



**29ª FEIRA INTERNACIONAL  
DA INDÚSTRIA ELÉTRICA, ELETRÔNICA,  
ENERGIA E AUTOMAÇÃO.**

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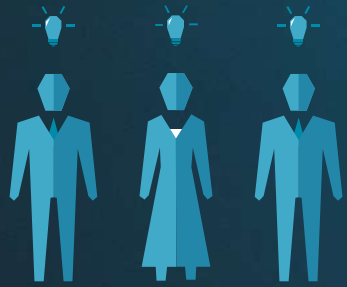
**abinee**<sup>2017</sup>**TEC**



**AUTOMAÇÃO**  
E MANUFATURA INTELIGENTE

# **Digital Enterprise e a competitividade industrial (Industry 4.0)**

Digitalization  
changes everything



Crowdsourcing  
design



Systems-driven  
product  
development



Lifecycle  
analytics



Additive  
manufacturing



Intelligent  
automation



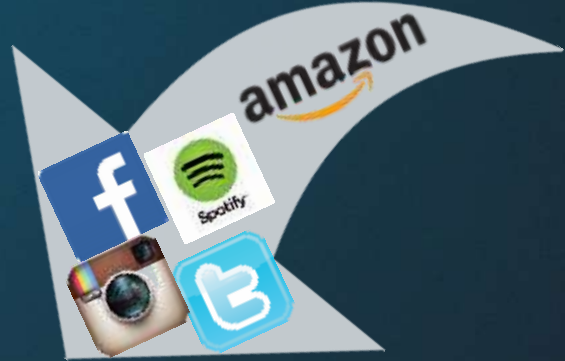
Advanced  
robotics



Classic model ...



New model ...

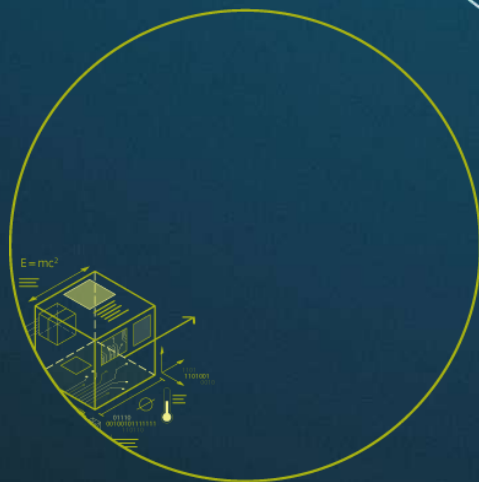


**B**<sub>2</sub>**C**

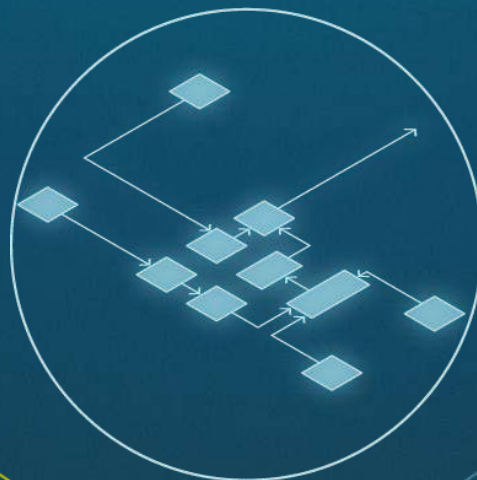


# How fast is your enterprise?

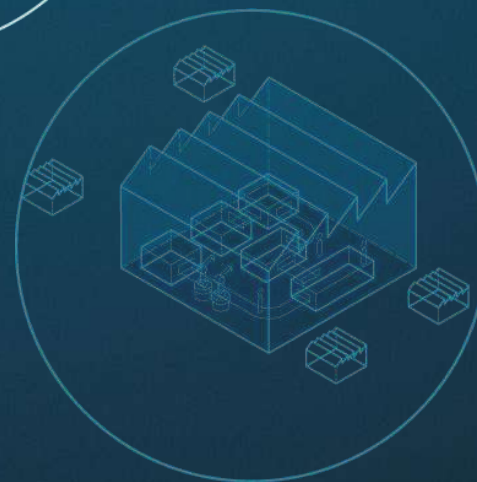
Product design

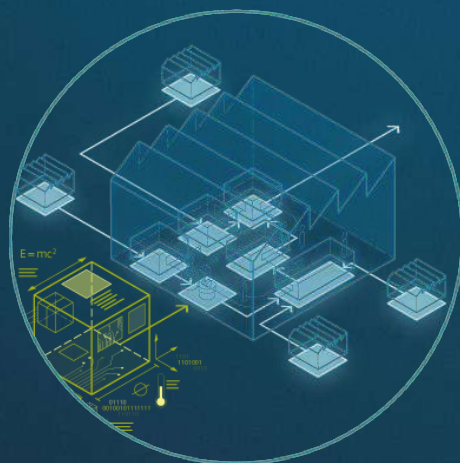
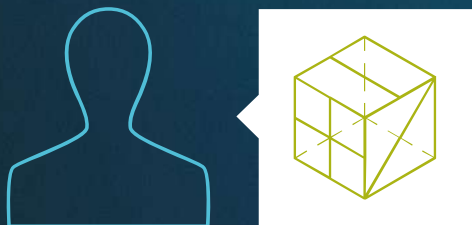


Production process



Process execution

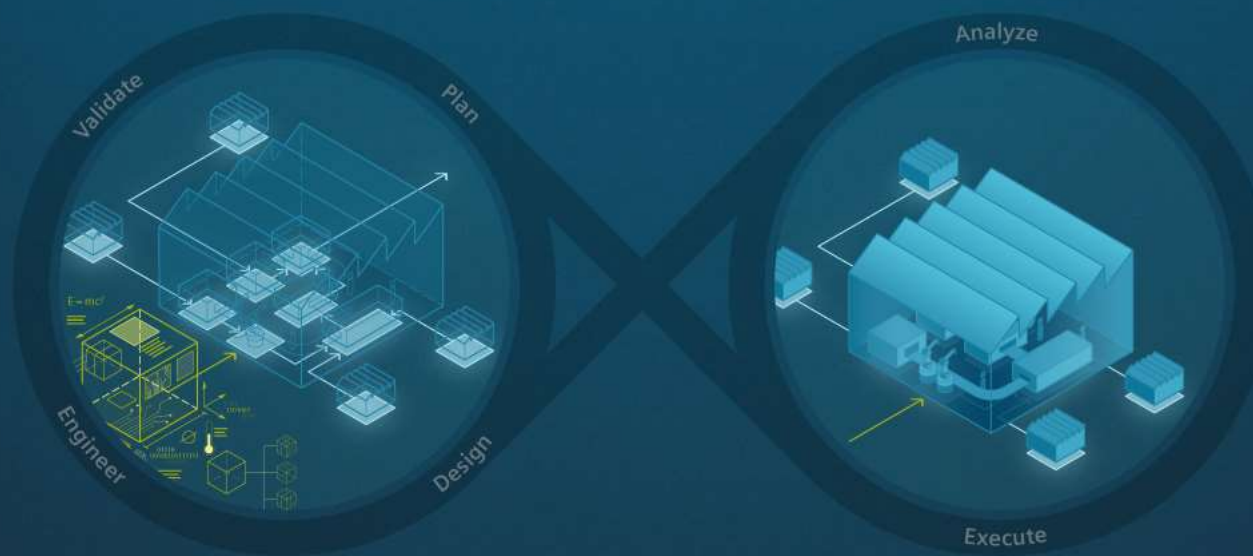
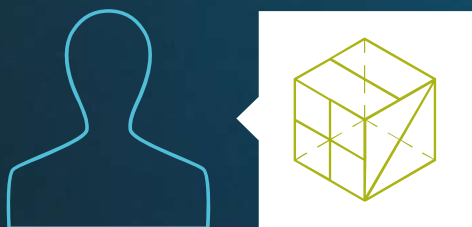




