

A blue car is shown on an assembly line, with a Siemens logo overlay in the top right corner. The background features a factory setting with yellow overhead cranes and a digital overlay of binary code (0s and 1s) and a wireframe car model on a laptop screen in the foreground.

SIEMENS
Ingenuity for life

Driving the Digital Enterprise for discrete industries

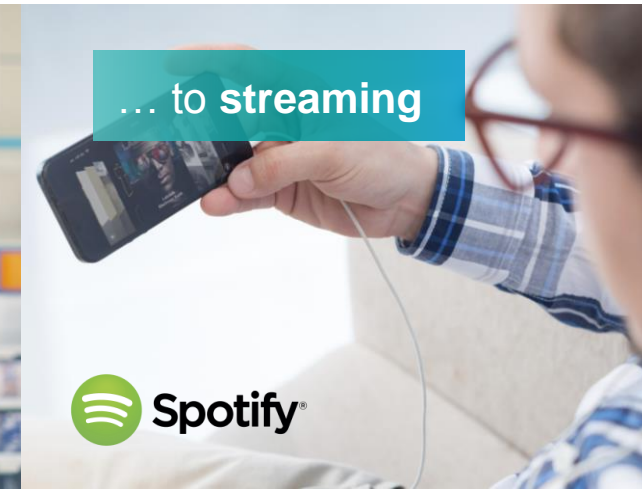
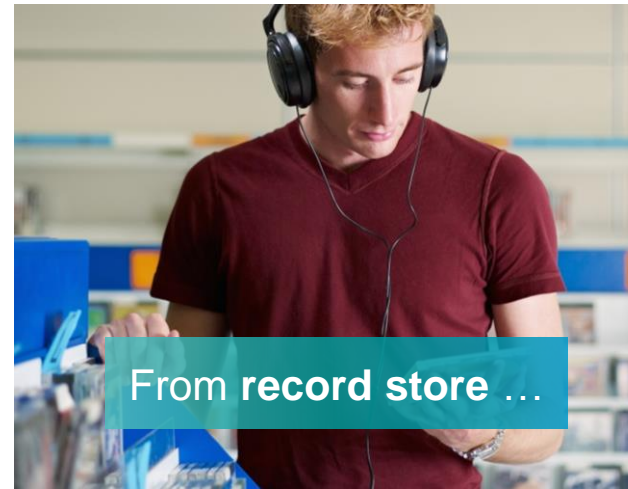
Filka Marian

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[siemens.com](https://www.siemens.com)

New business models in the internet age are disrupting complete markets

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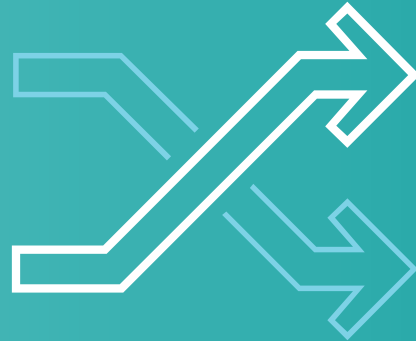
Our customers have essential requirements –
throughout the manufacturing industry

