

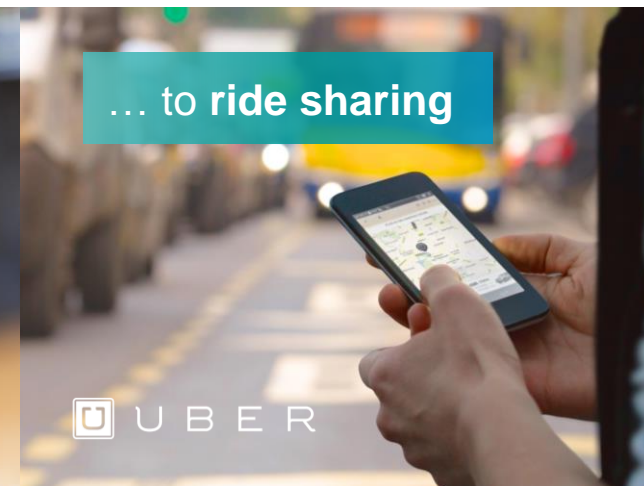
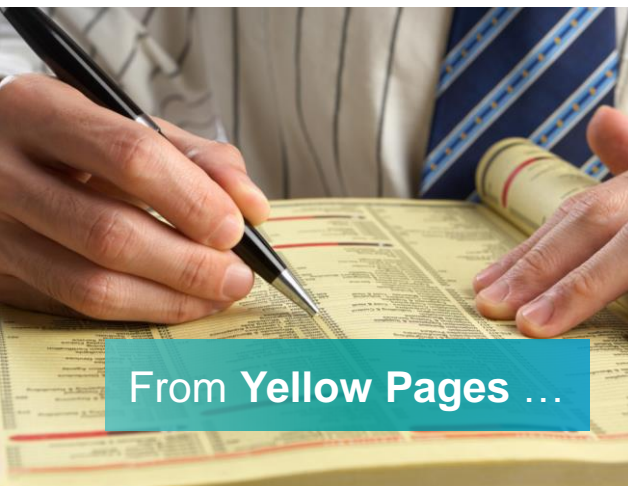
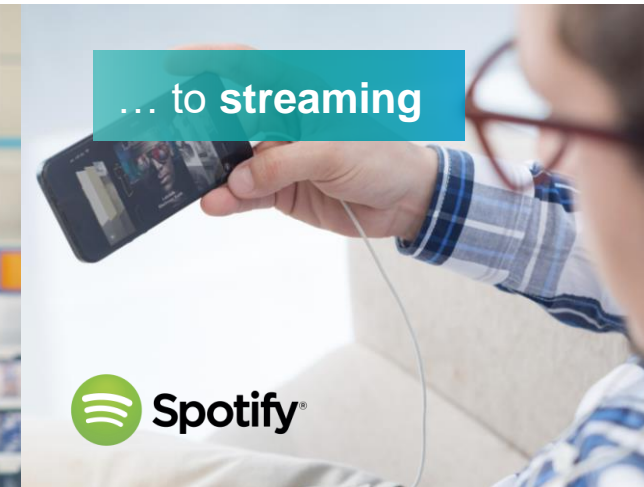
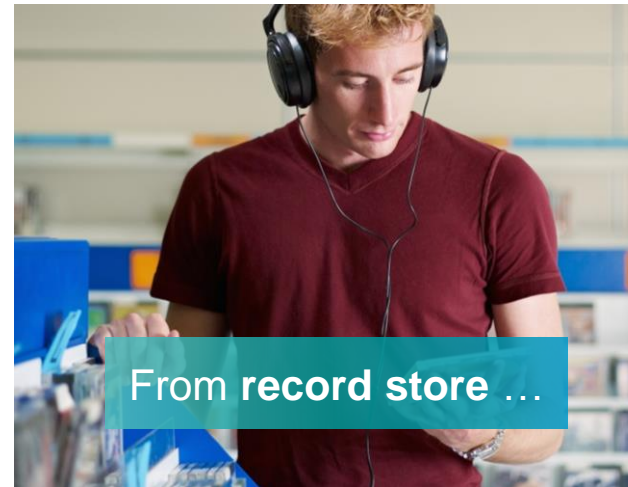
Indústria 4.0

ISQ – Projecto SIM 4.0 Workshop Castelo Branco
13 de Março 2018

António Mira

New business models in the internet age are disrupting complete markets

SIEMENS
Ingenuity for life



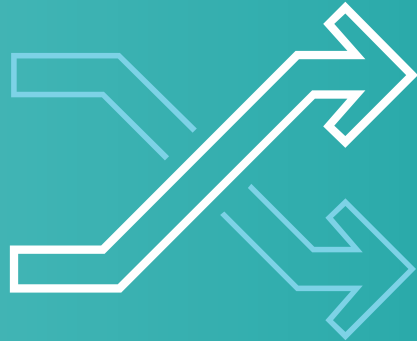
Our customers have essential requirements –
throughout the manufacturing industry

