

# Digitalization changes everything

This increases pressure on industrial enterprises.



#### Generating customer benefits is our key priority



#### **Industry demands**

#### **Efficiency**



#### **Flexibility**



#### Quality



#### **Time-to-market**



- Resource and energy efficiency
- Demanded product/quantity
- •

- Individualized mass production
- Volatile markets
- . .

- Closed-loop quality
- Traceability
- •

- Fast innovation
- More complex products
- Lifecycle Management
- . . . .

#### **Security**





HSSE - Health & Safety | Environment | Regulations/Standard | ...

#### SIEMENS Engenhosidade para a vida



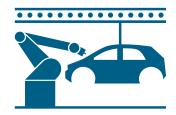




















## Simply focusing on the automation aspect of manufacturing is not enough.





#### Digitalization is the next level of productivity



#### Electrification, Automation and Digitalization as levers to increase productivity



### Global trends Digitalization



Globalization



Urbanization



Demographic change



Climate change

Different initiatives, e.g.

- Industrie 4.0
- Industrial Internet Consortium (IIC)
- Made in China 2025





Digitalization



Next level of productivity





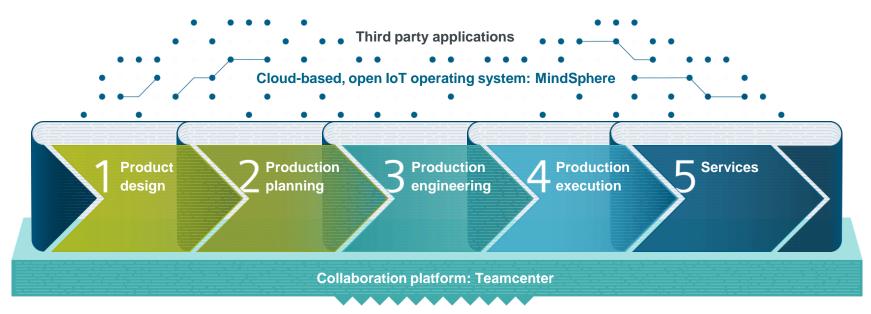




Time

#### Integrating and digitalizing the entire value chain is key to staying competitive in the future

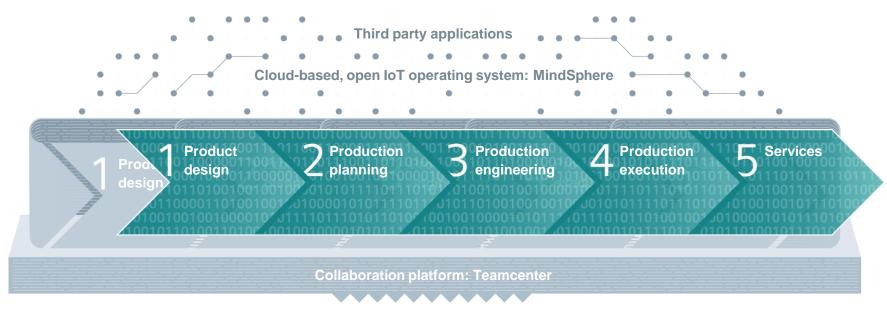




**Suppliers and logistics** 

#### Integrating and digitalizing the entire value chain is key to staying competitive in the future





**Suppliers and logistics** 

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#### Addressing the challenges through digitalization ...

