



Advanced Machine Engineering

Where engineering meets tomorrow

Industrial Machinery Market Trend



Customers drive
customization



Smart machines



Hyper-automation



Global competition



Global
Smart
Quality
Connected
Personalized
Efficient
Flexible
Cost effective

Secure
Sustainable
Integrated



An explosion of complexity...



...making the conventional challenges even more difficult to manage

time to market

cost

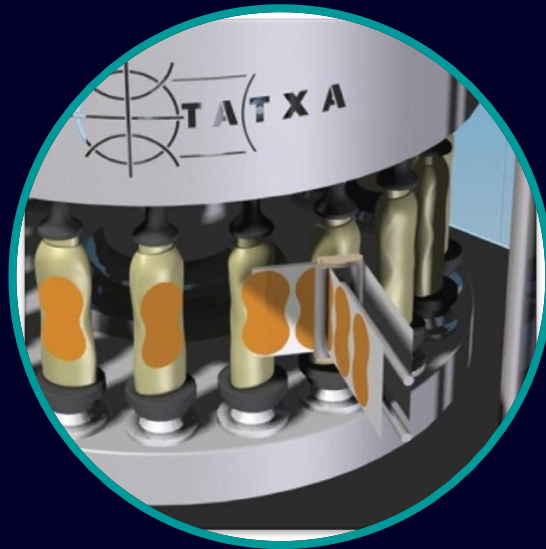
quality

scope

Comprehensive Digital Twin

Design

Product & Production
development



Realize

Manufacturing &
Manufacturing Operations



Optimize

Performance
and maintenance



Continuous product/ production improvement

Catalyst for the Digital Enterprise



An integrated portfolio of software, services and an application development platform that speeds the digital transformation cycle and unlocks a powerful industrial network effect. Blurs the boundaries between traditional stand-alone engineering domains such as electrical, mechanical and software.