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Speed



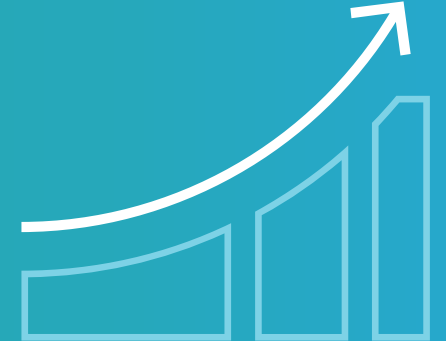
Flexibility



Quality



Efficiency



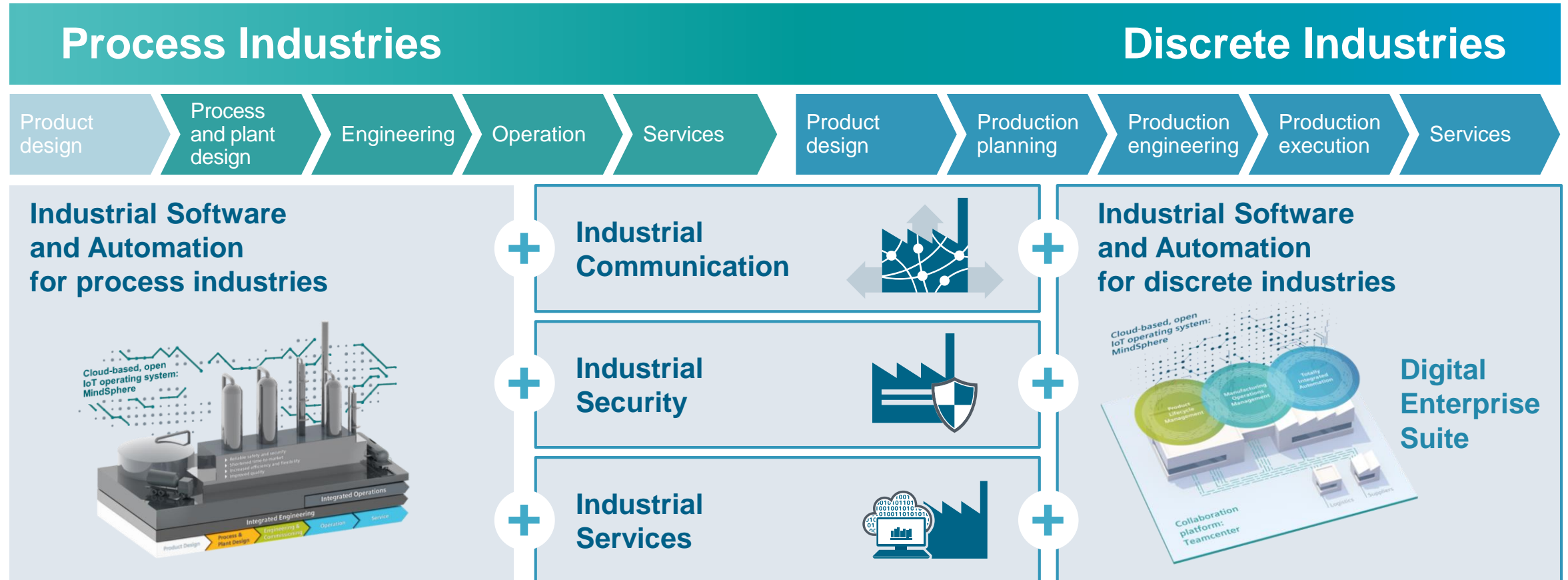
Security



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

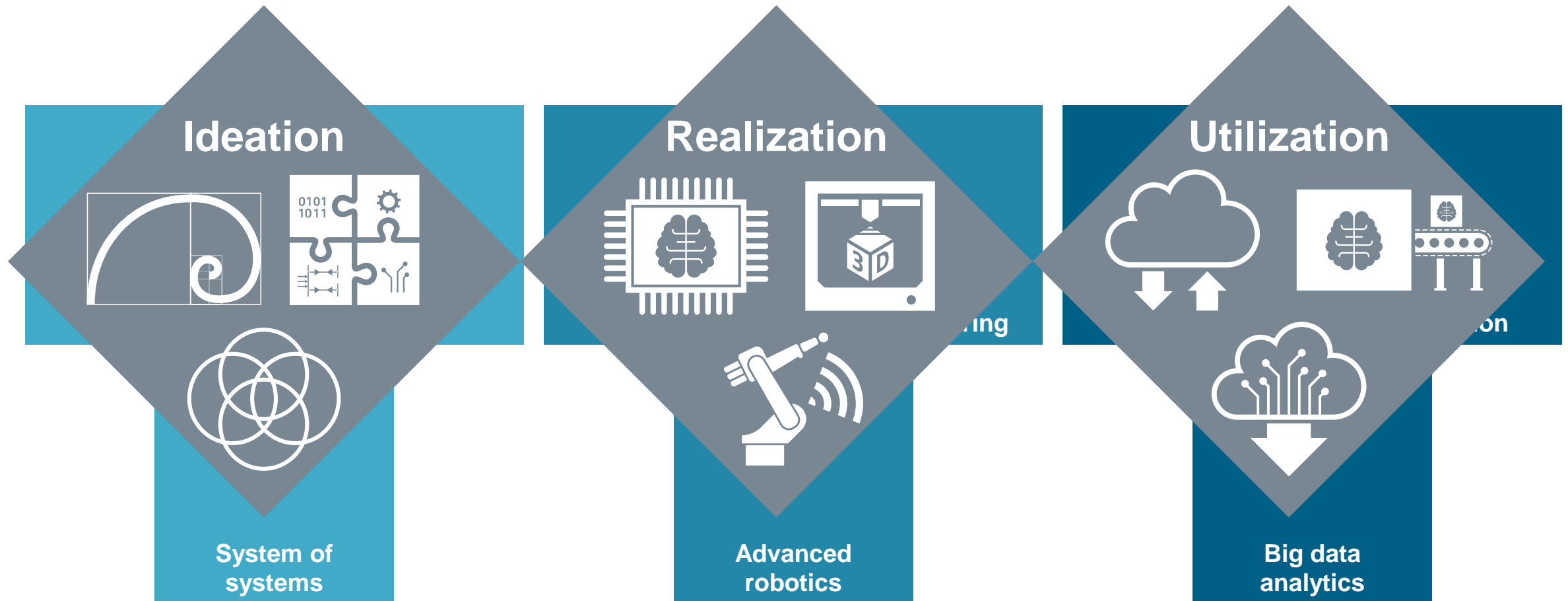