technical domains in  
**one data model**



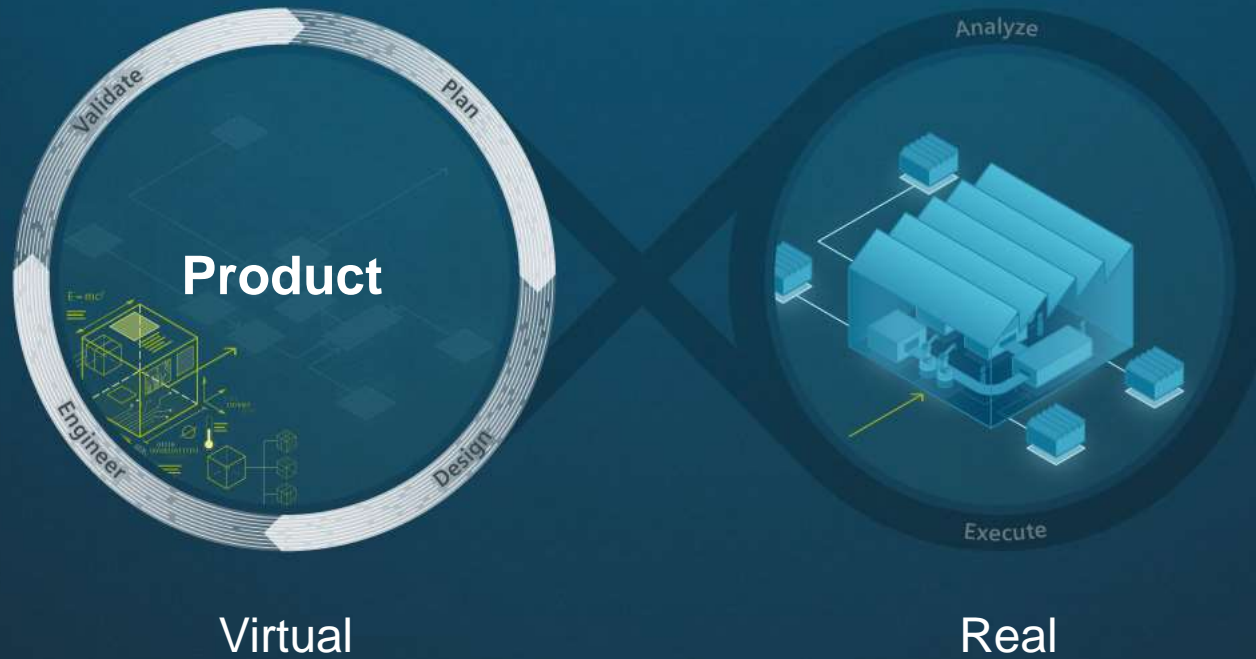
# Seamlessly connection the virtual and the real world