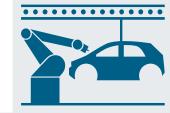


#### **Paving the way to the Digital Enterprise**





Digital Enterprise @ Discrete



Digital Enterprise @ Process



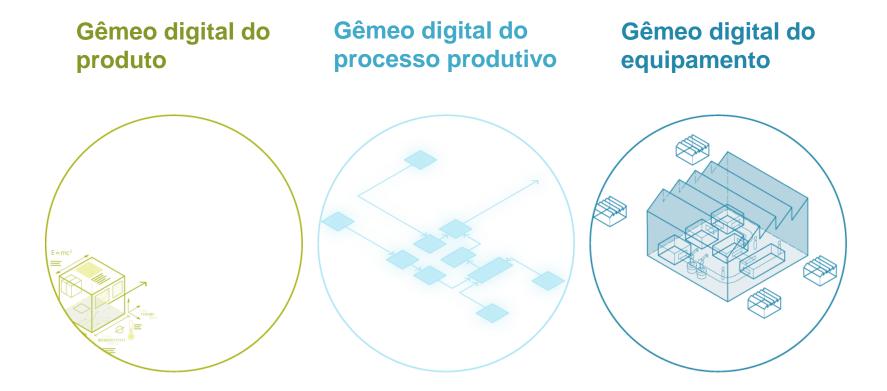
**Get ready: Digitalization Masterplan** 



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#### Integração de domínios técnicos em um único modelo de dados

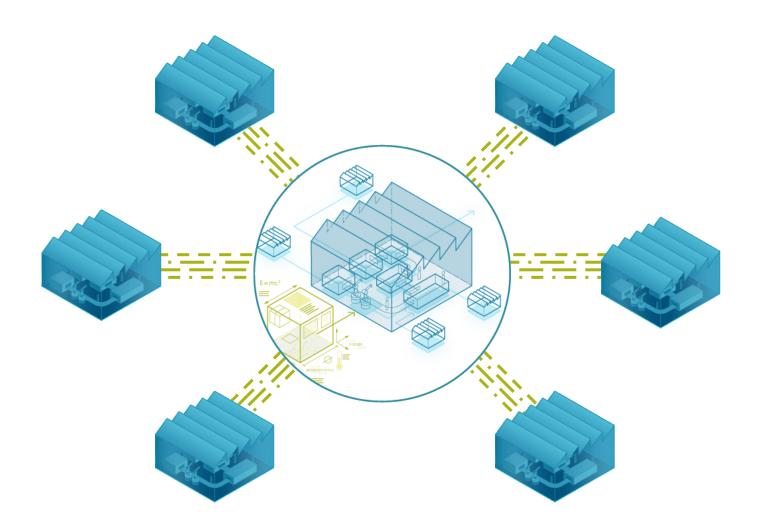




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### Publishing the optimized Digital Twin to all stakeholders, including suppliers, with the collaboration platform Teamcenter