Digital Enterprise

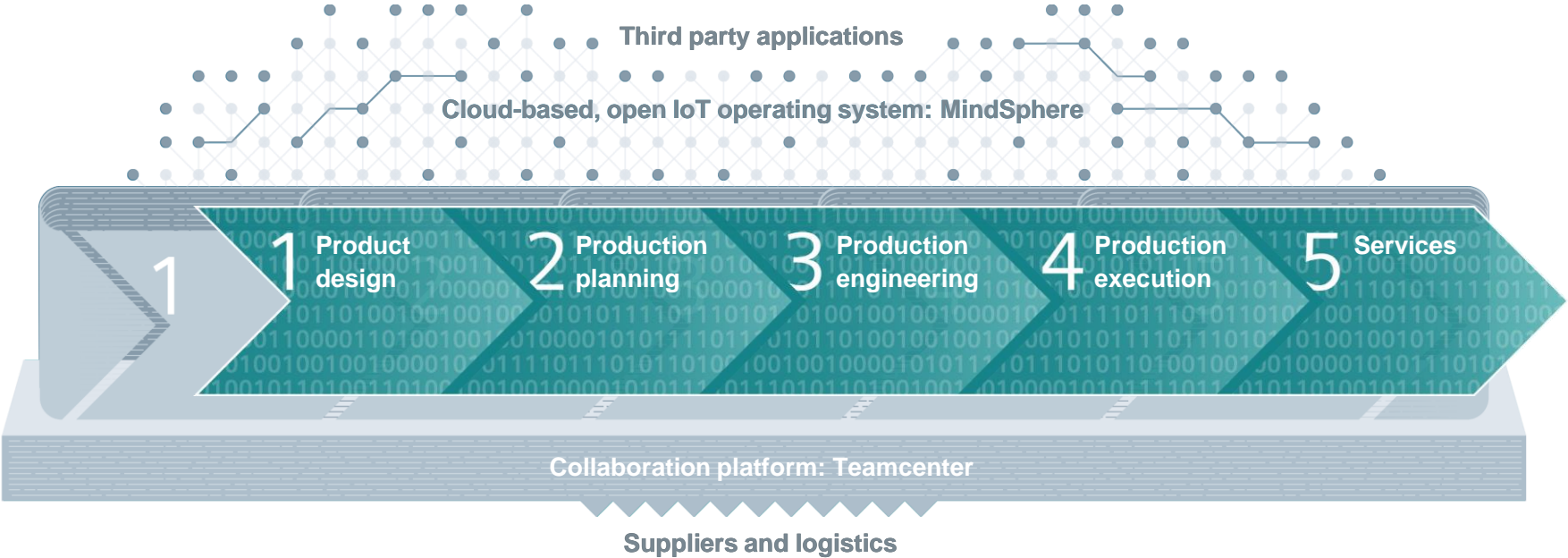


Manufacturers must embrace the technologies and transform their business into a digital enterprise

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Create a powerful Digital Twin of the entire value chain