**Comprehensive
Digital Twin**

**Personalized
Adaptable/
Modern**

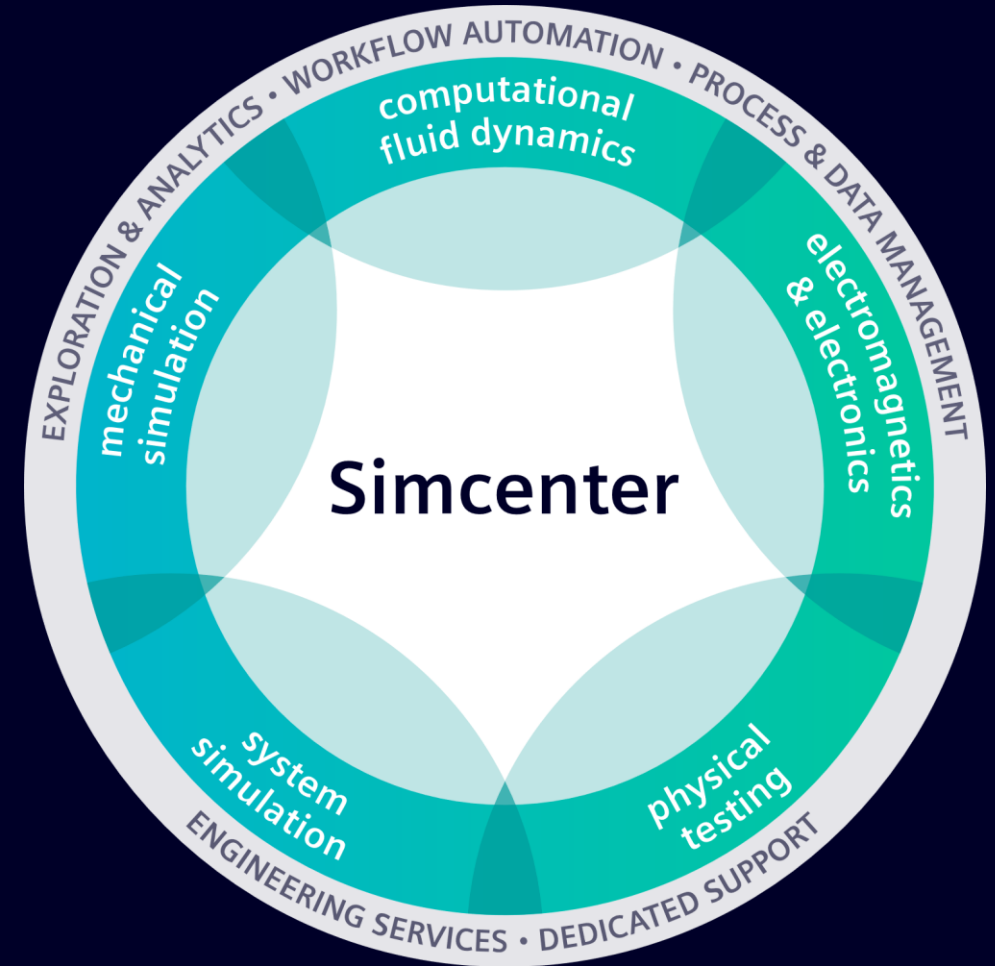
**Flexible
Open Ecosystem**

Where today meets tomorrow.



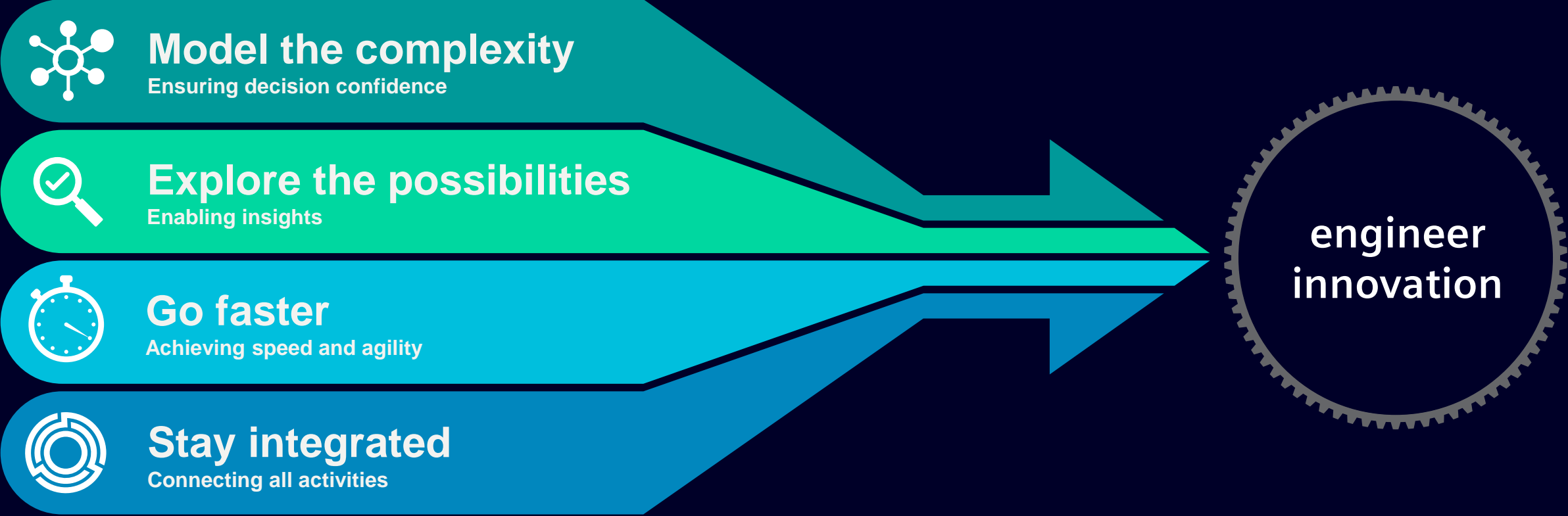
The beating heart

We believe that the comprehensive digital twin is critical to the future of engineering innovation and that simulation and test are the beating heart of the digital twin. By providing you with insight into the real-world performance of your product or process, Simcenter allows you to accelerate innovation over the entire lifecycle.