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Speed



Flexibility



Quality



Efficiency



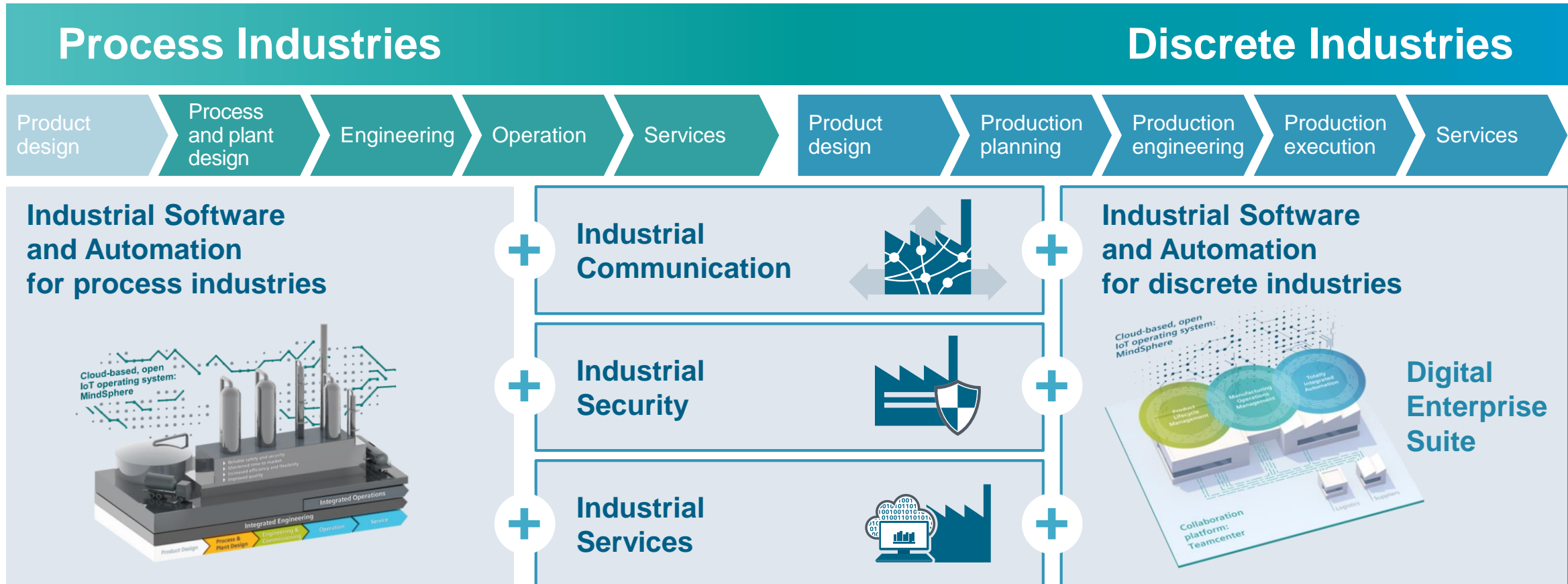
Security



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

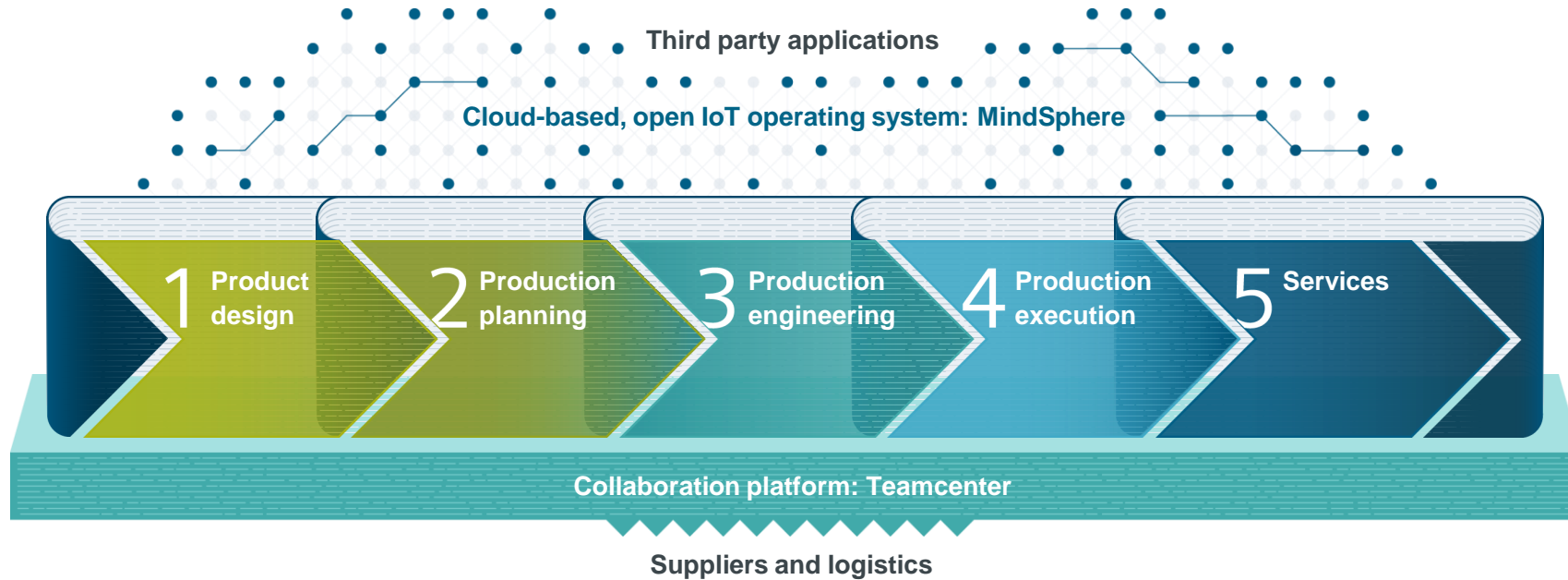


Digital Enterprise

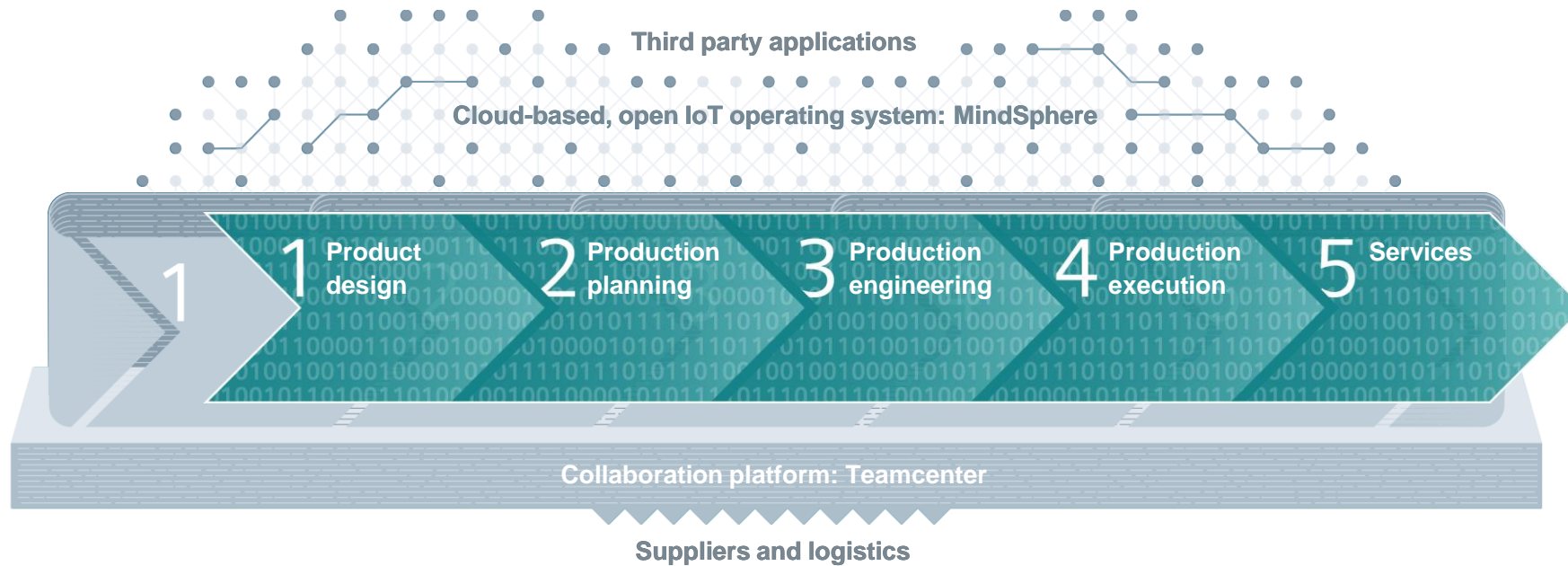


Analyze assets as they perform with MindSphere and feed back insights to continuously optimize the value chain

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Create a powerful Digital Twin of the entire value chain

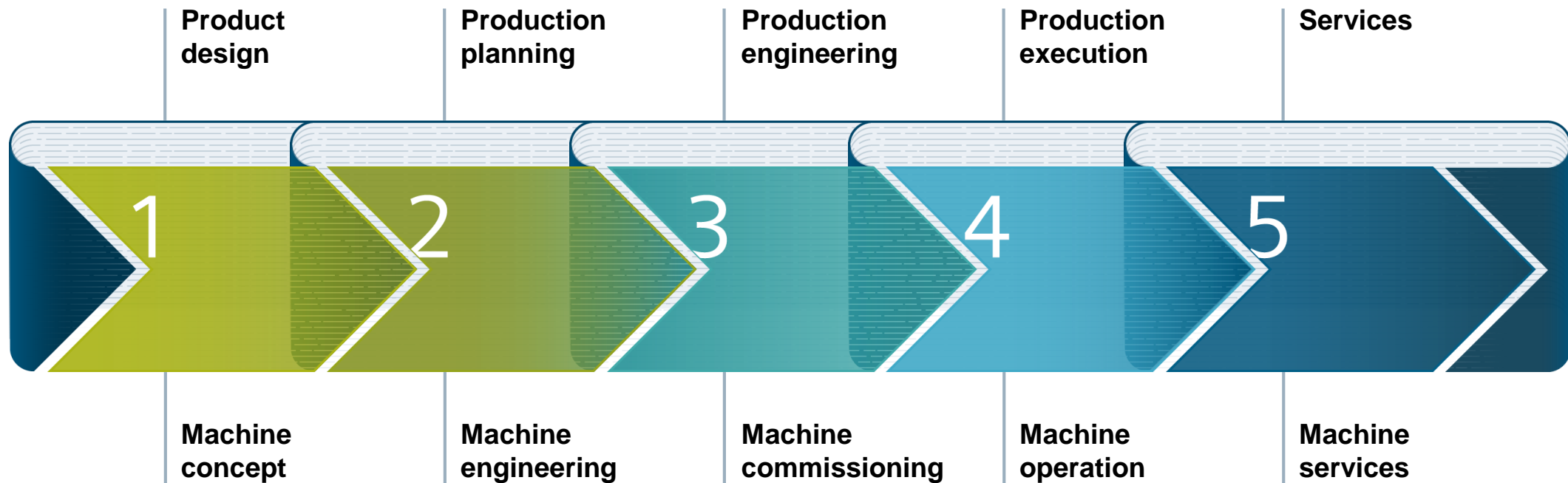


Our holistic approach

Specific for product manufacturers and machine builders



Product manufacturer perspective



Machine builder perspective

SIEMENS

SIMATIC FIELD PG

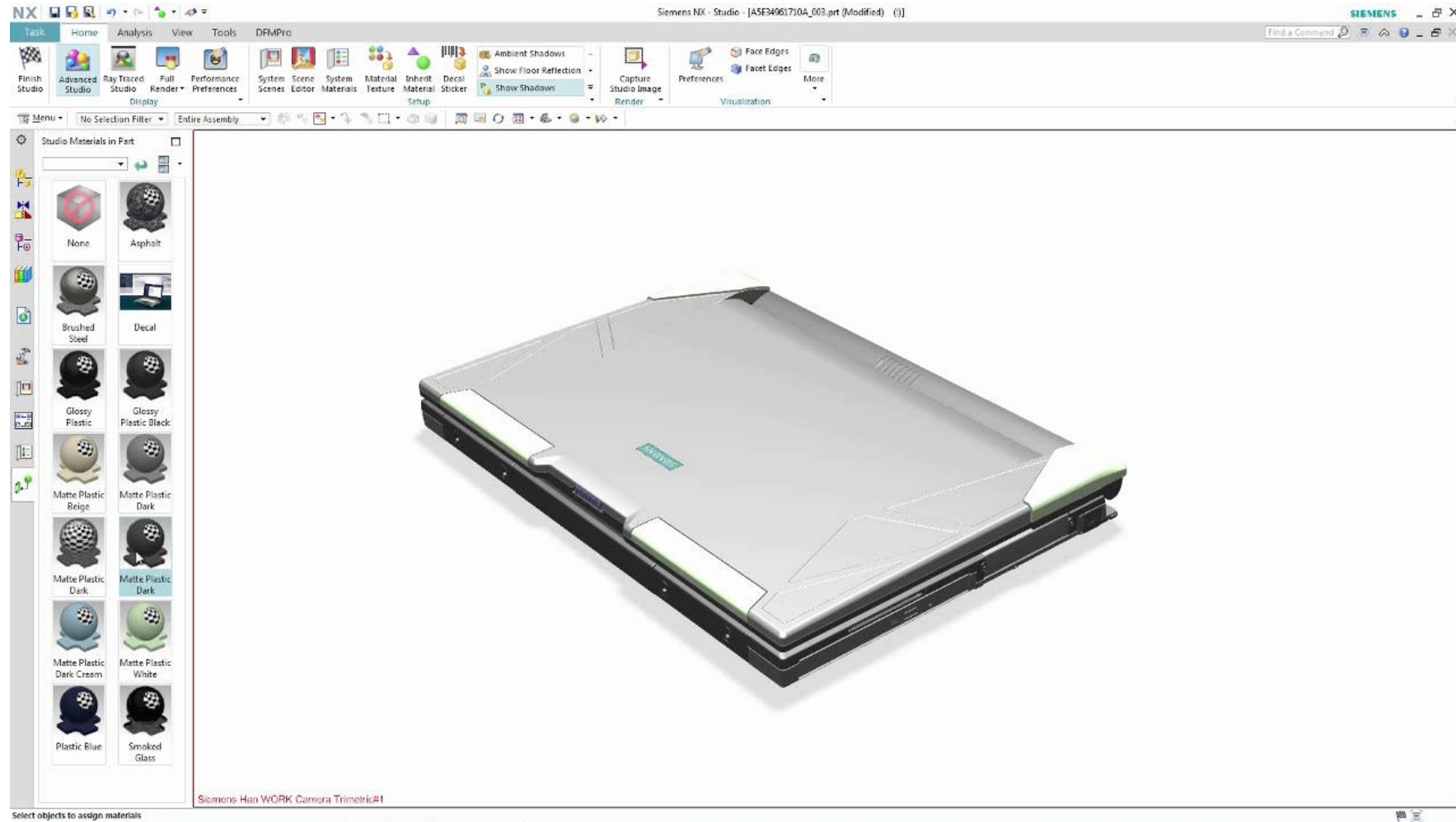


Product design

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Design and
simulate
the product