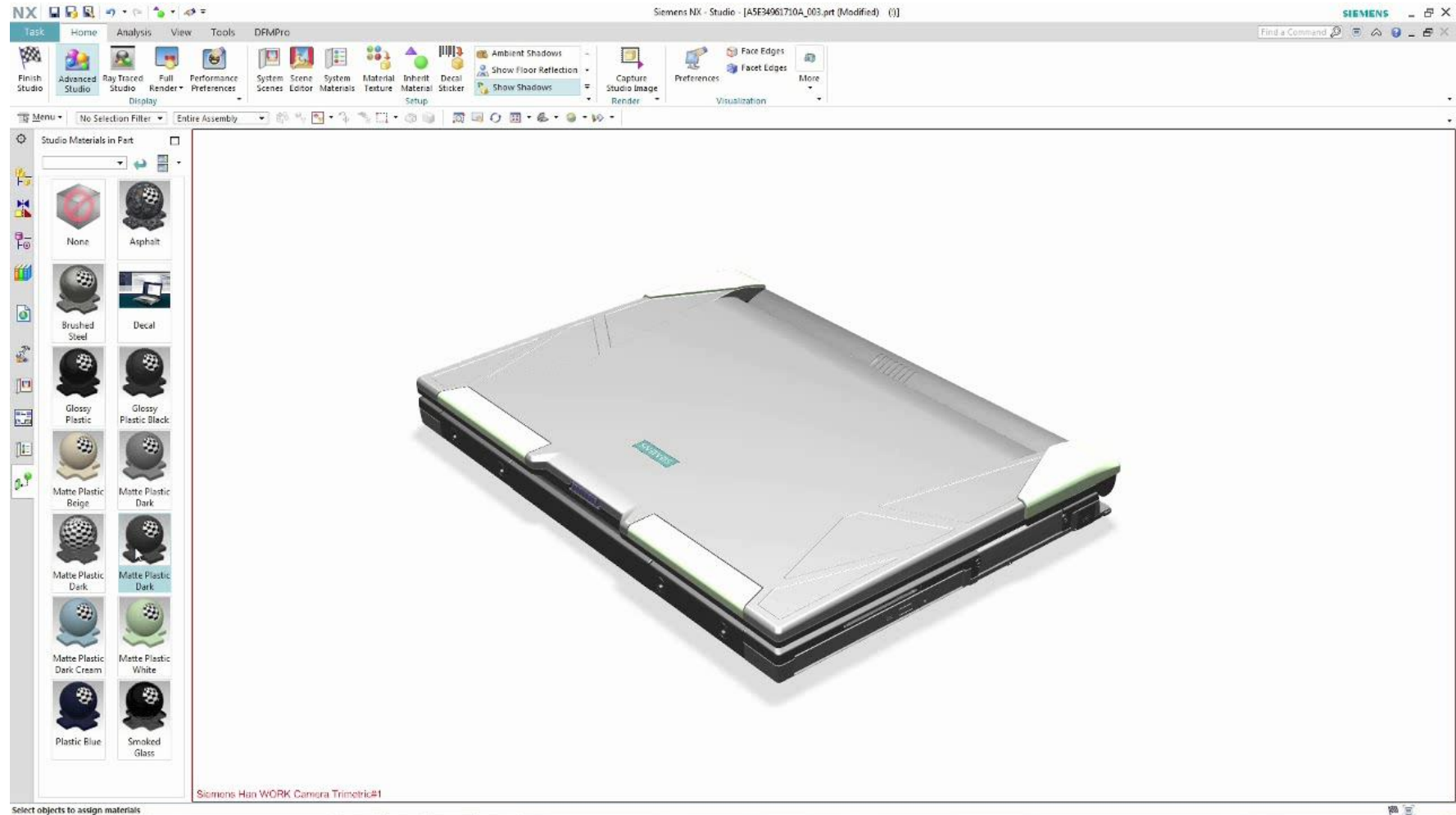
Product design

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Design and
simulate
the product

NX CAD/CAE/CAM

1 2 3 4 5

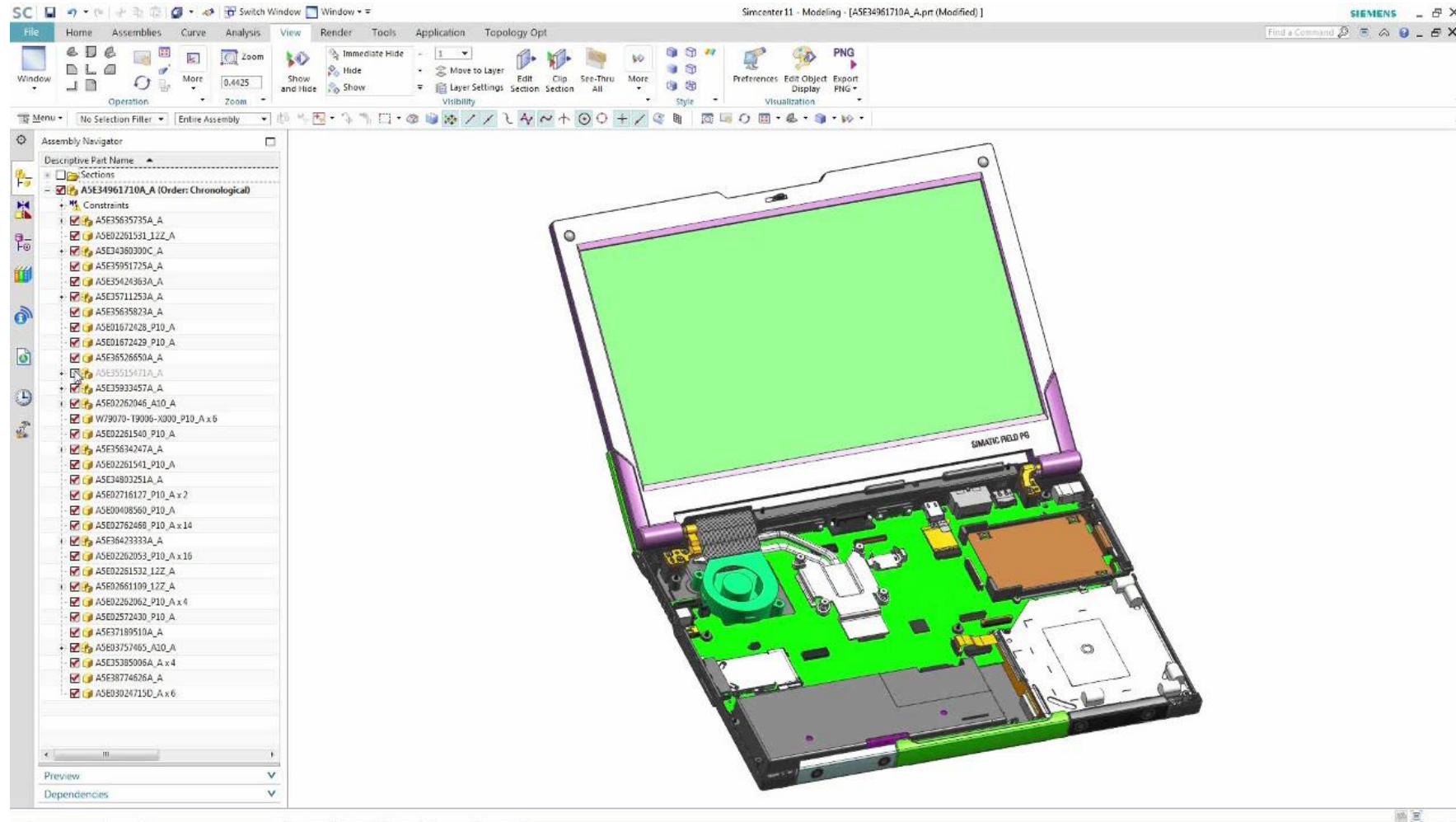


Product design

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Simulate
the physical
behavior