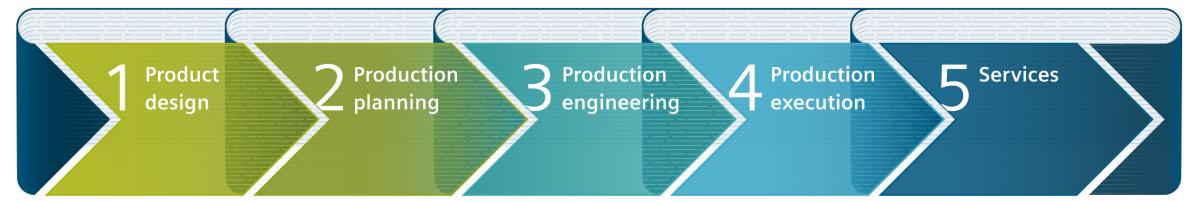


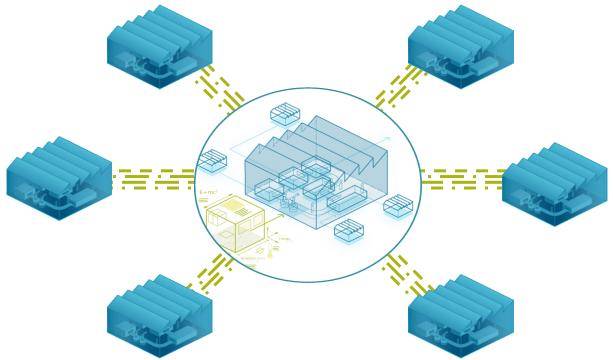


### Our holistic approach Specific for end customers and machine builders



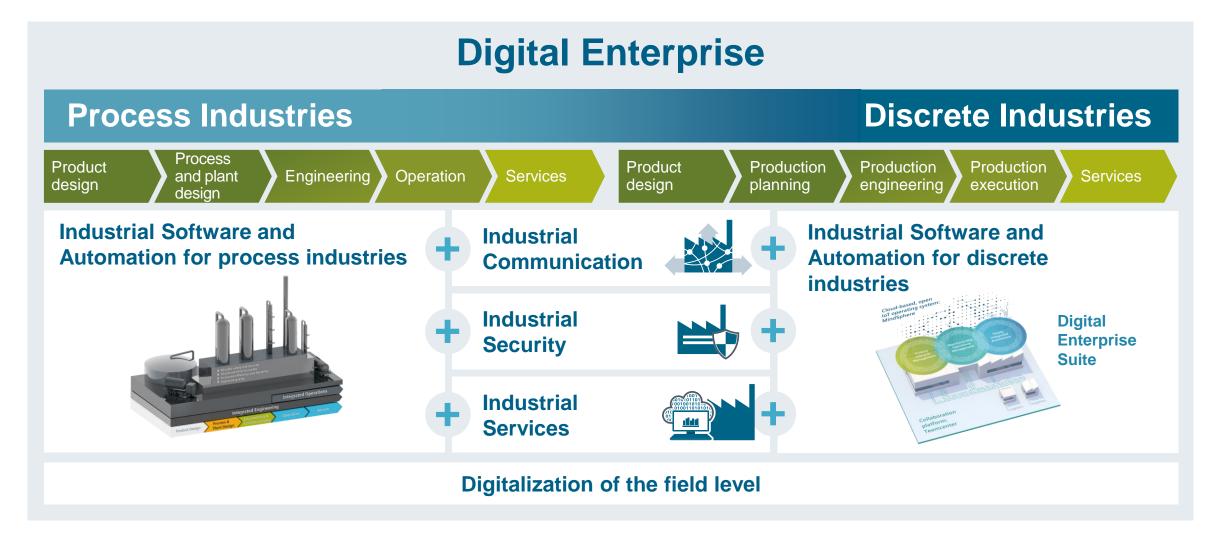
Engenhosidade para a vida





## Digital Enterprise is our portfolio of solutions for the digital transformation – in both discrete industry and process industry





#### Addressing the challenges through digitalization ...

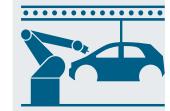


#### **Paving the way to the Digital Enterprise**





Digital Enterprise @ Discrete



Digital Enterprise @ Process



**Get ready: Digitalization Masterplan** 



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#### Digitalization demands a holistic approach







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#### Digitalization demands a holistic approach



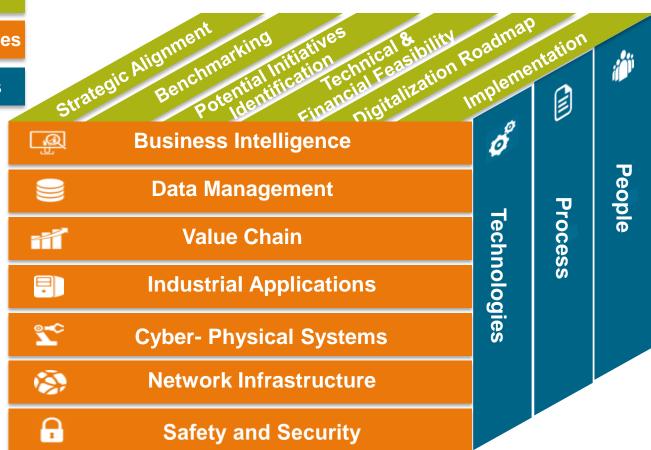


#### Perspectives to be addressed

**Consulting approach** 

**Technological perspectives** 

**Organizational aspects** 



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# Digitalization changes everything

## ... and Industrial IoT also part of this change

#### **SIEMENS**

Ingenuity for life

## 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.

José Borges



## SIEMENS Ingenuity for life

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