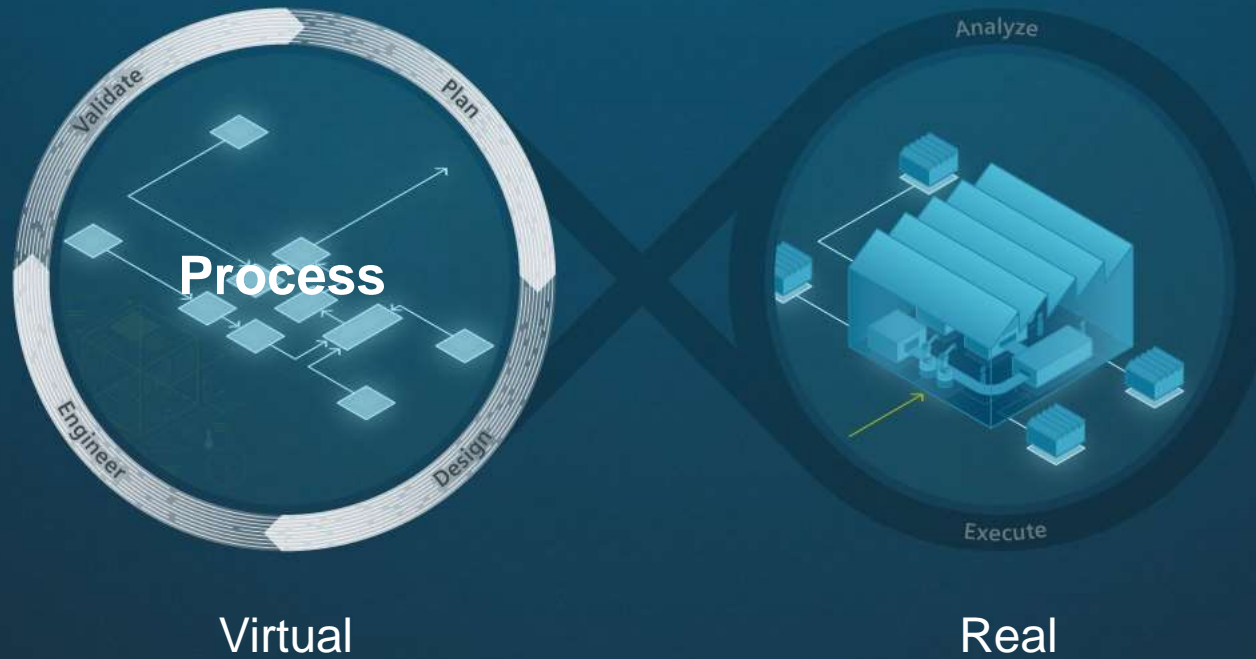
Virtual

Real

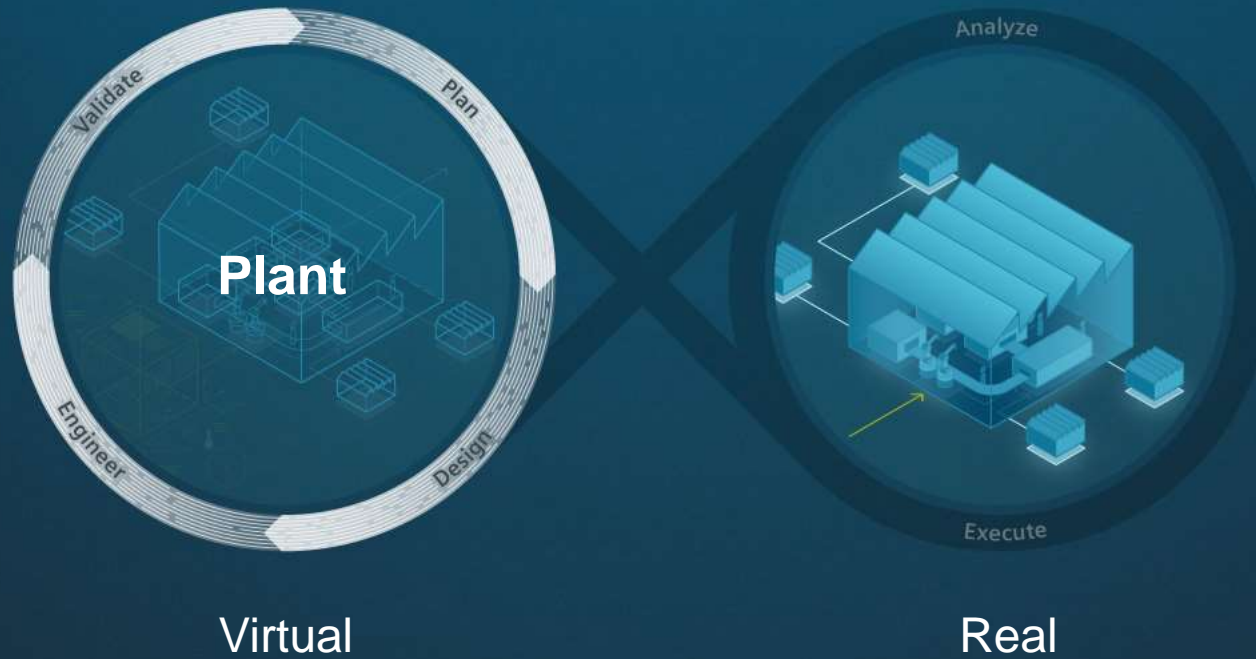
# Closed Loop Manufacturing



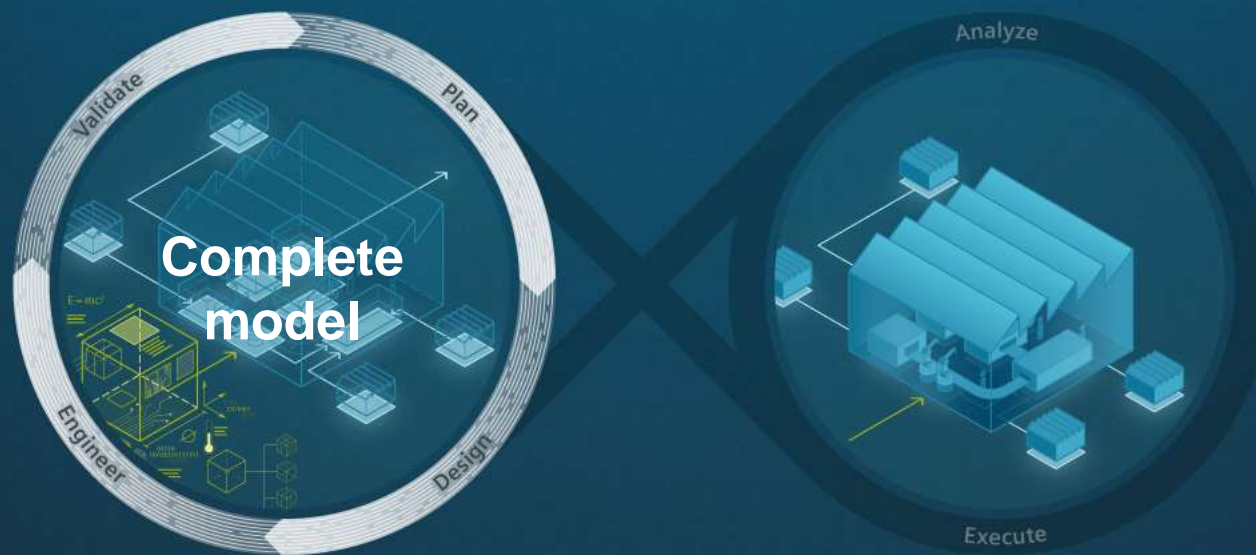
# Closed Loop Manufacturing



# Closed Loop Manufacturing



# Closed Loop Manufacturing



Virtual

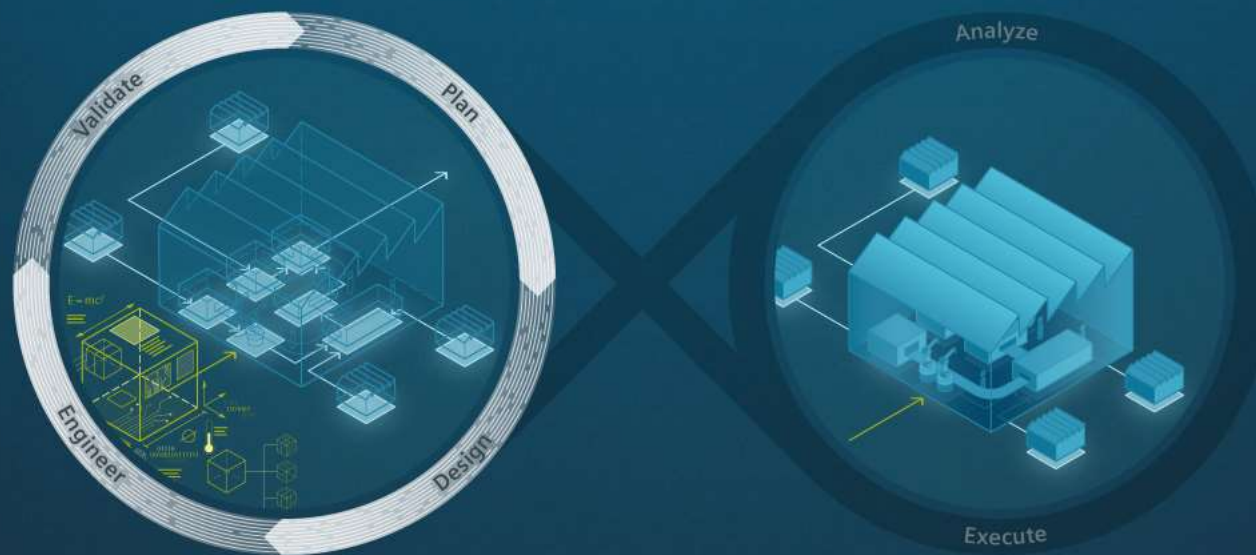
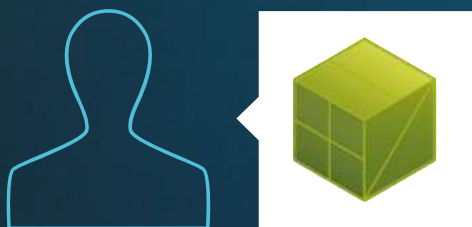
Real