NX CAD/CAE/CAM

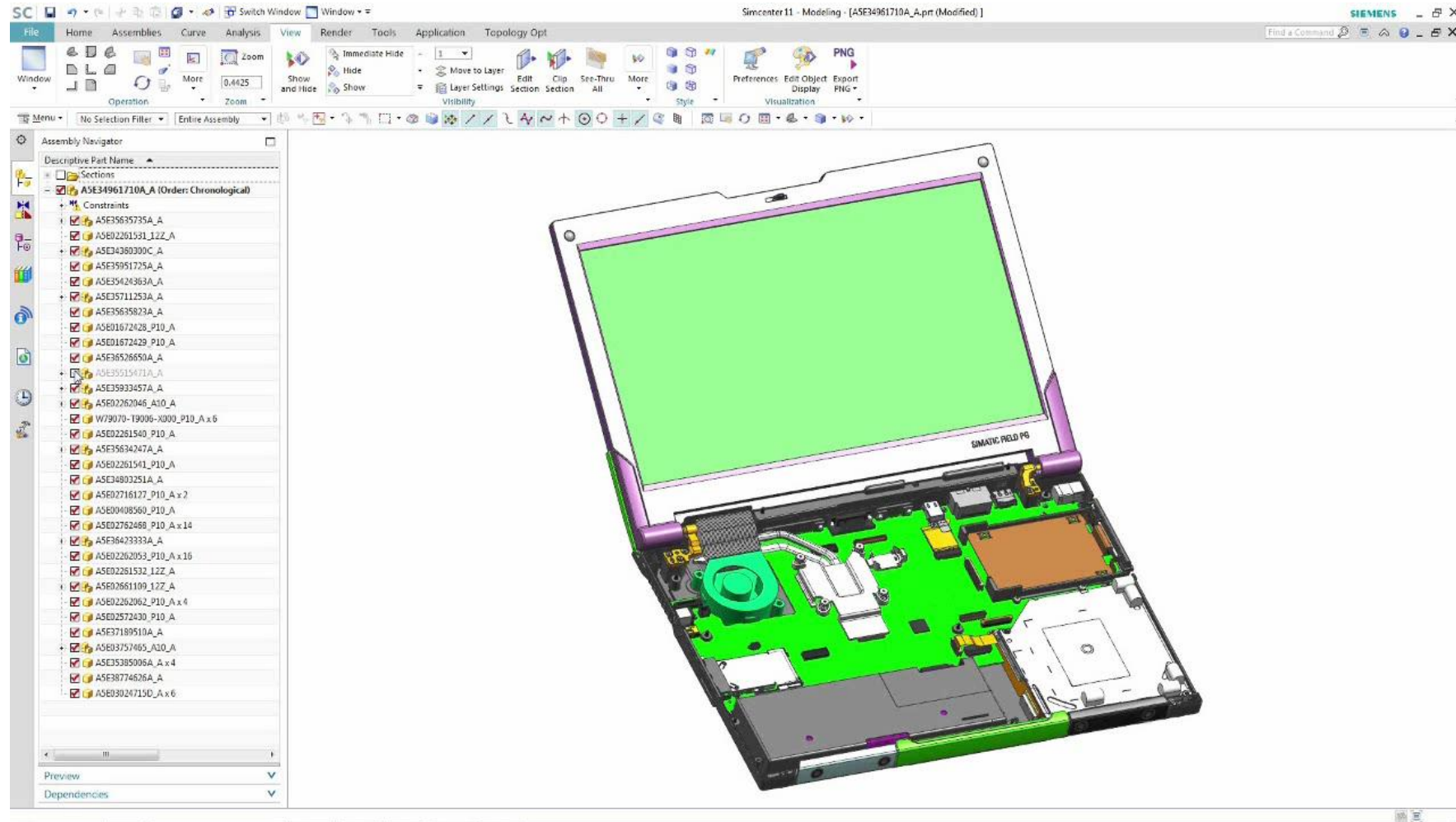


Product design



Simulate
the physical
behavior

Simcenter

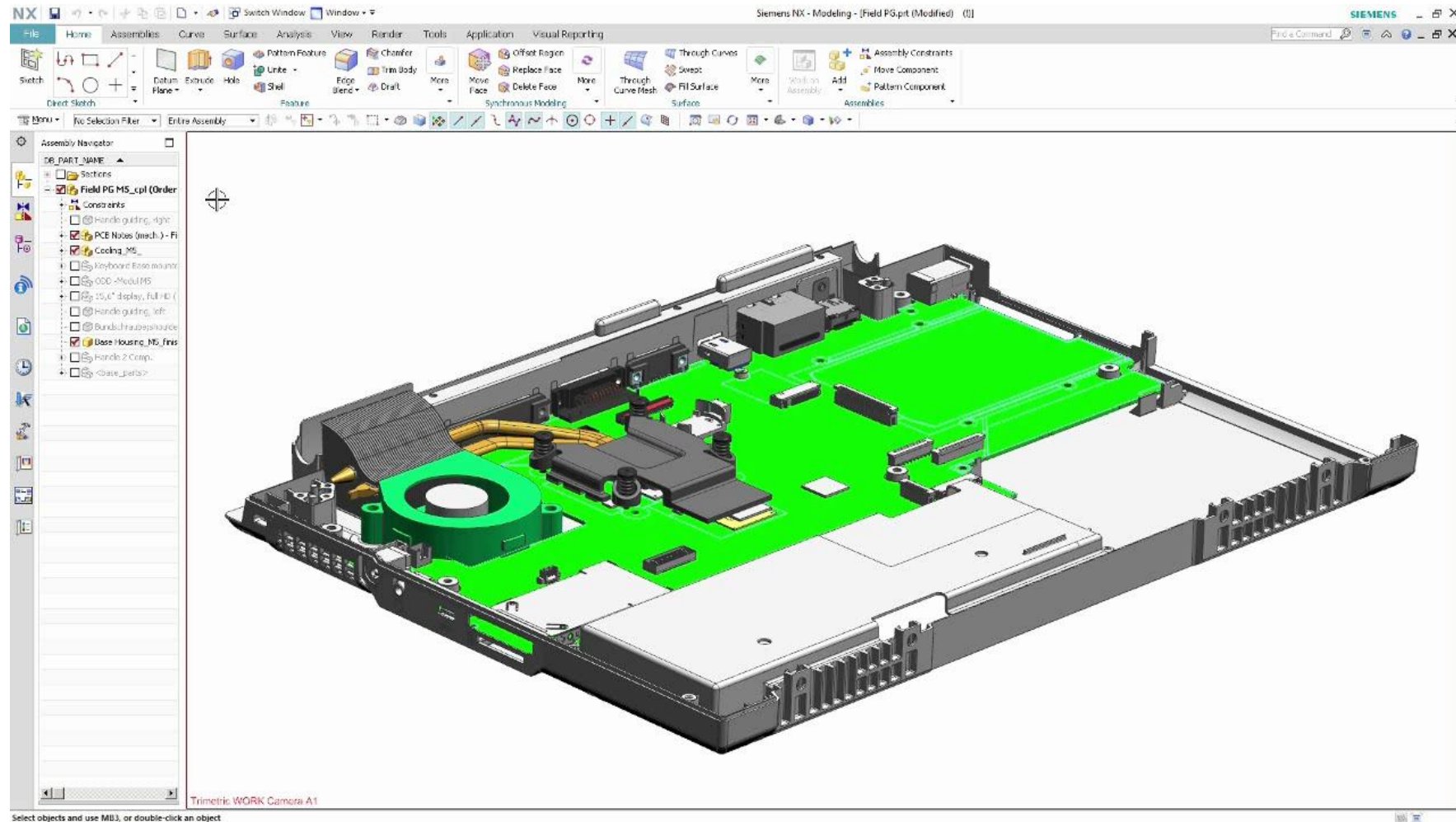


Product design

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Perfect your
product in the
virtual world

NX CAD/CAE/CAM



Product design

Design and
simulate
electronic
systems

Mentor Graphics



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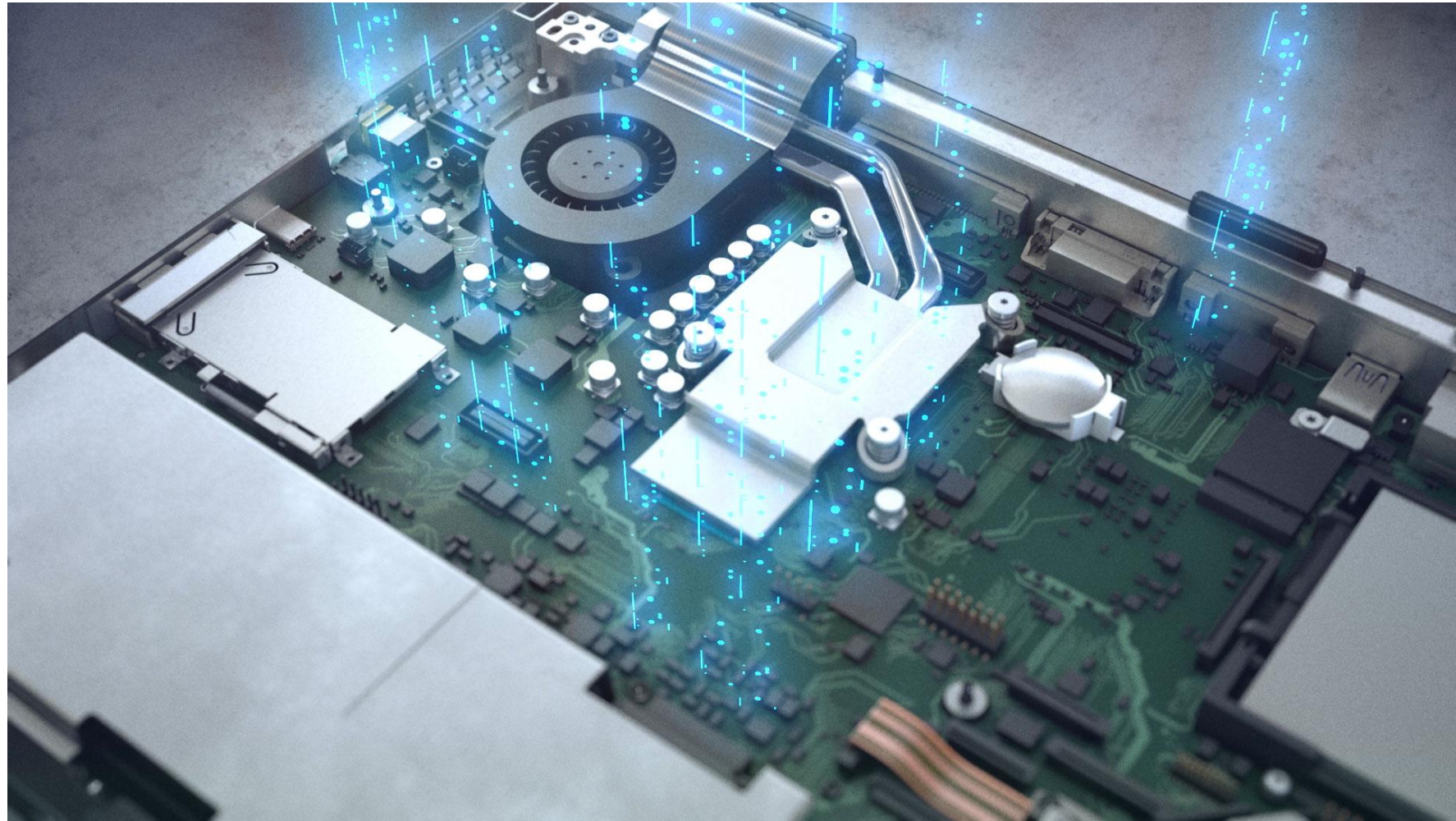
**Mentor
Graphics**
A Siemens Business