Simcenter



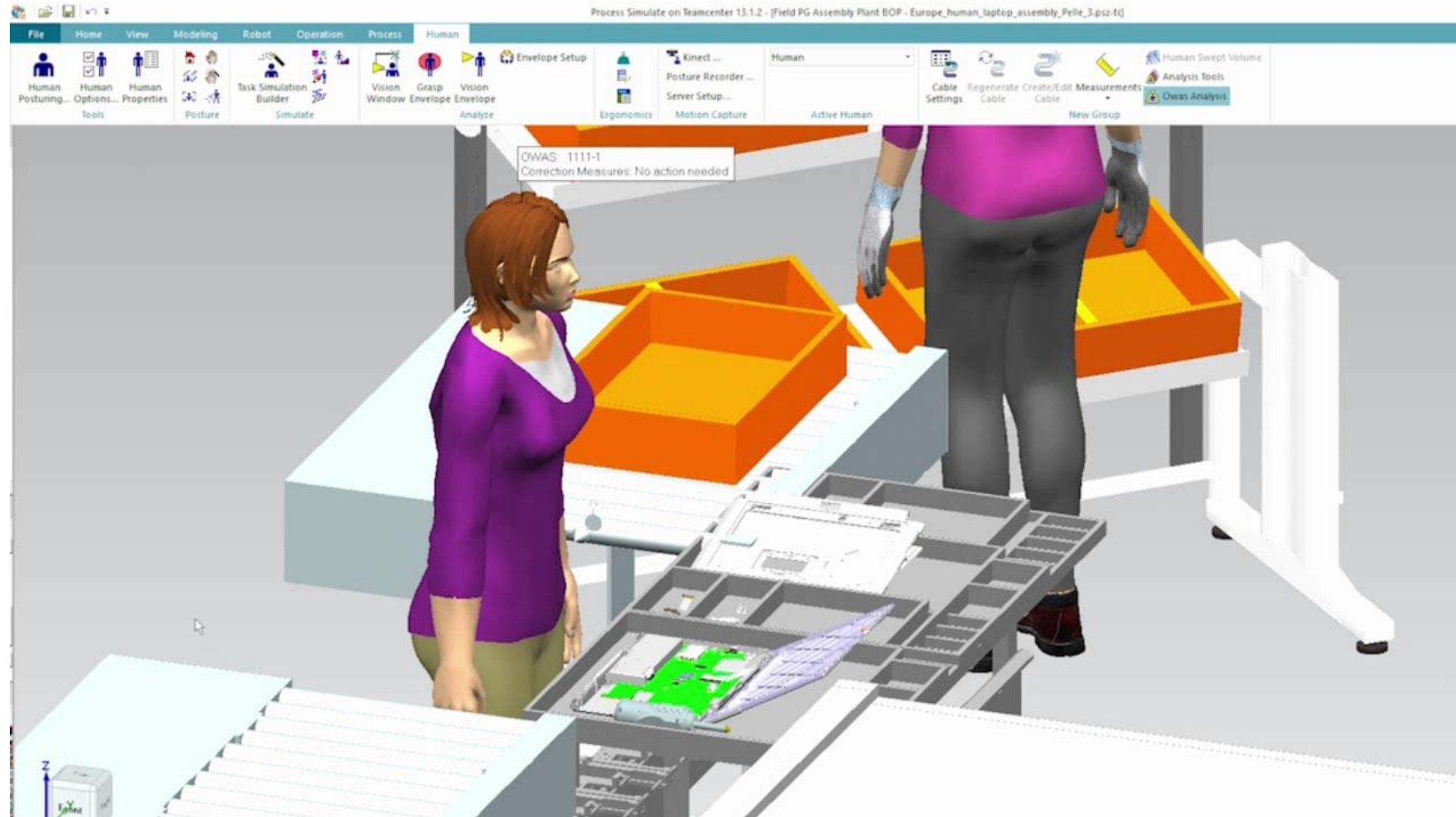
Production planning

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Simulate
working
conditions
for humans