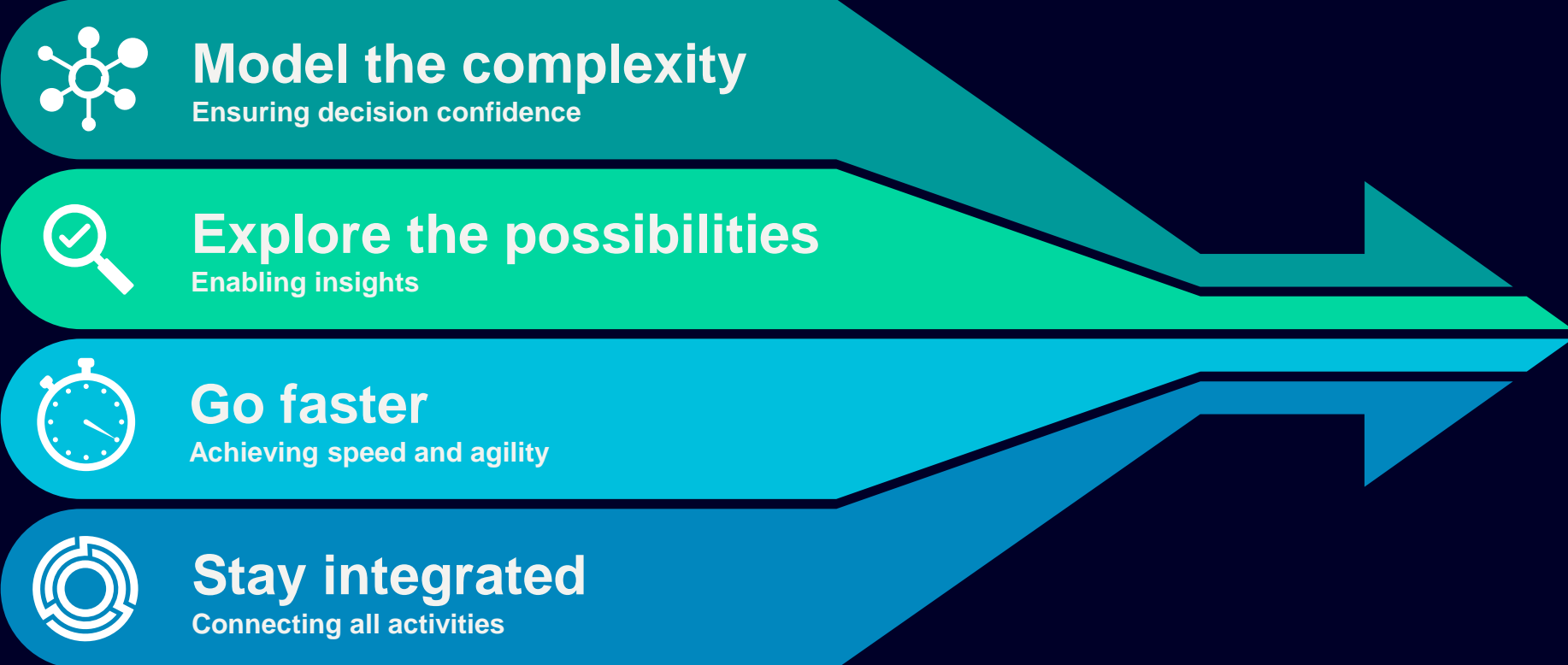
Where engineering meets tomorrow

Investment imperatives for a comprehensive digital twin strategy



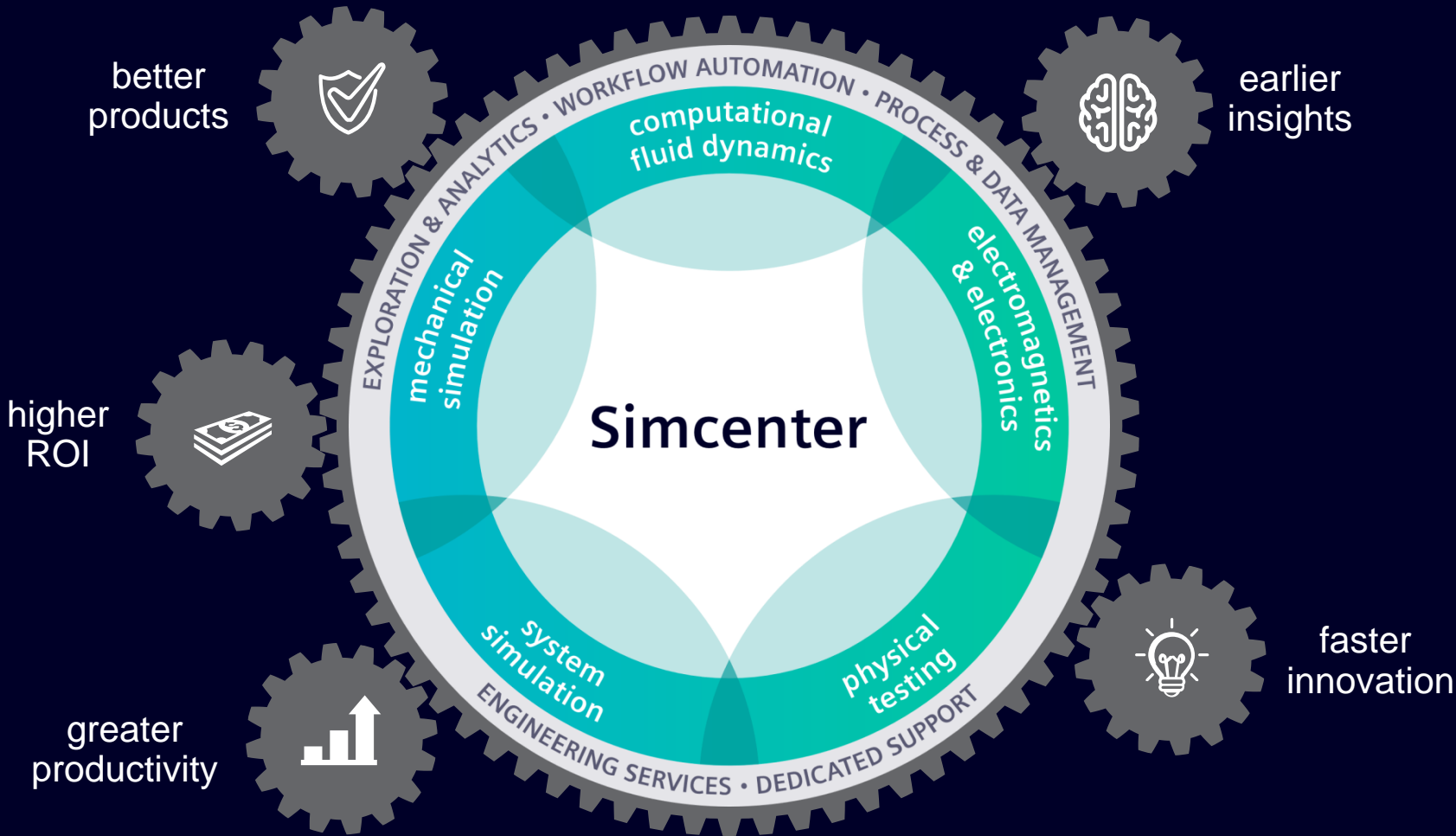
Where engineering meets tomorrow

Investment imperatives for a comprehensive digital twin strategy