# Closed Loop Manufacturing allows fast request confirmation





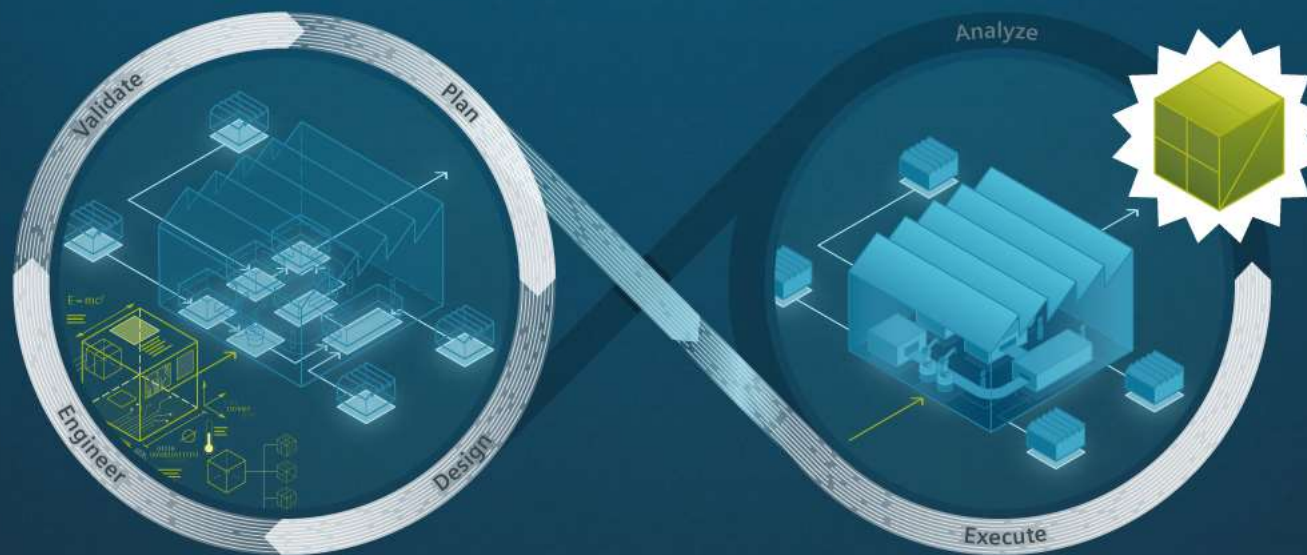
On order ...



