected industries" to support the reform of manufacturing for small and medium-sized manufacturers

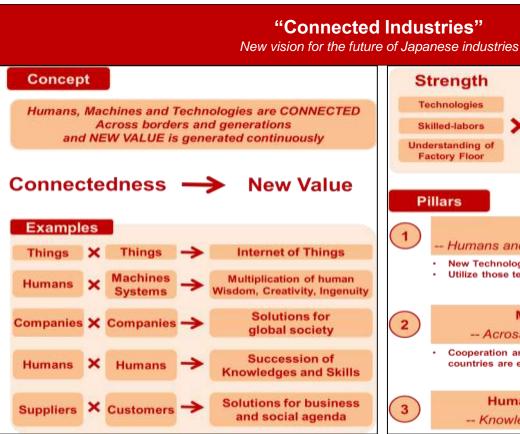
Customer benefit

Customers who have difficulty implementing IoT due to the security, IT engineers availability and the costs, will be able to easily realize the smart factory with low costs, and then contributes to their customer's competitiveness innovation



Contribution to "Connected Industries"

Siemens K.K. contributes to "Connected Industries" / the 4th Industrial Revolution through the activities of RRI (Robot Revolution Initiative), that collaborates with Plattform Industrie4.0 in Germany.





Collaboration between Platforms

Plattform Industrie4.0 and the RRI agree on cooperation regarding Unrestrictedet of Things / Industrie4.0 (28th,Apr.,2016)



https://www.jmfrri.gr.jp/english/info/256.html

the Hannover Declaration





http://www.meti.go.jp/english/press/2017/0320 002.htm



Thank you