Product design

SIEMENS
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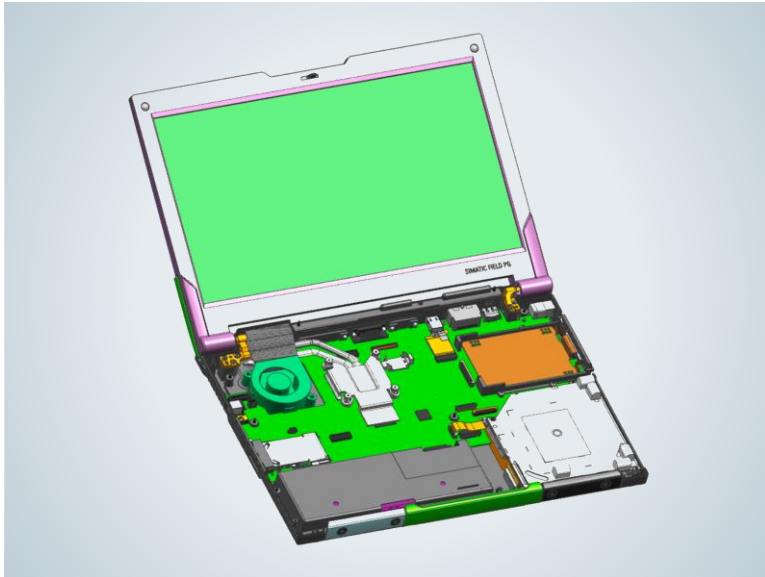
Develop,
simulate,
validate,
and manage
embedded
software

Polarion ALM

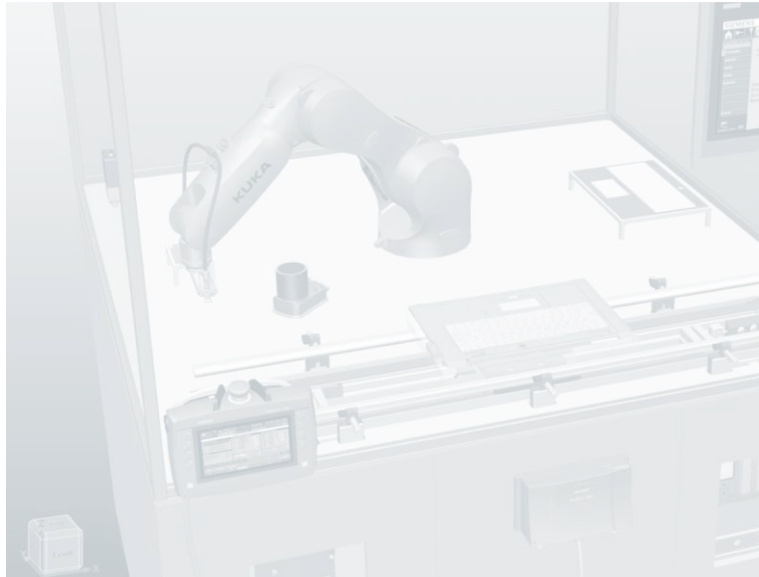


Digital Twin

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Digital Twin of
the product



Digital Twin of
the production



Digital Twin of
the performance

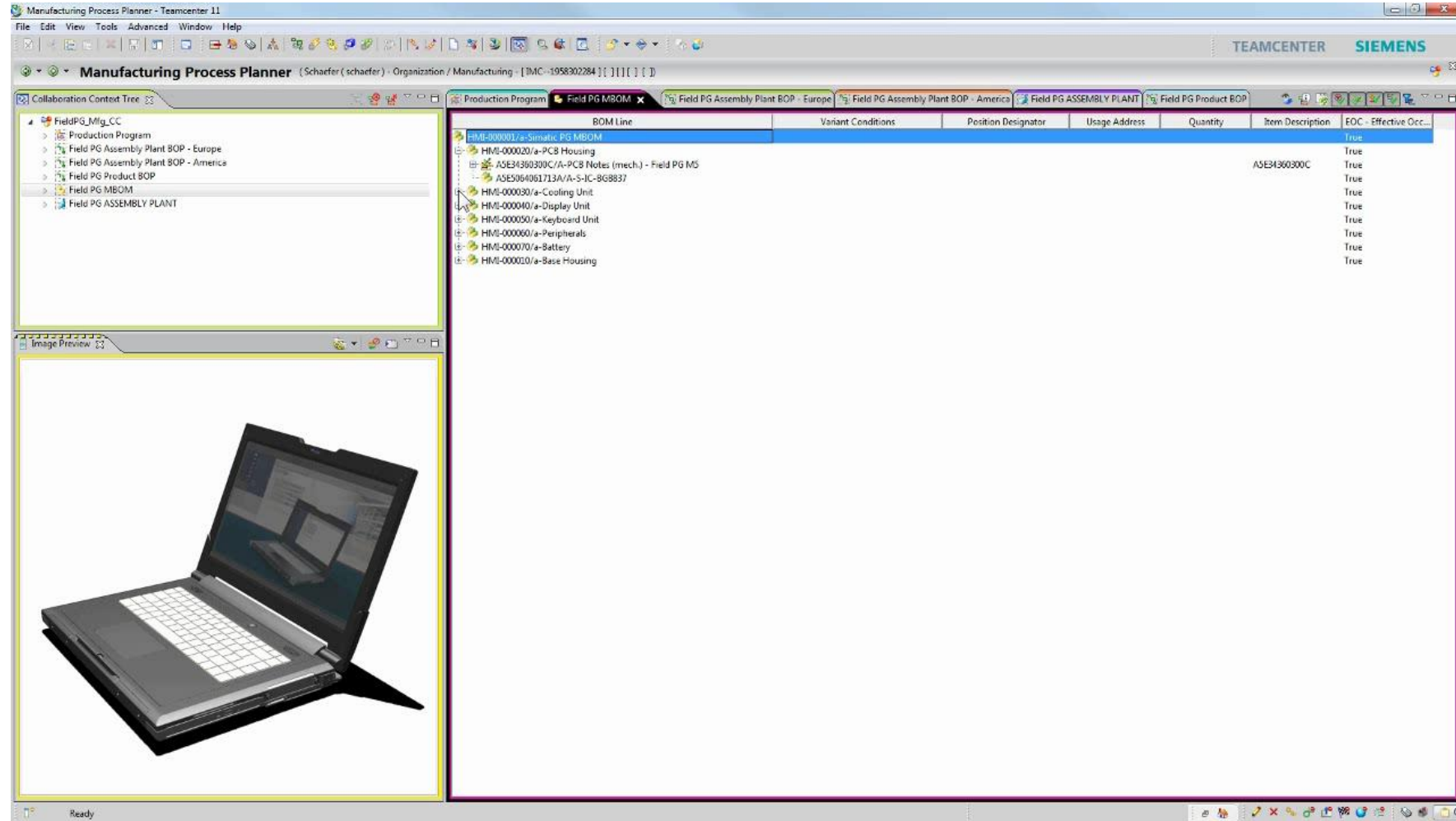


Production planning

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Plan and
validate your
production
process