Simcenter

Driving customer benefits



Virtual Sensing

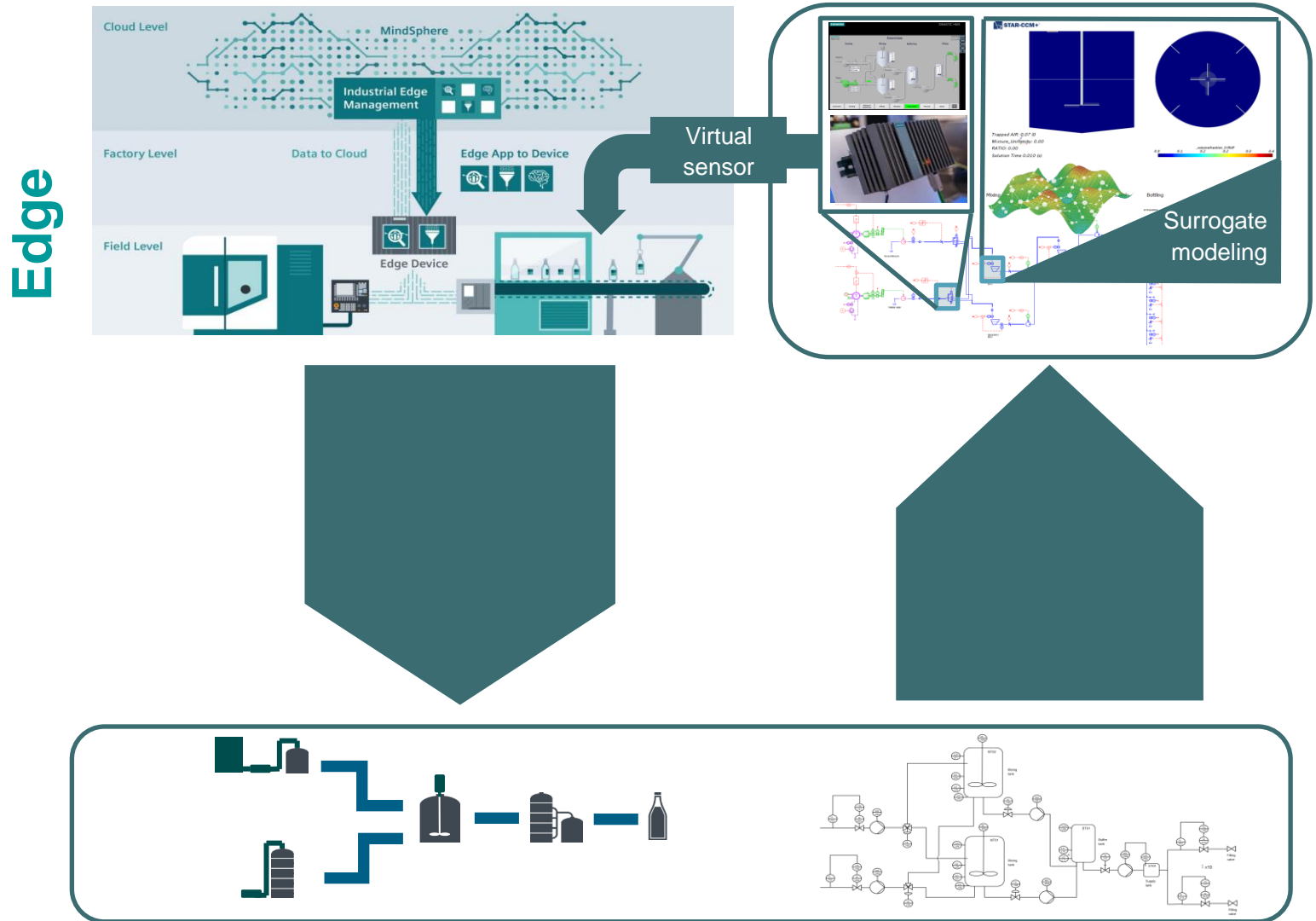
Realtime production monitoring and simulation.

Get access to infinite data to build AI models

Improve knowledge

Improve productivity, efficiency, quality and provide better services

Get access remotely on how machine or plant perform



Digital Logistics Optimization

Complex logistics scenario

Changing scheduling

Number of AGV's & charging station

Charging strategy...