Virtual

Real

... consistent execution at the push of a button

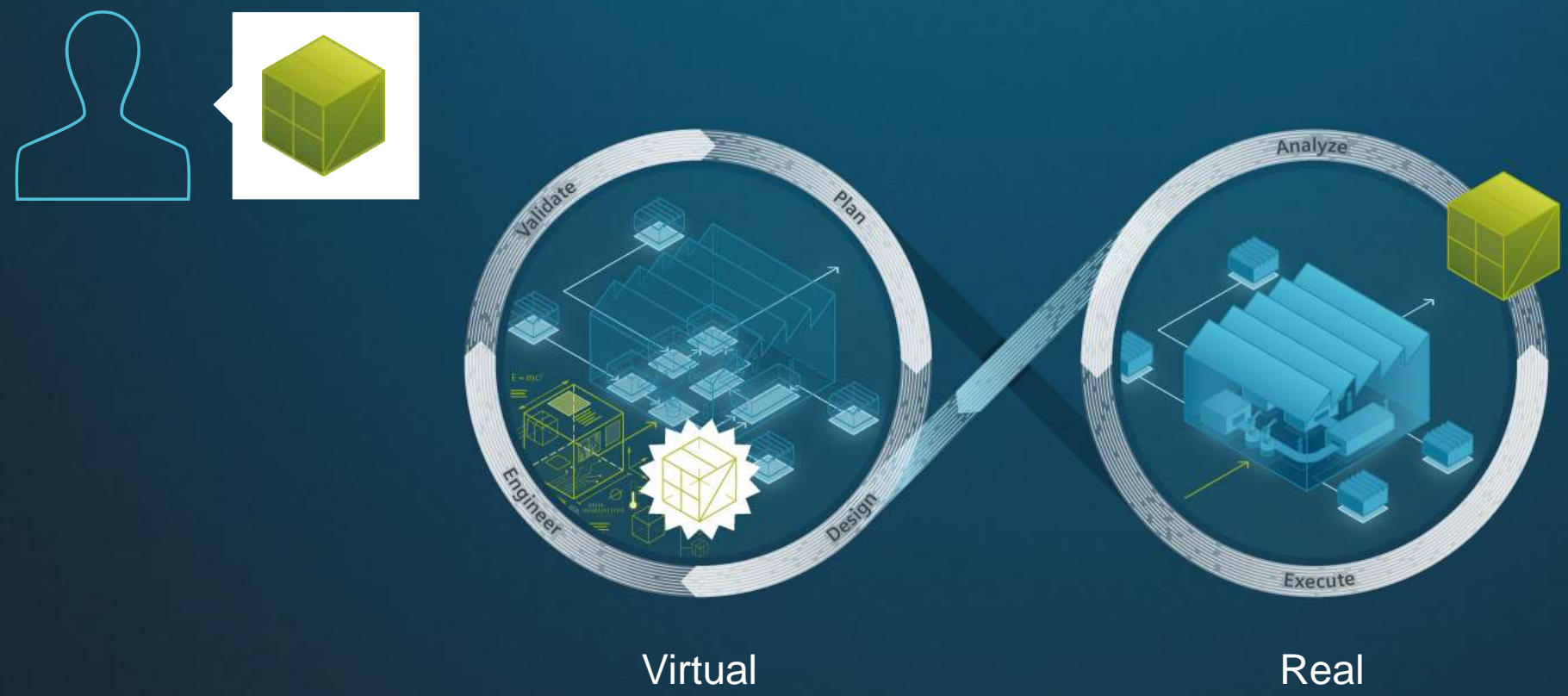


Virtual

Real

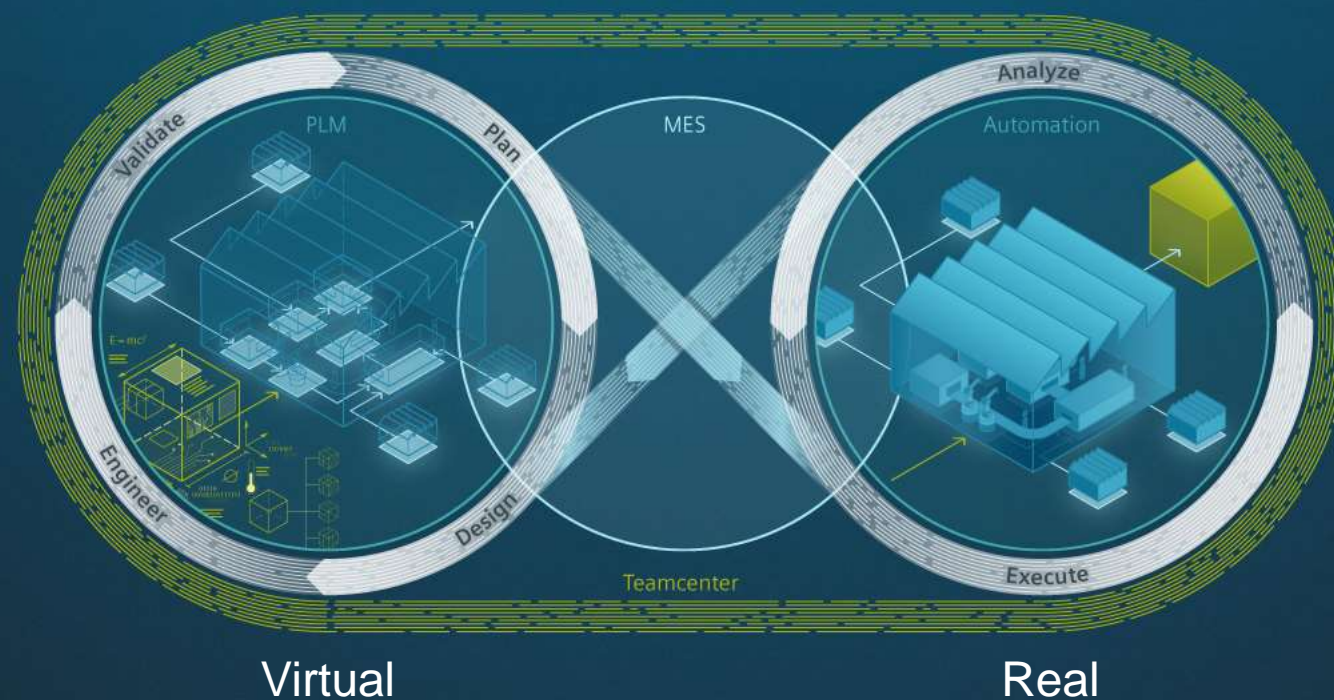


# Feeding back as-built information to nurture the Digital Twin

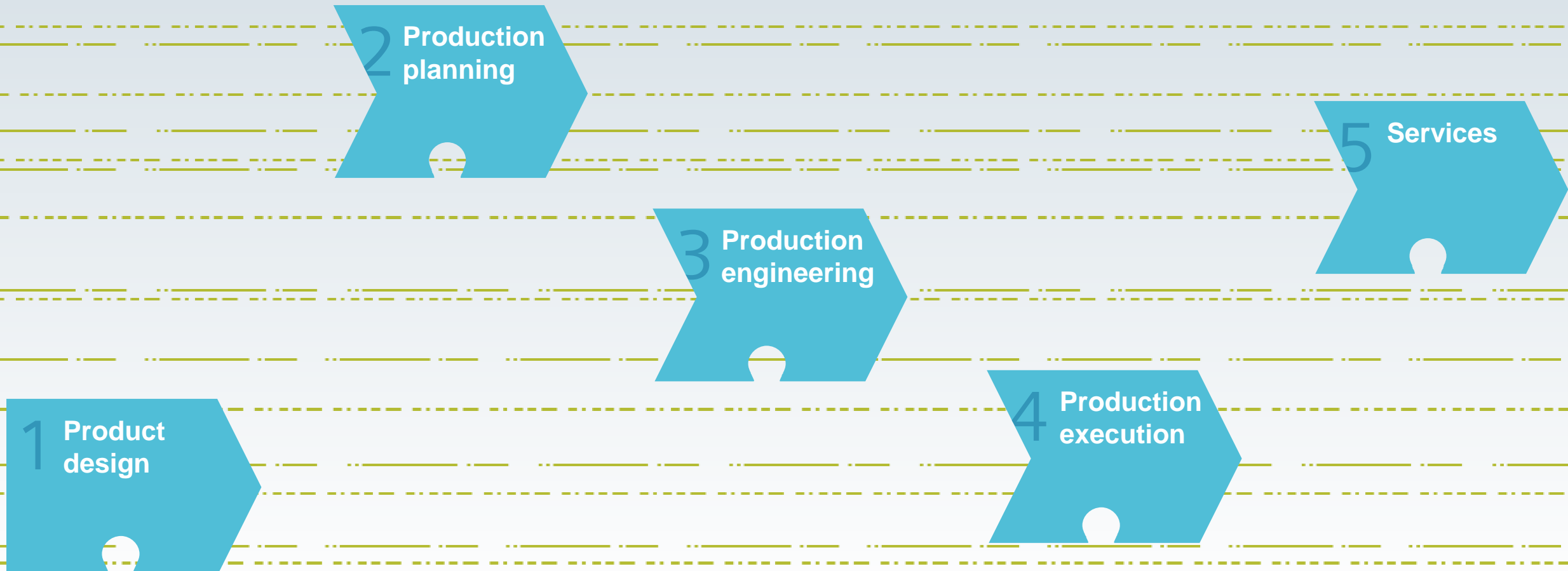


## Closed Loop Manufacturing

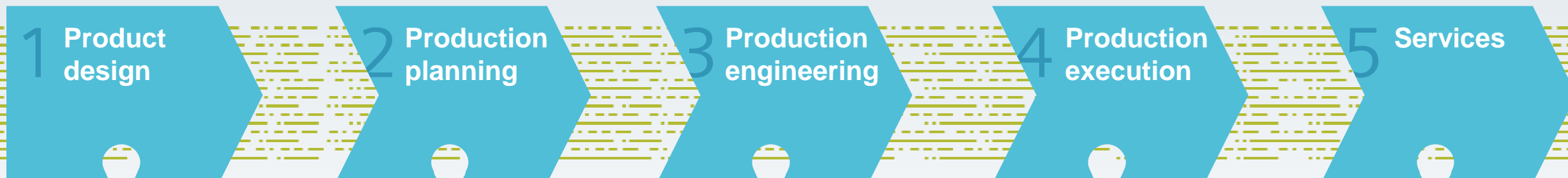
## Closed Loop Manufacturing



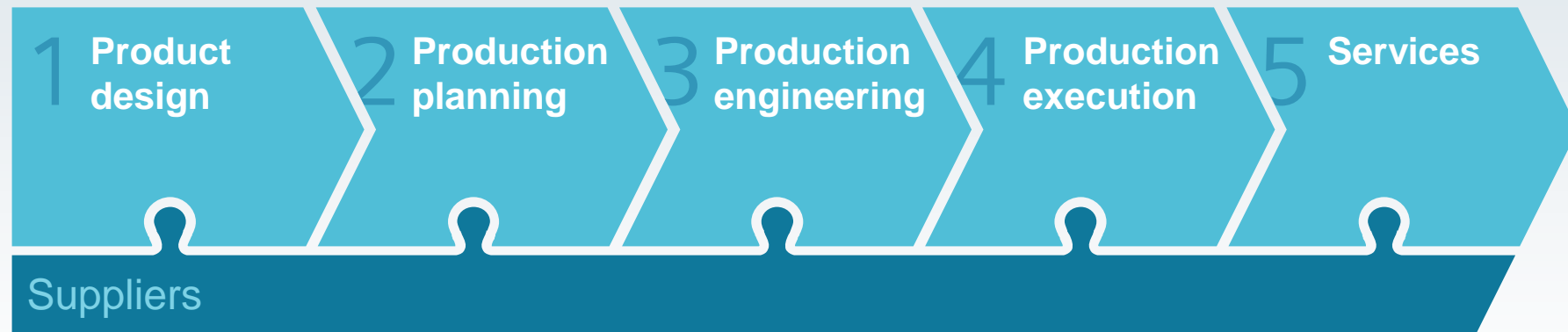
It is necessary to integrate and digitalize the entire value chain