Teamcenter
Manufacturing



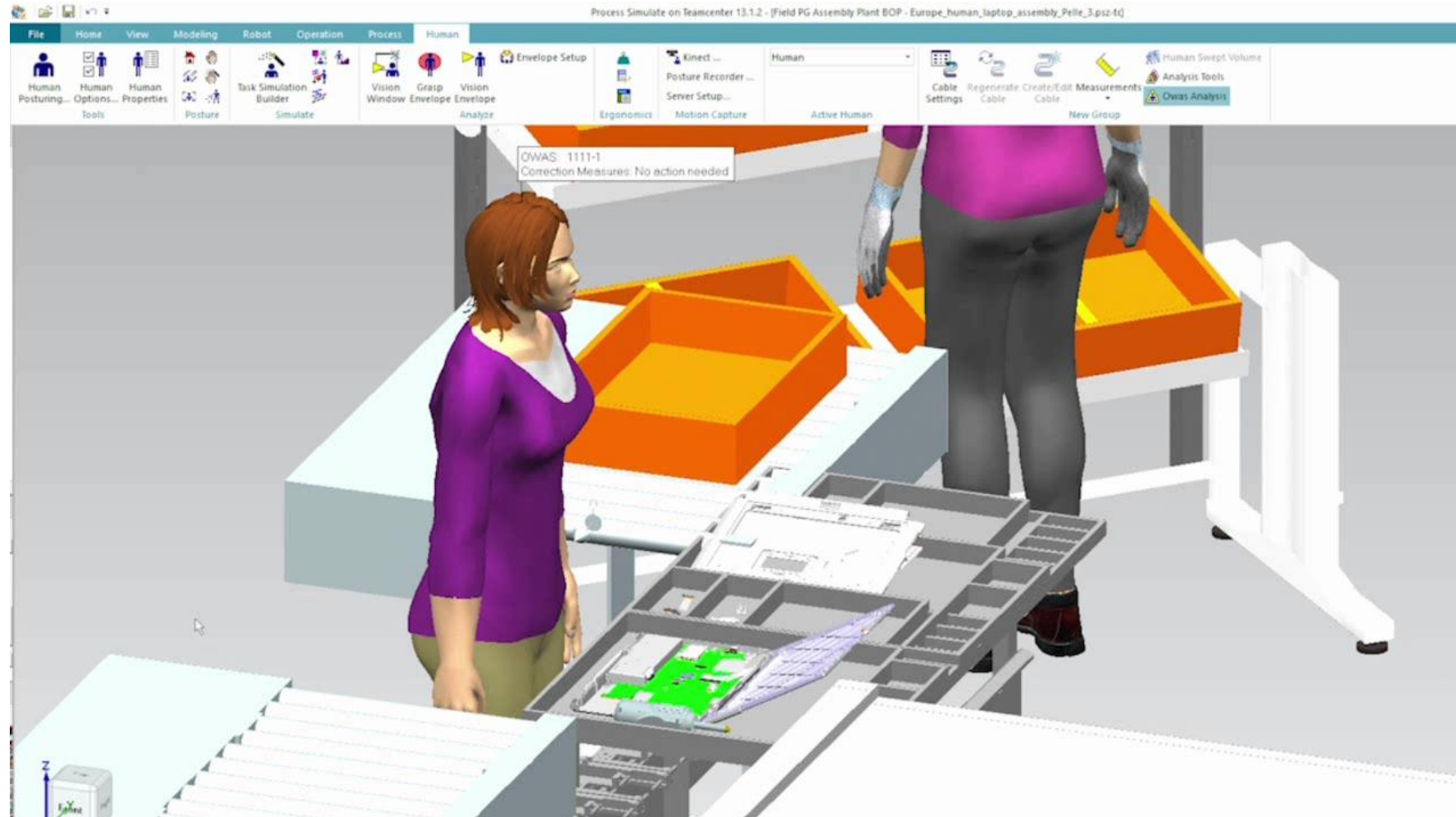
BOM Line	Variant Conditions	Position Designator	Usage Address	Quantity	Item Description	EOC - Effective Occ...
HMI-000001/a-Simatic PG MBOM						True
HMI-000020/a-PCB Housing						True
ASE34360300C/A-PCB Notes (mech.) - Field PG M5					ASE34360300C	True
ASE3064061713A/A-S-IC-8G8837						True
HMI-000030/a-Cooling Unit						True
HMI-000040/a-Display Unit						True
HMI-000050/a-Keyboard Unit						True
HMI-000060/a-Peripherals						True
HMI-000070/a-Battery						True
HMI-000010/a-Base Housing						True

Production planning

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Simulate
working
conditions
for humans