..13 Variable to take in account

AGVs reduced by 13%

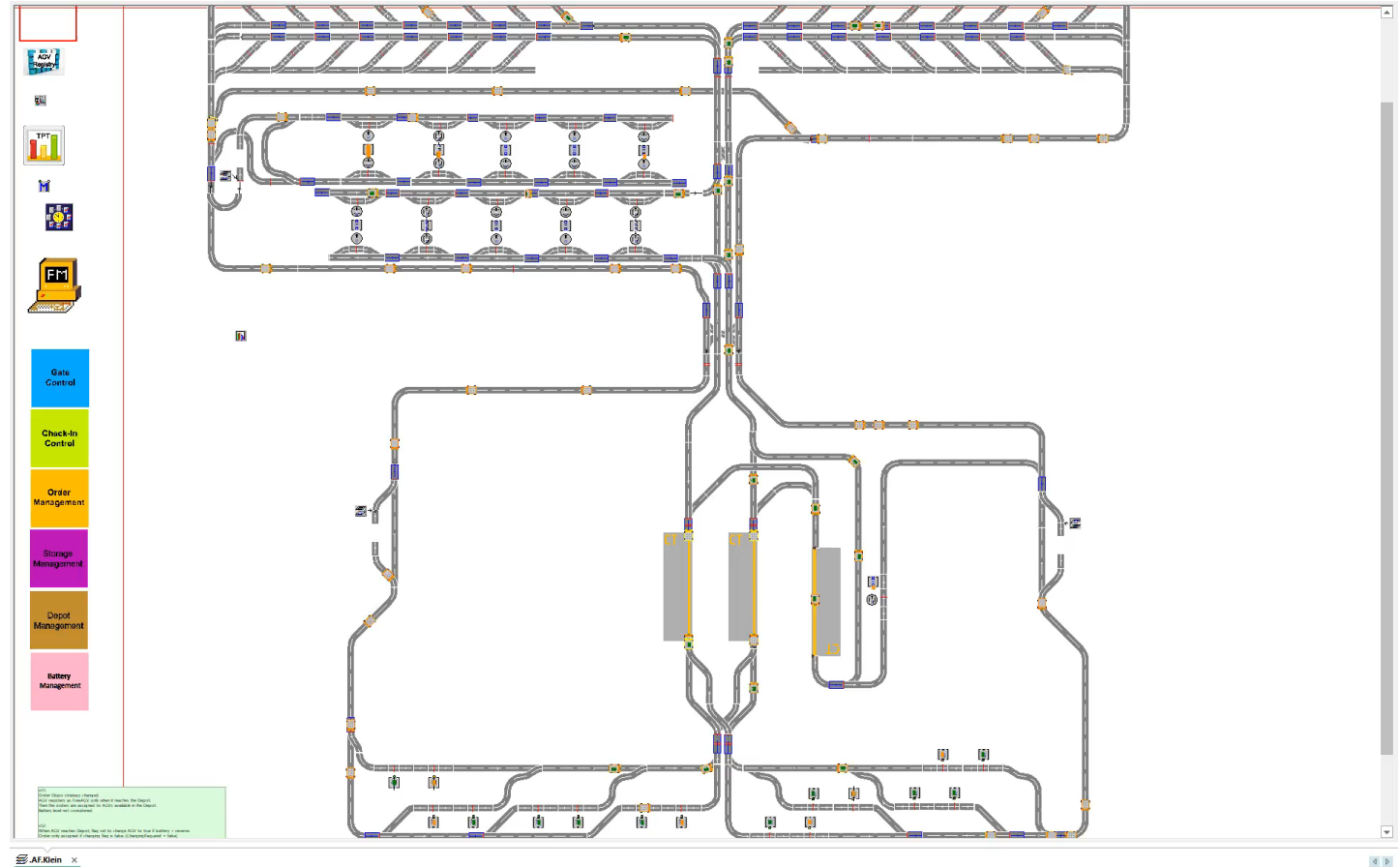
Charging station reduced by 17%

Operation cost reduced by 14%

Dependency of battery management

Efficient search for system

configuration



Digital Factory Optimization

Flexible production line
Changing production sequence
based on customers requirements
Bottleneck reduce productivity
and efficiency.