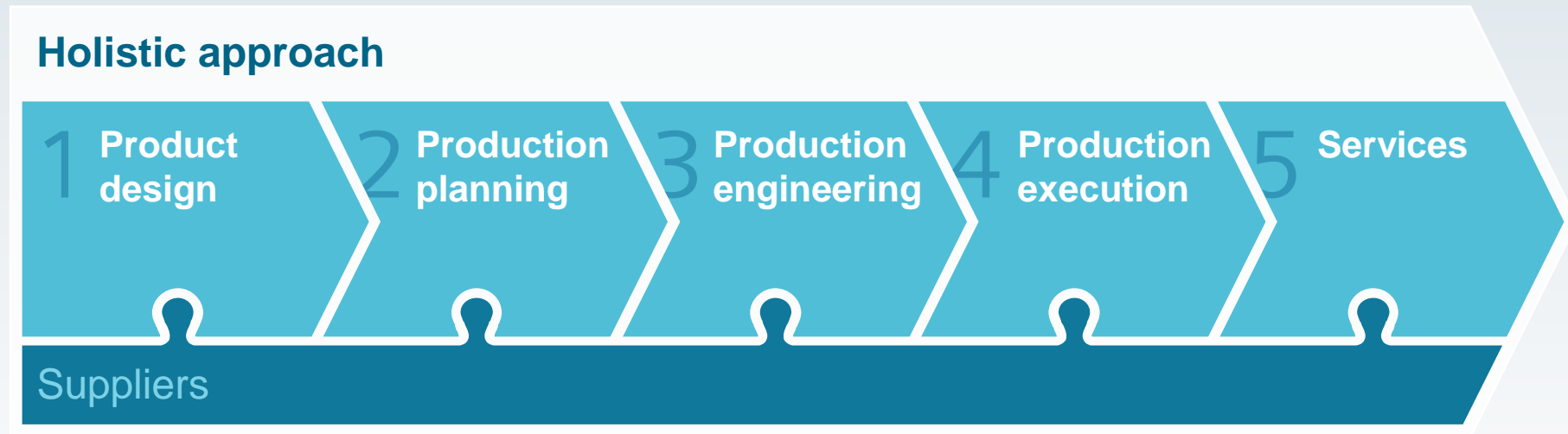
**It is necessary to integrate and digitalize the entire value chain**



# The holistic approach



# The holistic approach



## Holistic approach

1 Pr  
de

Digital Twin of the entire value chain

1 Product design

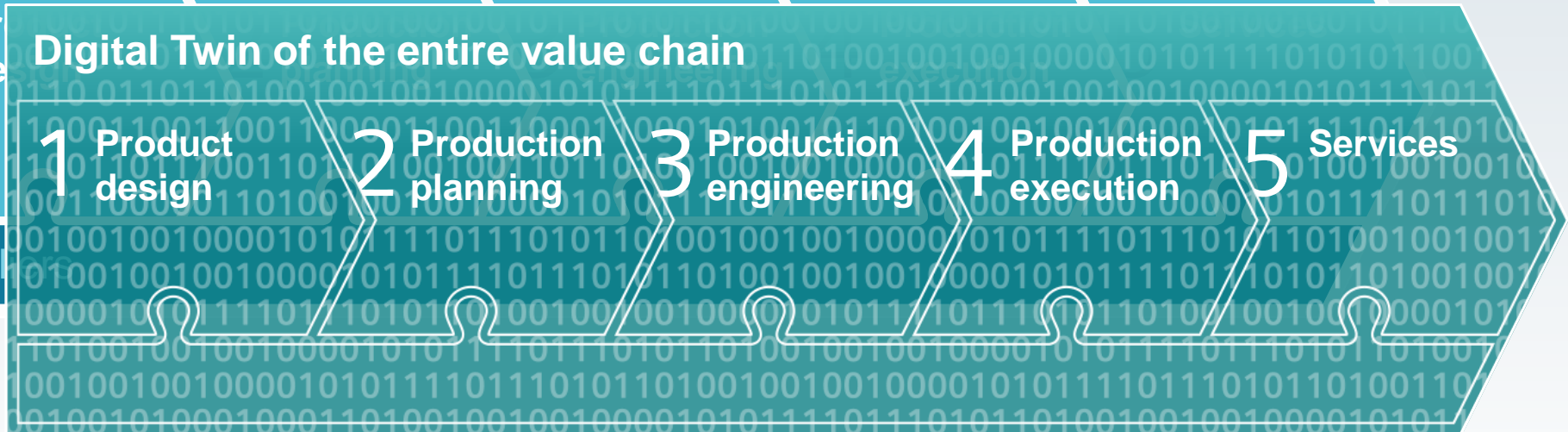
2 Production planning

3 Production engineering

4 Production execution

5 Services

Suppl



## Siemens' answer to Industrie 4.0

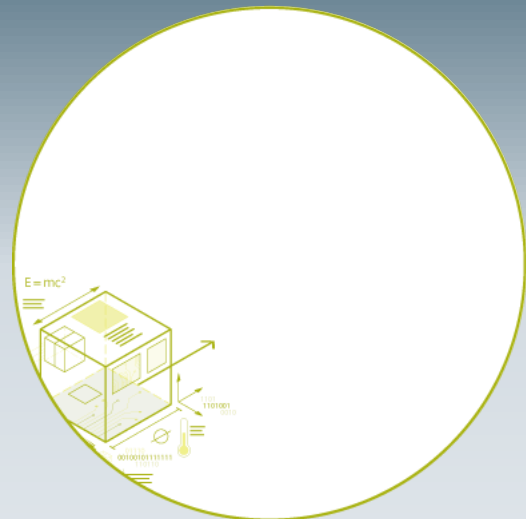
# Digital Enterprise Software Suite



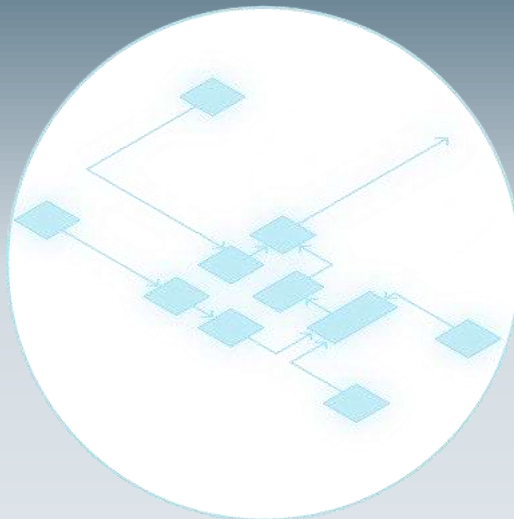
Siemens' answer  
to Industrie 4.0



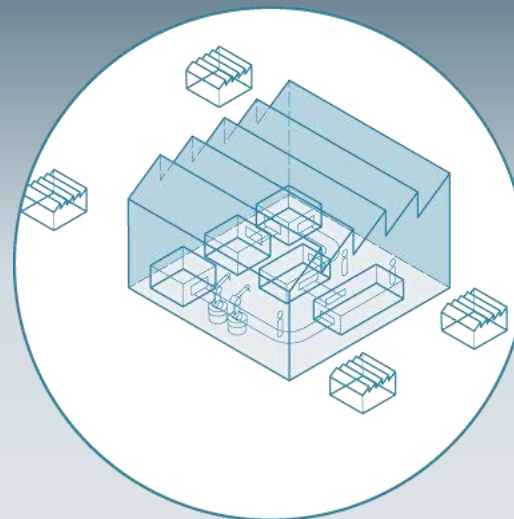
# Integrating technical domains into one data model