Tecnomatix
Process Simulate

1 2 3 4 5

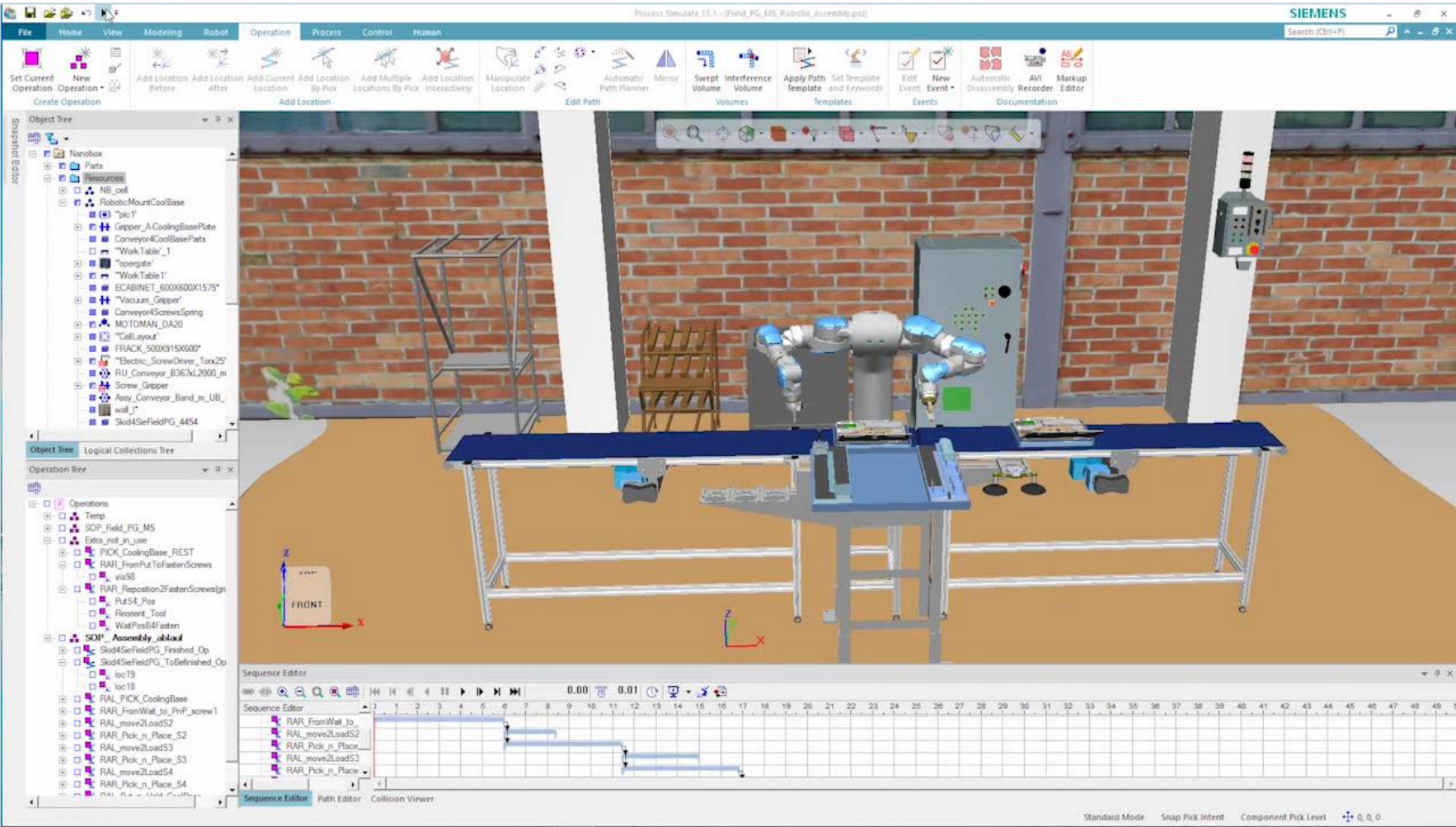


Production planning



Simulate work processes for robots

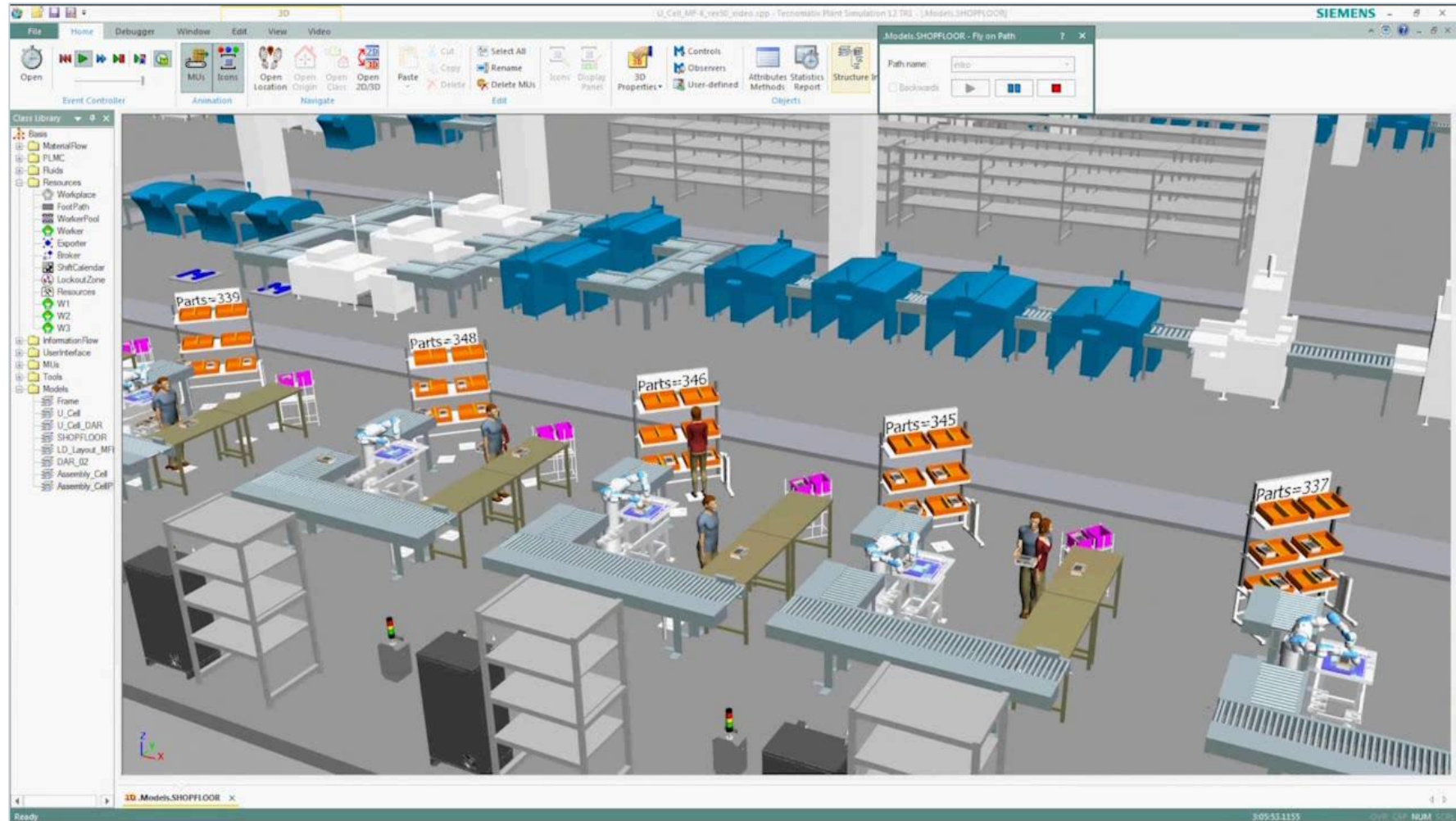
Tecnomatix
Process Simulate