Tecnomatix
Process Simulate

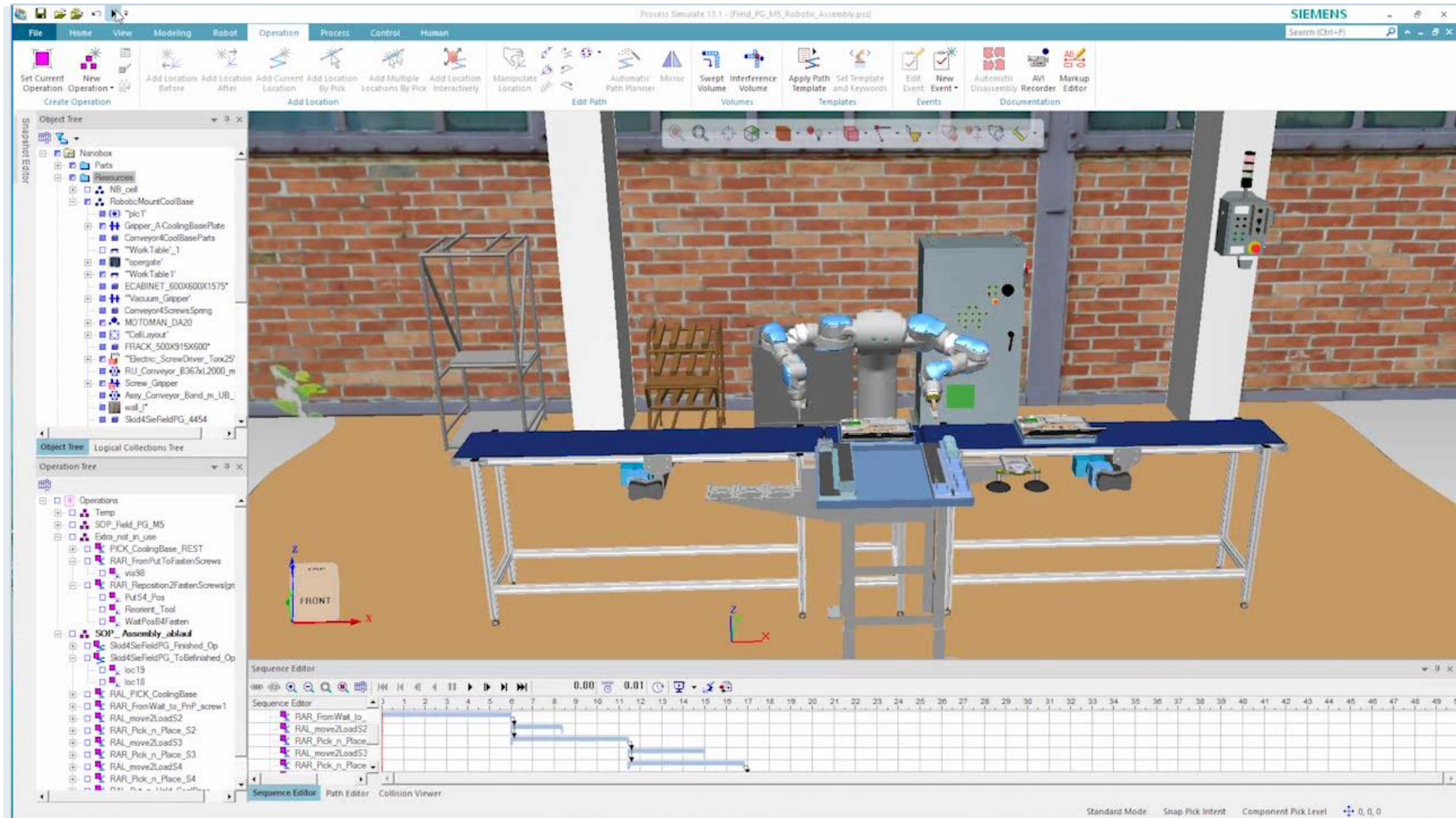


Production planning



Simulate work processes for robots

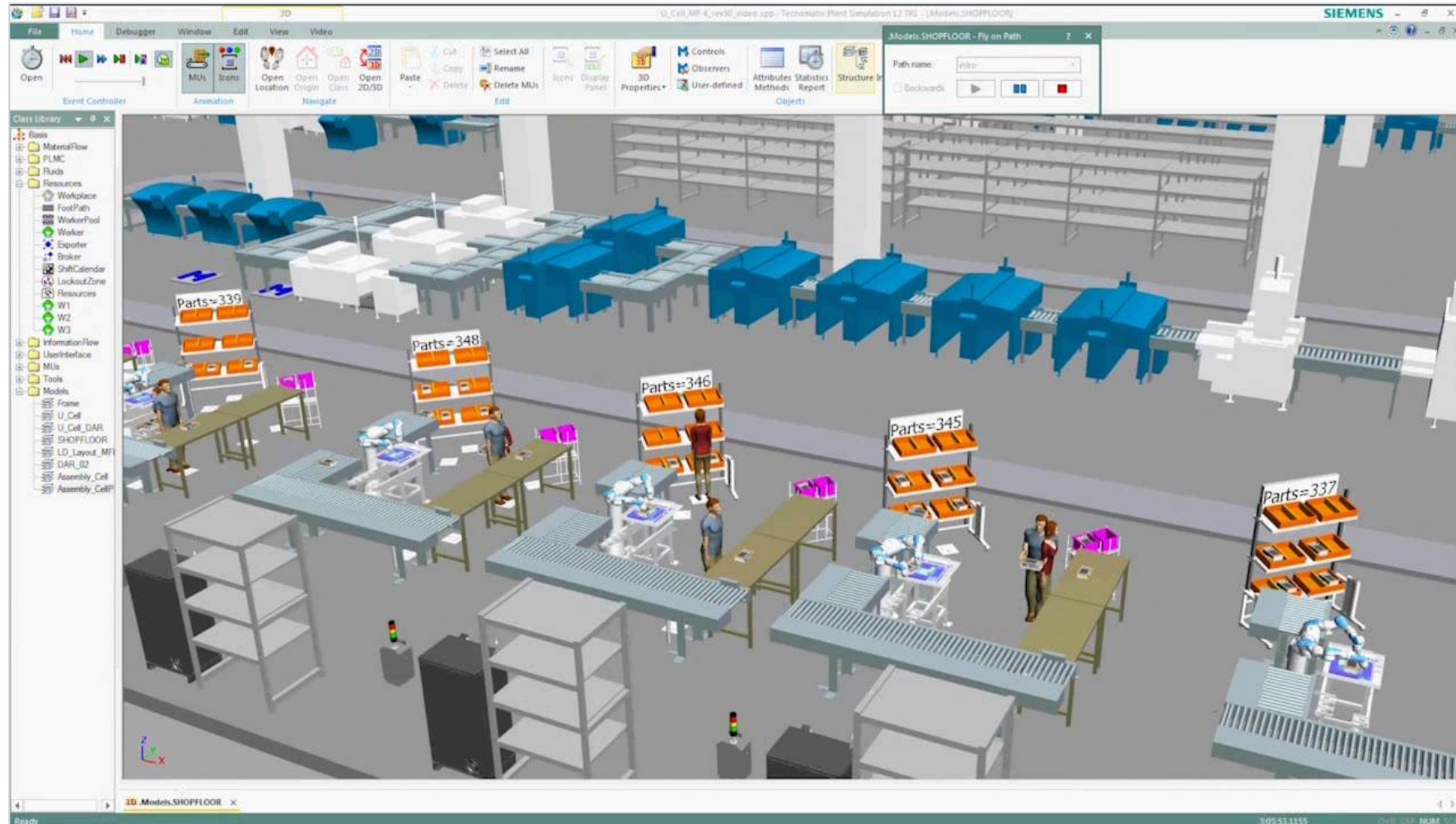
Tecnomatix
Process Simulate



Production planning

Simulate and optimize your production processes

Tecnomatix
Plant Simulation

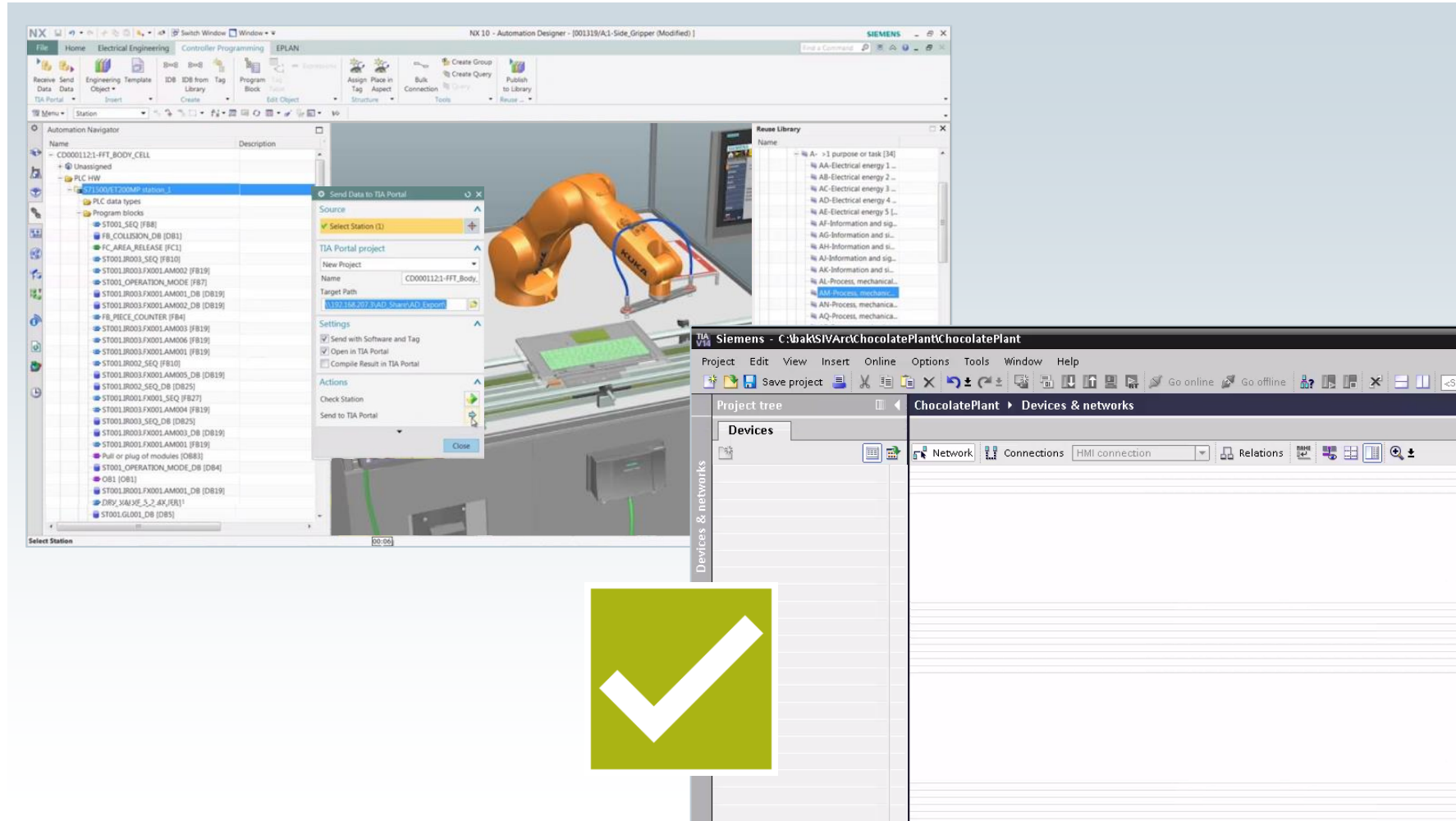


Production engineering



Automatically generate the PLC code for TIA Portal

Production Systems Engineering

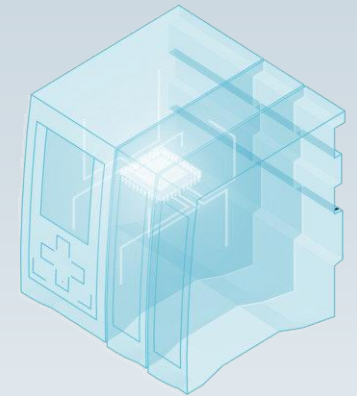
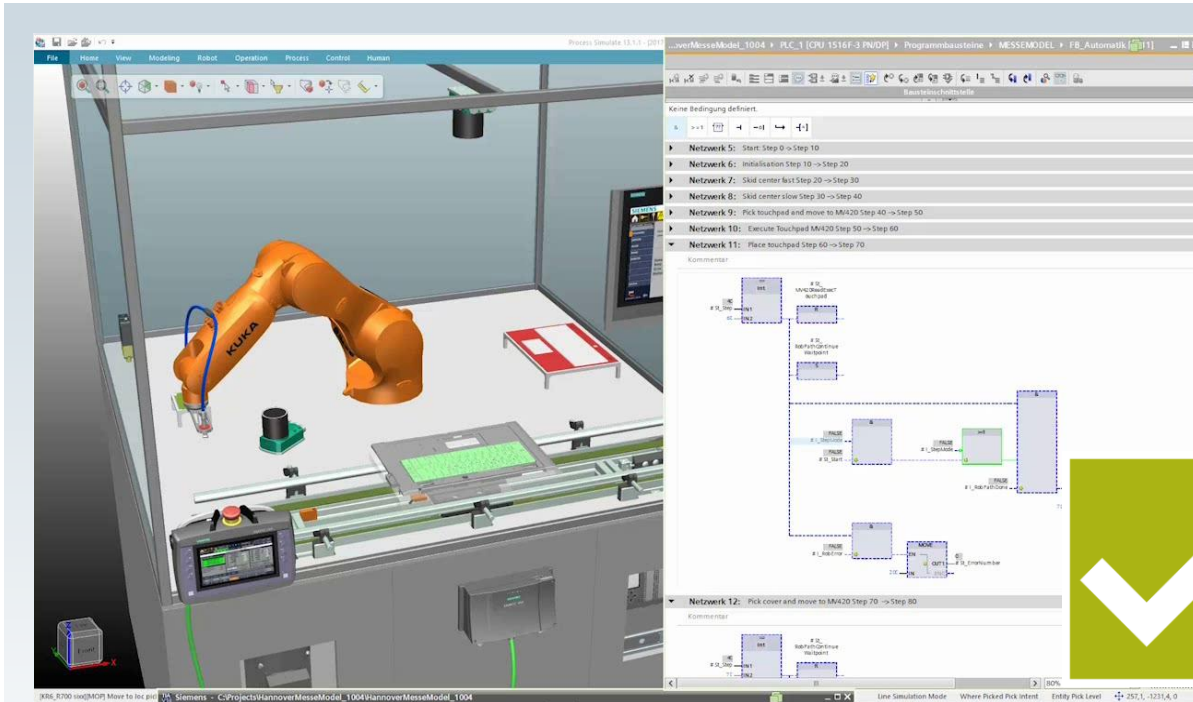


Production engineering

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Validate the
PLC code
in the virtual
world