**Product Specs**

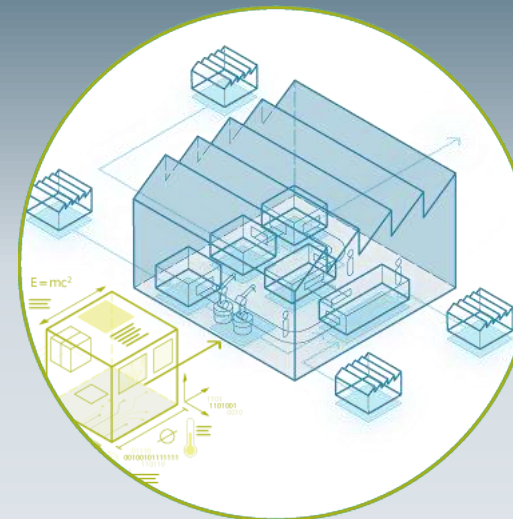


**Production process**



**Production Equipment**

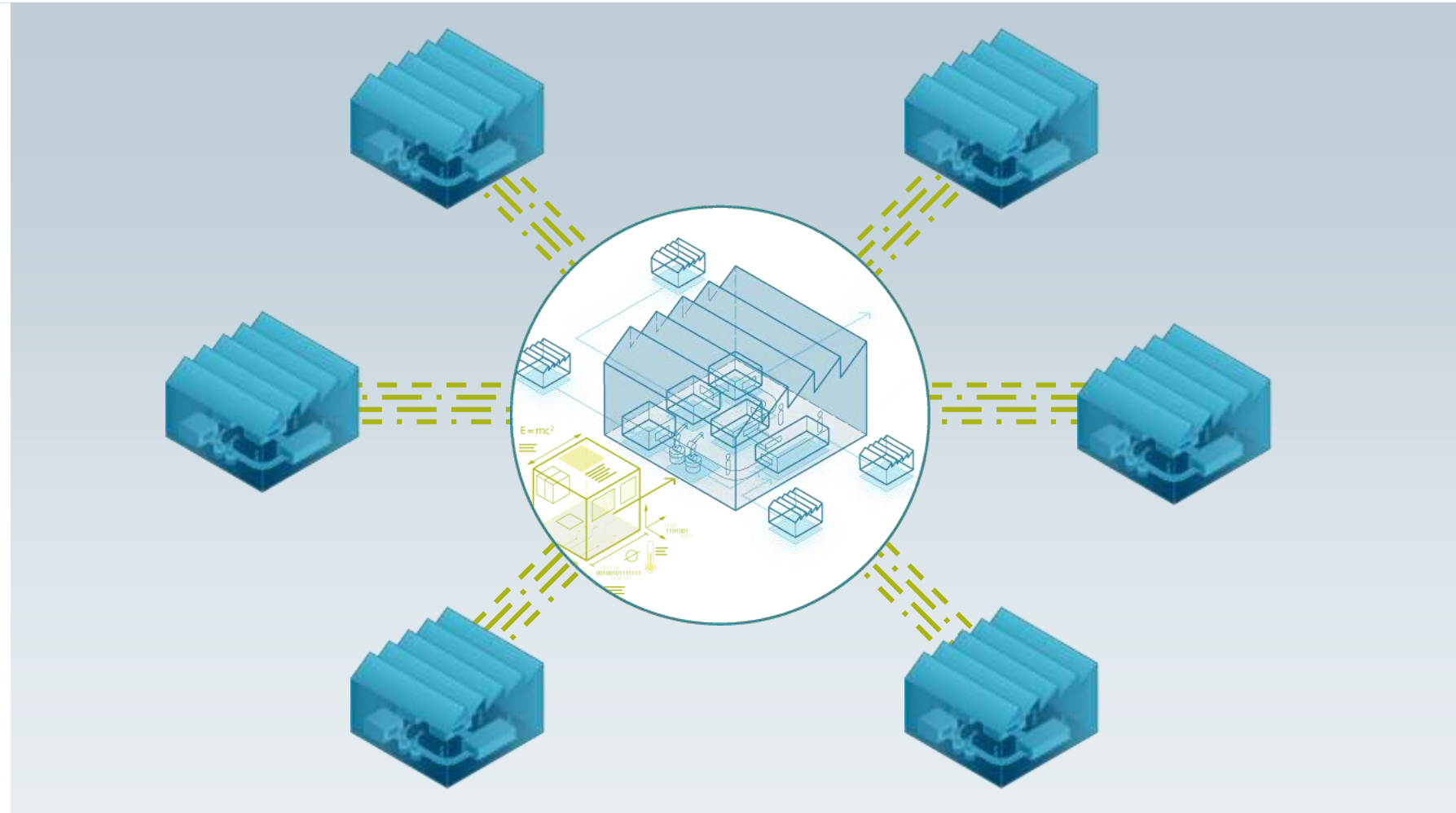
# Integrating technical domains into one data model