Production planning

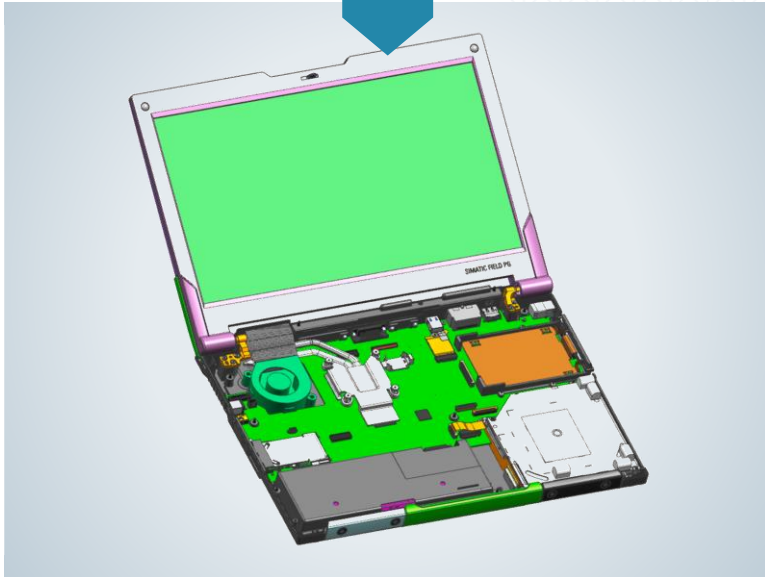
Simulate and
optimize your
production
processes

Tecnomatix
Plant Simulation

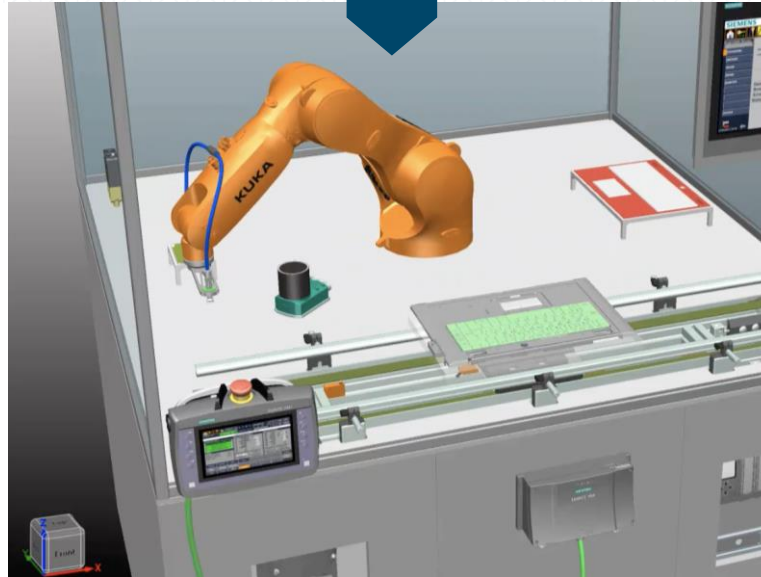


... MindSphere ...

