The Digital Enterprise @
Discrete and Process Industries
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Digitalization changes everything
This increases pressure on industrial enterprises.
Generating customer benefits is our key priority

Industry demands

**Efficiency**
- Resource and energy efficiency
- Demanded product/quantity
- ...

**Flexibility**
- Individualized mass production
- Volatile markets
- ...

**Quality**
- Closed-loop quality
- Traceability
- ...

**Time-to-market**
- Fast innovation
- More complex products
- Lifecycle Management
- ...

**Security**

**HSSE** – Health & Safety | Environment | Regulations/Standard | ...
Simply focusing on the automation aspect of manufacturing is not enough.
Digitalization is the next level of productivity

Different initiatives, e.g.
- Industrie 4.0
- Industrial Internet Consortium (IIC)
- Made in China 2025
- ...

Global trends
- Digitalization
- Globalization
- Urbanization
- Demographic change
- Climate change

Electrification, Automation and Digitalization as levers to increase productivity
Integrating and digitalizing the entire value chain is key to staying competitive in the future.

**Cloud-based, open IoT operating system:** MindSphere

**Collaboration platform:** Teamcenter

**Suppliers and logistics**

1. **Product design**
2. **Production planning**
3. **Production engineering**
4. **Production execution**
5. **Services**

Third party applications
Integrating and digitalizing the entire value chain is key to staying competitive in the future.

- Product design
- Production planning
- Production engineering
- Production execution
- Services

Collaboration platform: Teamcenter

Cloud-based, open IoT operating system: MindSphere

Third party applications

Suppliers and logistics
Addressing the challenges through digitalization …

Paving the way to the Digital Enterprise

Efficiency
Flexibility
Quality
Time-to-market
Cyber Security

DIGITALIZATION

Digital Enterprise @ Discrete

Digital Enterprise @ Process

Get ready: Digitalization Masterplan
Integração de domínios técnicos em um único modelo de dados

Gêmeo digital do produto

Gêmeo digital do processo produtivo

Gêmeo digital do equipamento
Publishing the optimized Digital Twin to all stakeholders, including suppliers, with the collaboration platform Teamcenter
Our holistic approach
Specific for end customers and machine builders
Digital Enterprise is our portfolio of solutions for the digital transformation – in both discrete industry and process industry.

### Digital Enterprise

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**Industrial Software and Automation for process industries**

- Industrial Communication
- Industrial Security
- Industrial Services

**Industrial Software and Automation for discrete industries**

Digitalization of the field level
Addressing the challenges through digitalization …

Paving the way to the Digital Enterprise

Efficiency
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DIGITALIZATION

Digital Enterprise @ Discrete
Digital Enterprise @ Process

Get ready: Digitalization Masterplan
Digitalization demands a holistic approach
Digitalization demands a holistic approach

Perspectives to be addressed

- Consulting approach
- Technological perspectives
- Organizational aspects

Business Intelligence
- Data Management
- Value Chain
- Industrial Applications
- Cyber-Physical Systems
- Network Infrastructure
- Safety and Security
Digitalization changes everything
... and Industrial IoT also part of this change
Cloud-based, open IoT operating system
MindSphere

– MindSphere has data analytics and connectivity capabilities, tools for developers, applications and services.

– It enables cities, institutions and industrial enterprises to improve the efficiency of systems through the acquisition and analysis of large quantities of process data.

– MindSphere transform data into knowledge, and knowledge into sustainable business management.