Driving the Digital Enterprise for discrete industries

Dr. Jan Mrosik, CEO Digital Factory Division
Our customers have essential requirements – throughout the manufacturing industry

- **Speed**
- **Flexibility**
- **Quality**
- **Efficiency**
- **Security**
Digital Enterprise is our portfolio of solutions for the digital transformation – in both discrete and process industries.

Digital Enterprise

**Process Industries**

- Product design
- Process and plant design
- Engineering
- Operation
- Services

**Discrete Industries**

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

**Industrial Software and Automation**

- for process industries
  - Industrial Communication
  - Industrial Security
  - Industrial Services

- for discrete industries
  - Industrial Software and Automation Suite
Analyze assets as they perform with MindSphere and feed back insights to continuously optimize the value chain.
Create a powerful Digital Twin of the entire value chain

Cloud-based, open IoT operating system: MindSphere

Third party applications

Collaboration platform: Teamcenter

Suppliers and logistics

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

Design and simulate the product

NX CAD/CAE/CAM
Product design

Simulate the physical behavior

Simcenter
Product design

Perfect your product in the virtual world

NX CAD/CAE/CAM
Product design

Design and simulate electronic systems
Mentor Graphics
Product design

Develop, simulate, validate, and manage embedded software

Polarion ALM
Digital Twin

Digital Twin of the product

Digital Twin of the production

Digital Twin of the performance
Production planning

Plan and validate your production process

Teamcenter Manufacturing
Production planning

Simulate working conditions for humans

Tecnomatix
Process Simulate
Production planning

Simulate work processes for robots

Tecnomatix Process Simulate
Production planning

Simulate and optimize your production processes

Tecnomatix
Plant Simulation
Production engineering

Automatically generate the PLC code for TIA Portal

Production Systems Engineering

1 2 3 4 5
Production engineering

Validate the PLC code in the virtual world

Tecnomatix Process Simulate, PLCSIM Advanced, TIA Portal
Production engineering

Fast and efficient engineering and commissioning

TIA Portal
Digital Twin

Digital Twin of the product

Digital Twin of the production

Digital Twin of the performance
Production execution

Schedule and process work operations, run quality inspection operations

SIMATIC IT Preactor, SIMATIC IT Unified Architecture
Production execution

Efficient and secure production with TIA

SIMATIC, SINUMERIK, SIMOTION, SIMOTICS, SINAMICS and SIRIUS
Let your products and your production speak to you

MindSphere – the cloud-based, open IoT operating system
Digital Twin

Digital Twin of the product

Digital Twin of the production

Digital Twin of the performance

Feedback insights to continuously optimize product and production

MindSphere
Digital Twin

One integrated data model

MindSphere

Teamcenter

Digital Twin of the product
Digital Twin of the production
Digital Twin of the performance
Digital Enterprise Suite – Our unique portfolio for the digital transformation
With Siemens’ integrated technologies, Maserati reduced development time while increasing production output.

- **30% shorter development time**
- **More than 70,000 combinations available**
- **3 times more cars produced**
The Future of Manufacturing
Siemens enhances productivity and flexibility of Easysnap by providing solutions throughout the entire value chain

- Innovative workflow from virtual commissioning to MindSphere
- Recent technologies equipped: Simatic S7-1500 & Sinamics S210
- Up to 400 one-pack packages / min
- Machine able to rapidly convert settings and fill up to 30ml / portion
Realize your digital transformation with the Digital Enterprise Suite