Tecnomatix
Process Simulate,
PLCSIM Advanced,
TIA Portal



Digital Twin
of SIMATIC
S7-1500

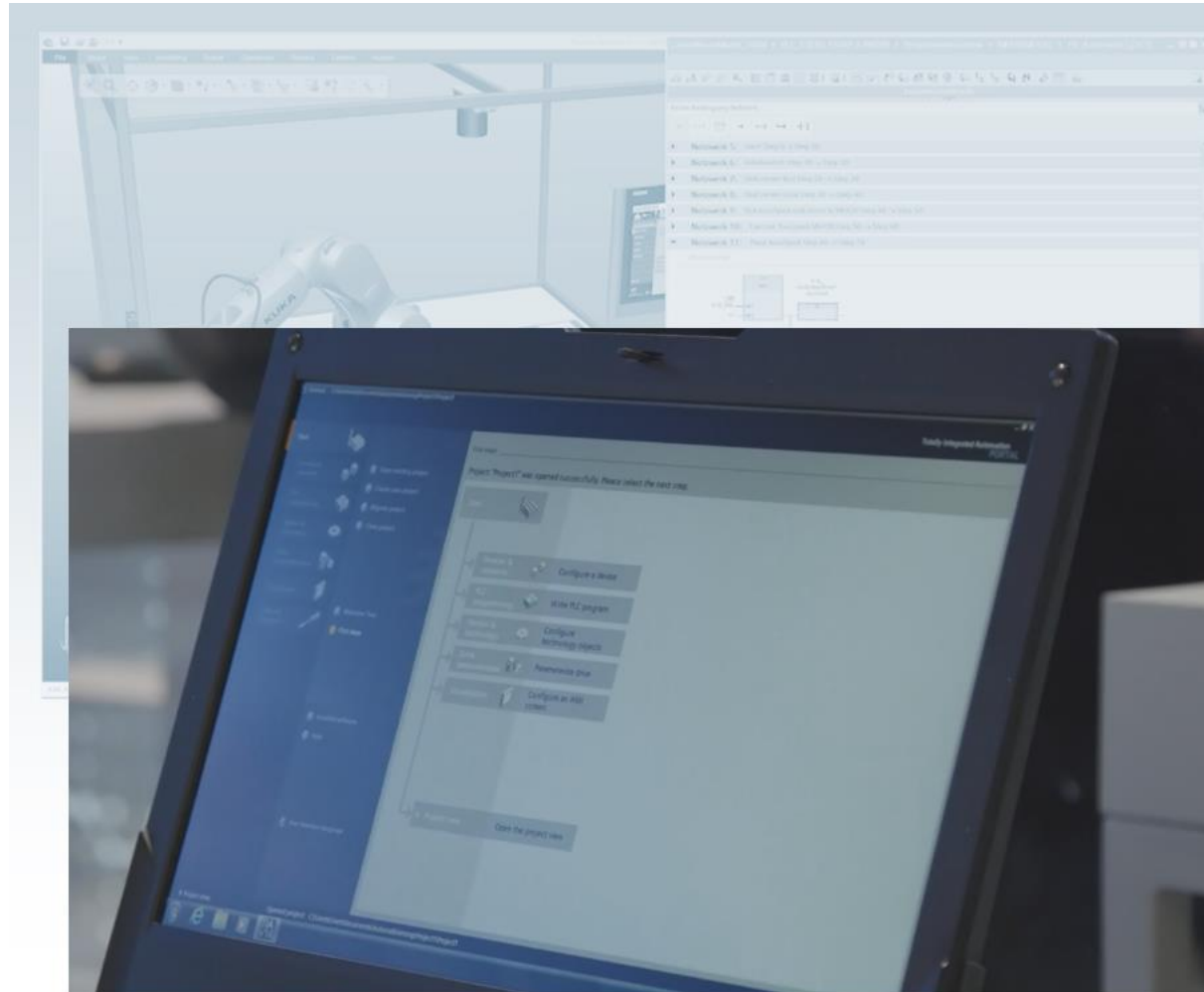


Production engineering

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Fast and
efficient
engineering
and
commissioning