feed back insights to continuously optimize product and production



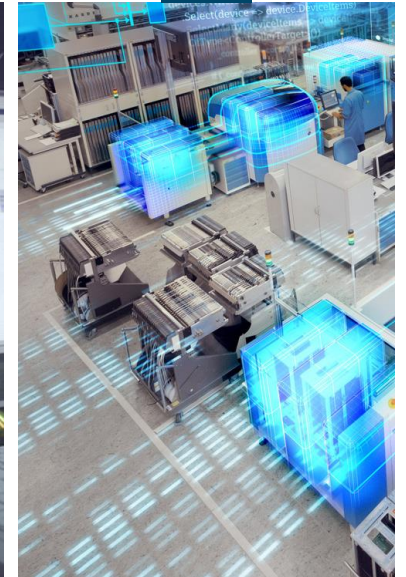
Digital Twin of
the product



Digital Twin of
the production

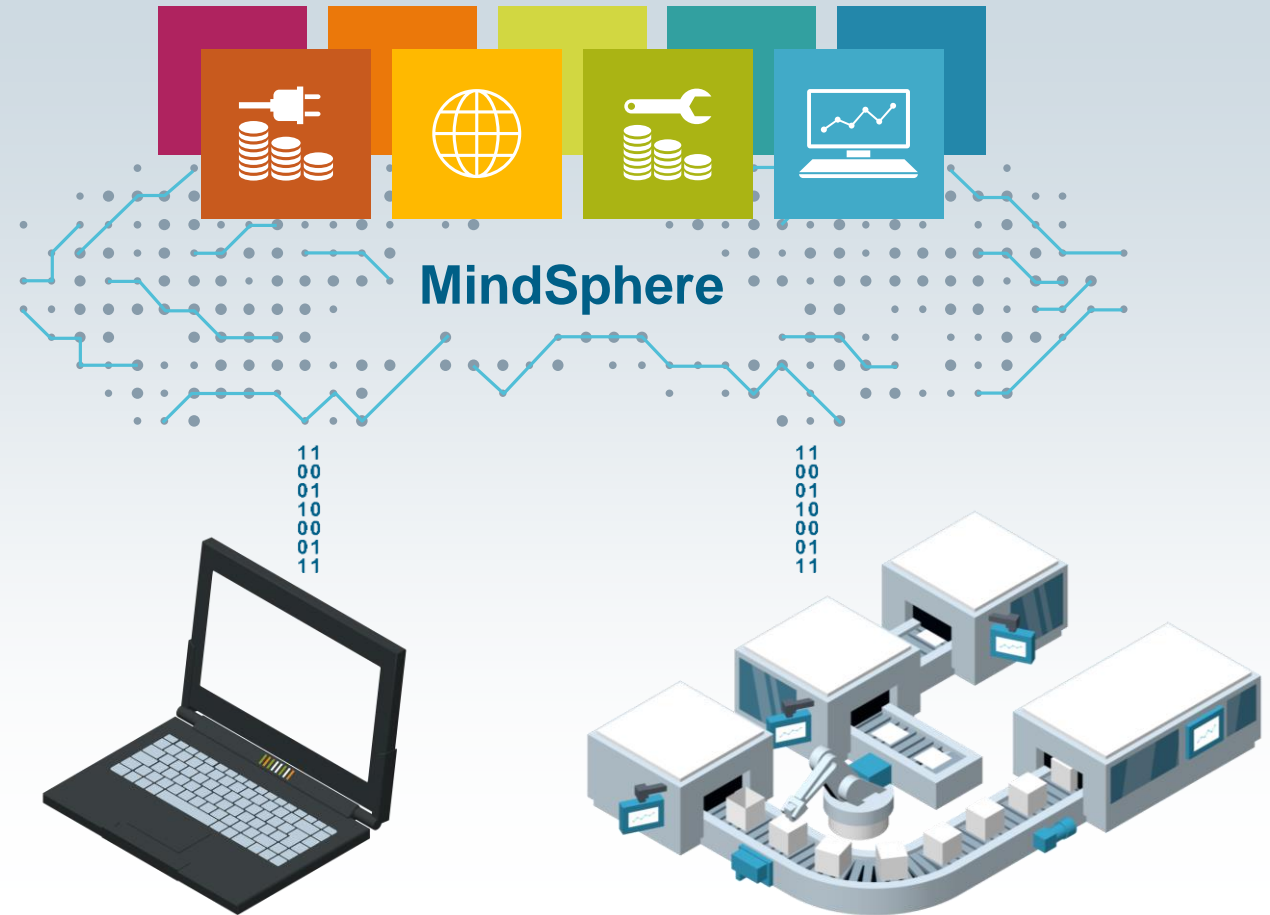


Digital Twin of
the performance



Let your
products and
your production
speak to you

MindSphere –
the cloud-based, open
IoT operating system



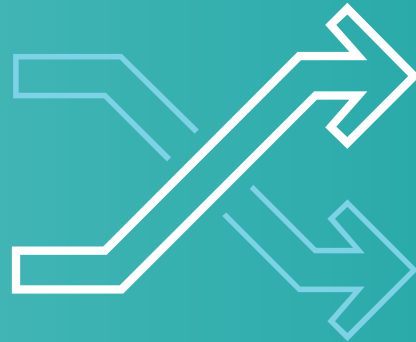
This is what you gain

SIEMENS
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Speed



Flexibility



Quality



Efficiency



Security



With Siemens' integrated technologies, Maserati reduced development time while increasing production output

SIEMENS
Ingenuity for life

30% shorter
development time

More than **70,000**
combinations
available

3 times more
cars produced



With Siemens' integrated technologies, Bausch + Ströbel realized digitalization across the entire machine lifecycle

SIEMENS
Ingenuity for life

30% shorter
engineering time

Increased
flexibility

Consistent, end-to-
end digitalization
with the
Digital Twin



A screenshot of the Siemens NX CAD software interface. The main window displays a wireframe model of a car, showing the front end, including the headlights, grille, and wheels. The software's menu bar and toolbars are visible at the top and left. A small inset window shows a 2D cross-section of the car's body.

Thank you.

Masterslides