Number of AGV's
Logistics sequence and storage
Up to 36 parameters

Materials reduced by 17%
Pallet on the line reduced by 42%
Save 20 minutes per day



Digital Production Optimization

Disruptive approach to get competitive advantages

Reduce setup time

Improve quality

Improve planning

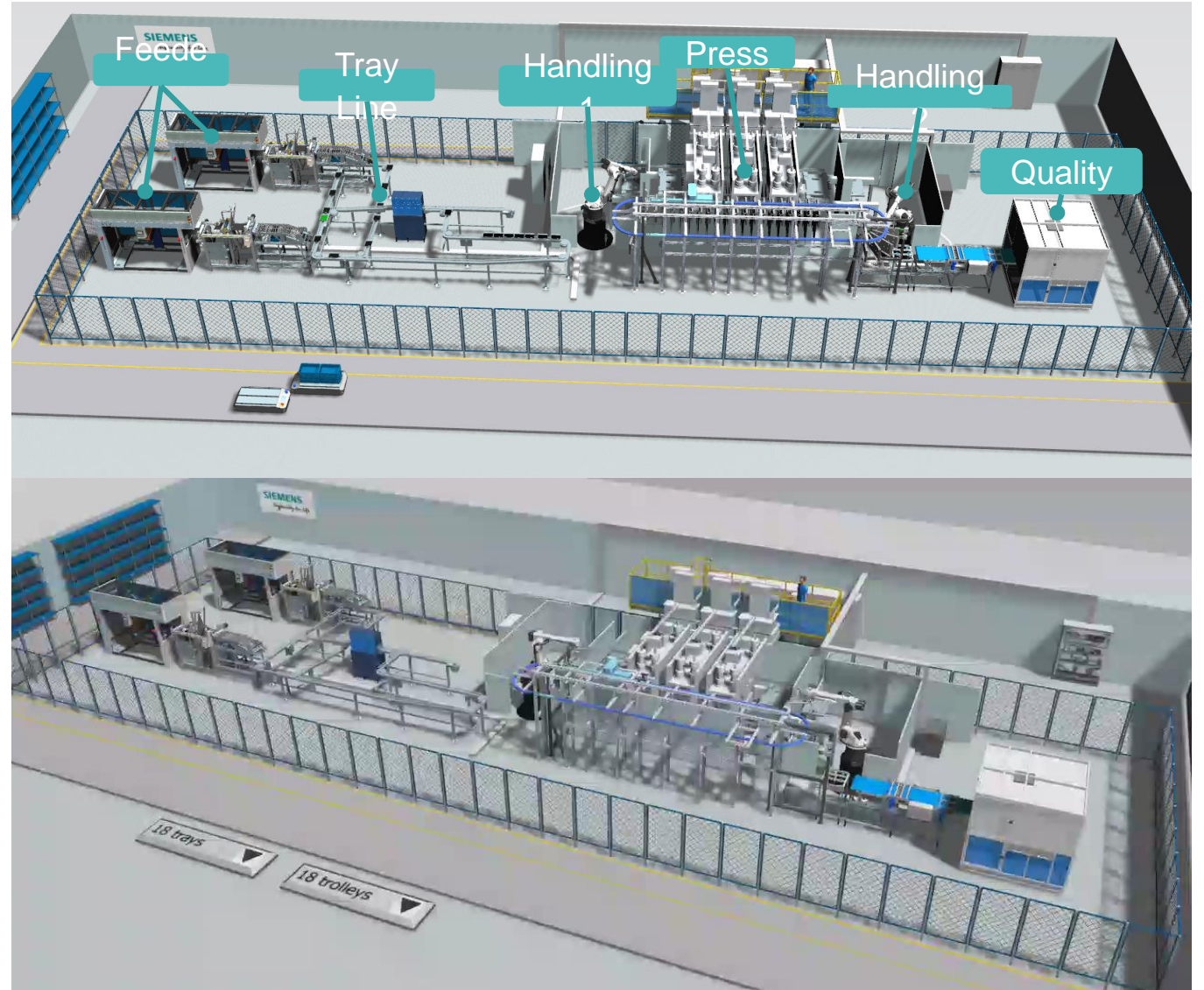
Improve efficiency

Reduce time to market

Increased output by 18%

reduced set-up time

Process industrialized and digitalized



Better together



Siemens

Engineering powerhouse that has the strength and vision to continue pushing boundaries

Xcelerator

Simcenter is an integral part of a broad portfolio including MCAD, PLM and EDA

Extensive portfolio

Performance engineering for all phases for closed-loop product development

Simulation & testing

Unique combination that is essential for IoT/digital twin strategies deployment

Support & services

Skilled team with industry expertise to help you gain competitive advantage



| Thank you