Totally Integrated
Automation Portal

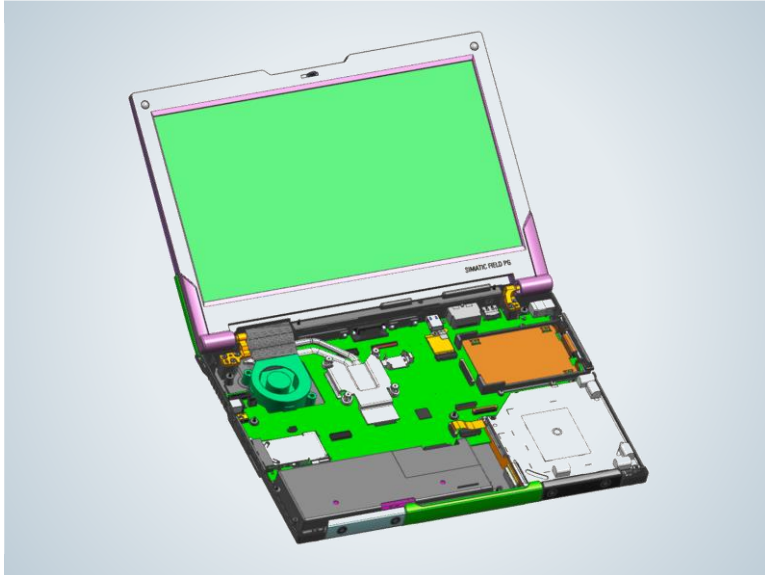


**SIMATIC
S7-1500**

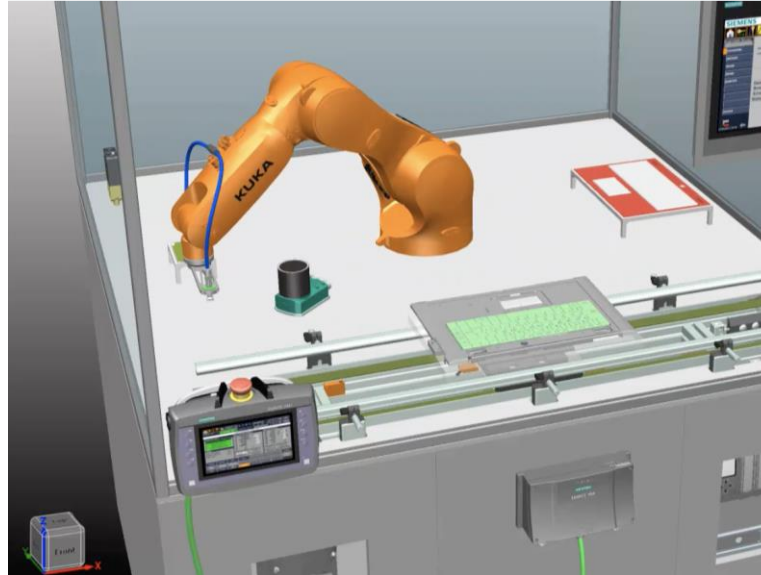


Digital Twin

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Ingenuity for life



Digital Twin of
the product



Digital Twin of
the production



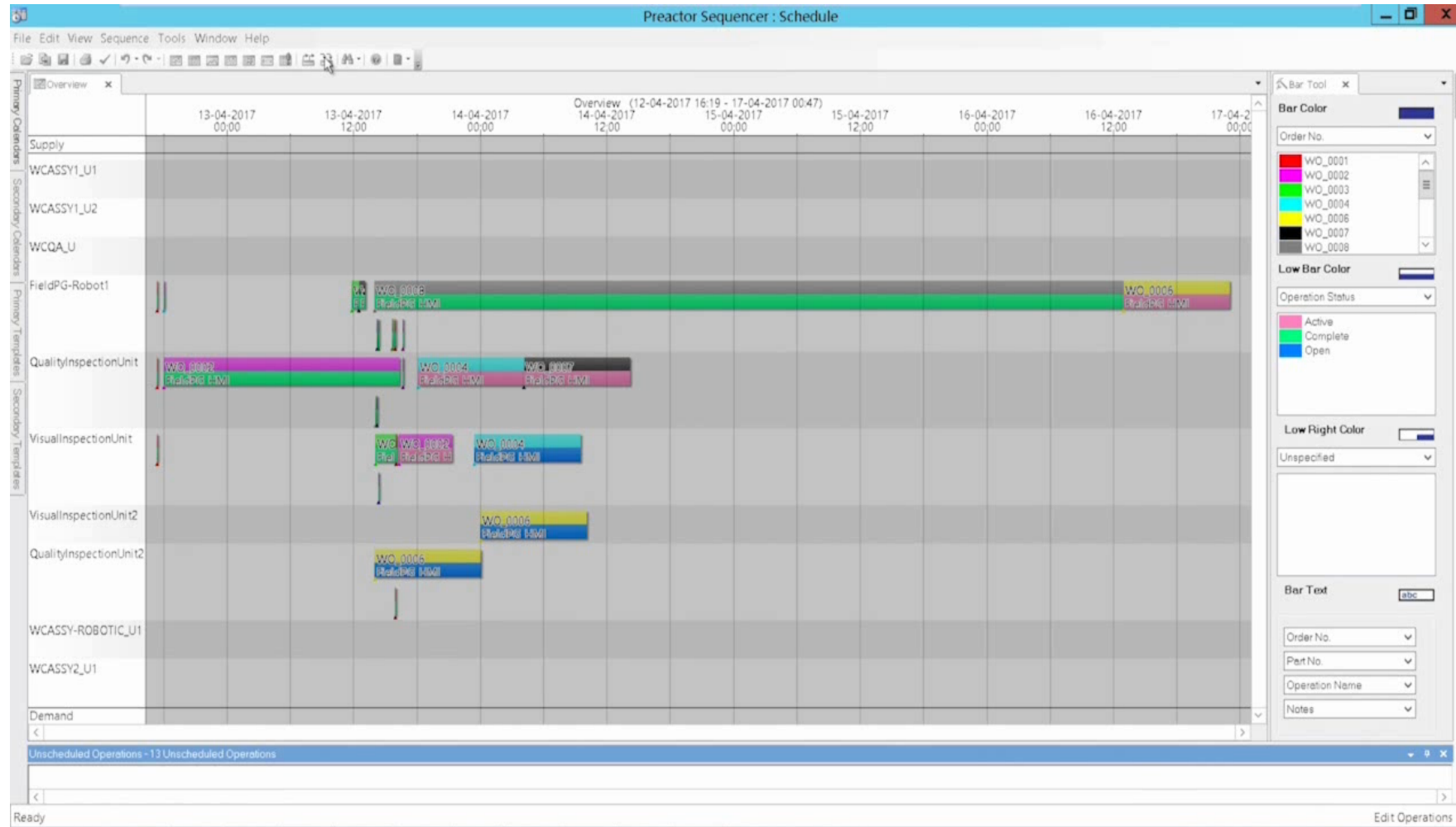
Digital Twin of
the performance

Production execution



Schedule
your work
operations

SIMATIC IT Preactor

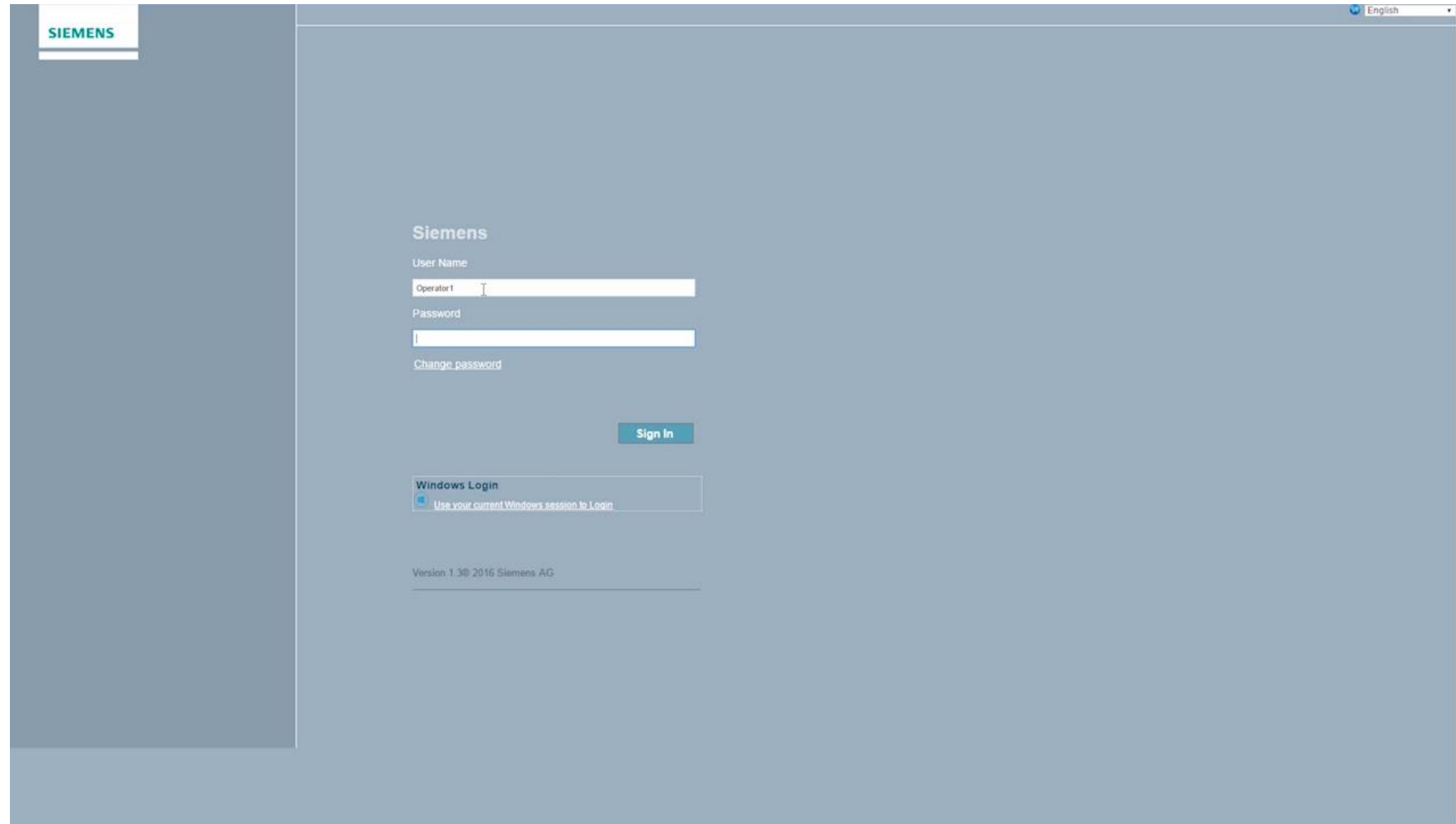


Production execution



Easily process
work
operations

SIMATIC IT
Unified Architecture



Production execution

Run quality
inspection
operations

SIMATIC IT
Unified Architecture



SIMATIC IT Unified Architecture Discrete Manufacturing 1.0

Home Main ▾

Work Order	Notifications	Work Orders pre-kit	Supervisor Non-Conformance	Product Coordinator Dashboard
Work Order Update	Change Management	Verify Work Orders	Hold	Future Hold
Product Coordinator Time Update	Operator Landing Page	Work Order Work in Progress	Genealogy	Tool
Inventory	Factory	Process flow	Storage	Wrench

Production execution

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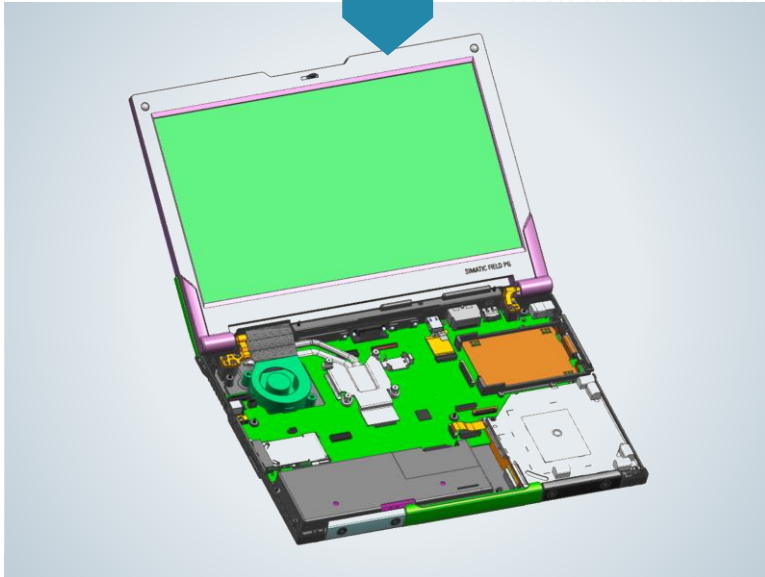
Efficient
and secure
production
with TIA

SIMATIC, SINUMERIK,
SIMOTION, SIMOTICS,
SINAMICS and SIRIUS

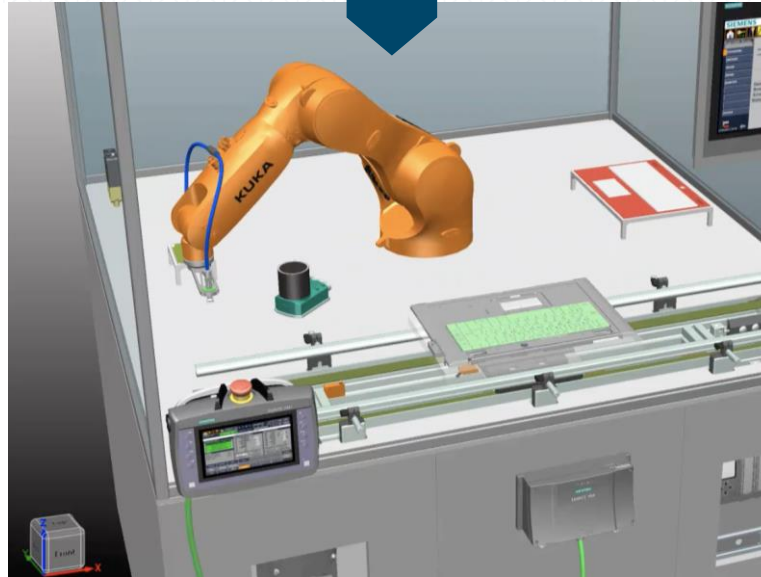




feed back insights to continuously optimize product and production



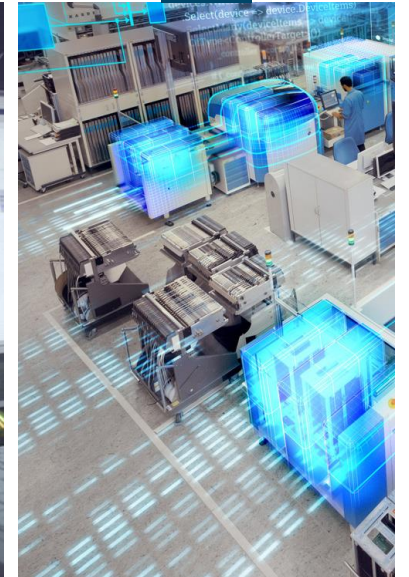
Digital Twin of the product



Digital Twin of the production



Digital Twin of the performance





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Thank you

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