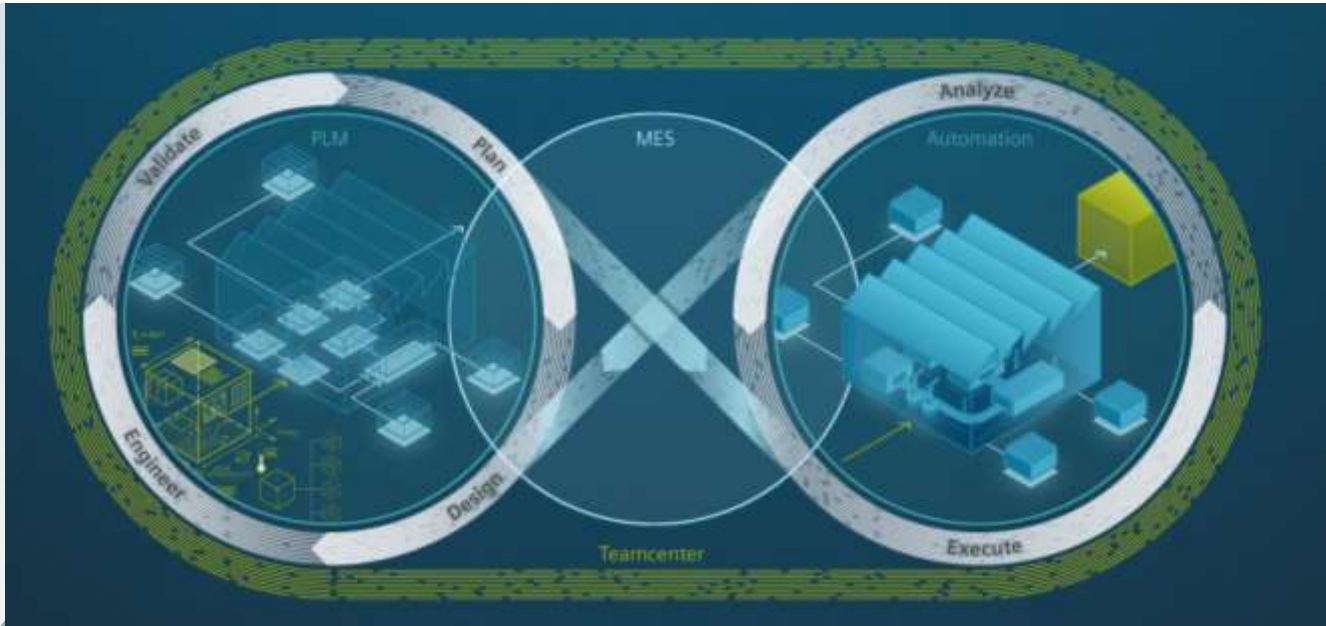
Digital Twin

# Publishing the optimized digital twin to all the stakeholders with the Collaboration Platform Teamcenter

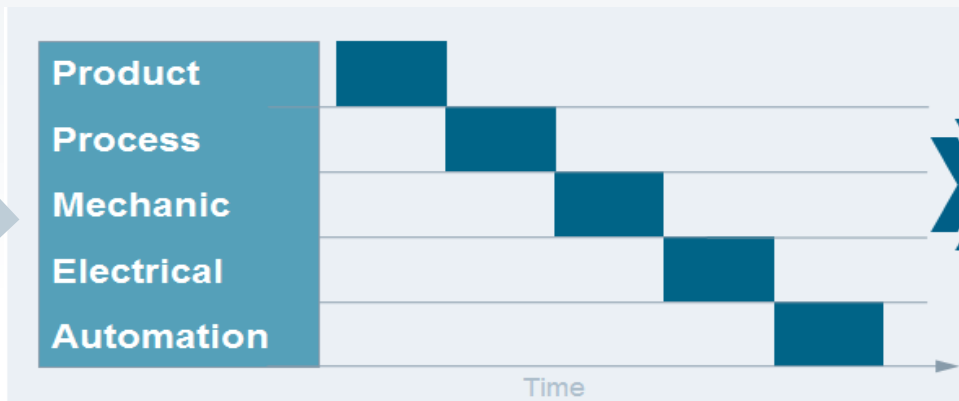
SIEMENS



# Evolution for the Product value chain workflow



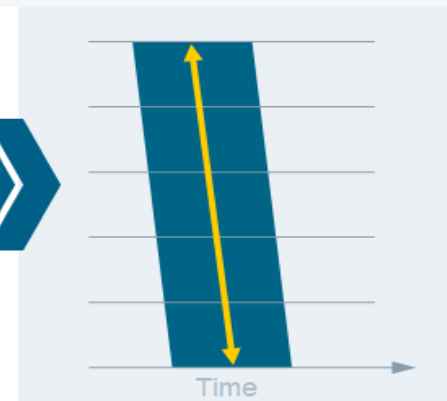
Yesterday



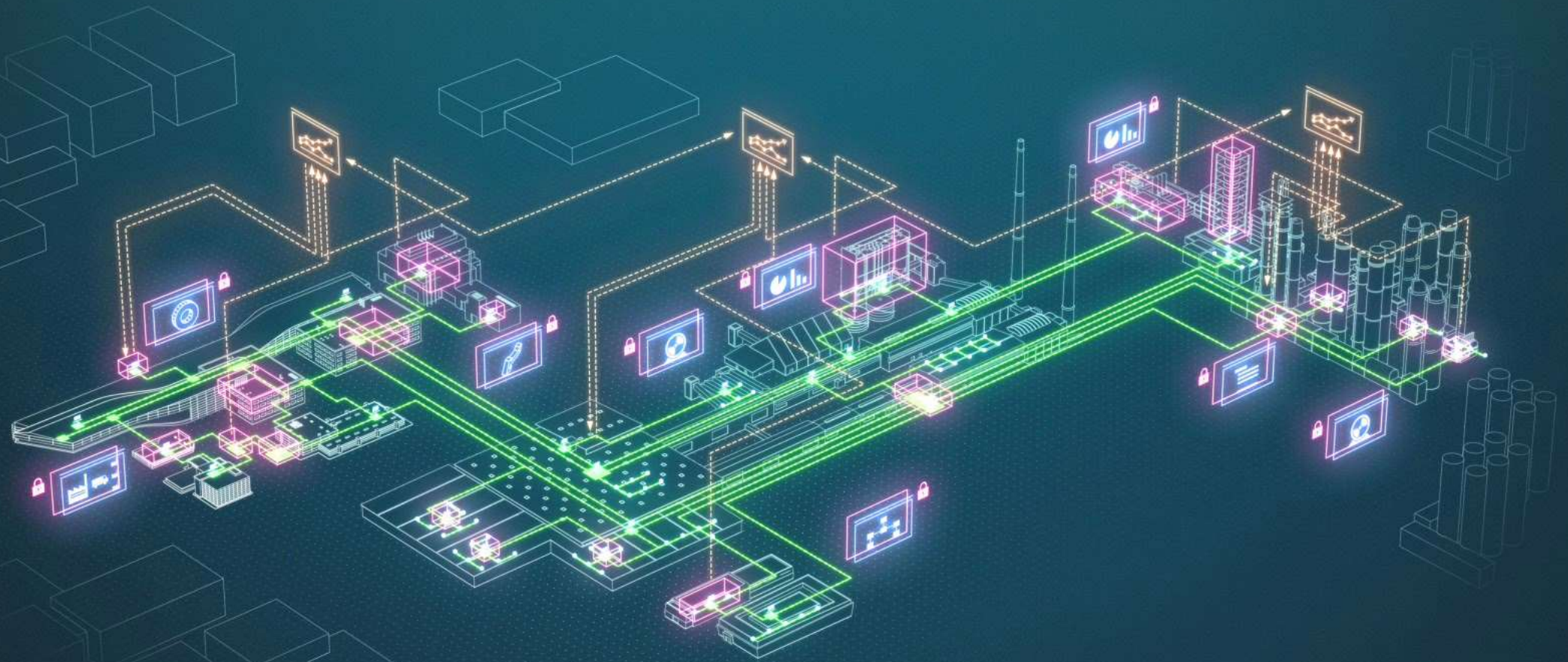
Today



Tomorrow







Now is the time to start –  
become a **Digital Enterprise**