



Xcelerator – Catalyst for digital transformation

Where today meets tomorrow.



Explosion of complexity

Sustainable

Integrated

Cost effective

Personalized

Secure

Smart

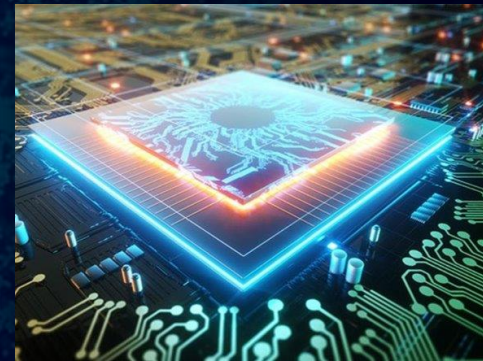
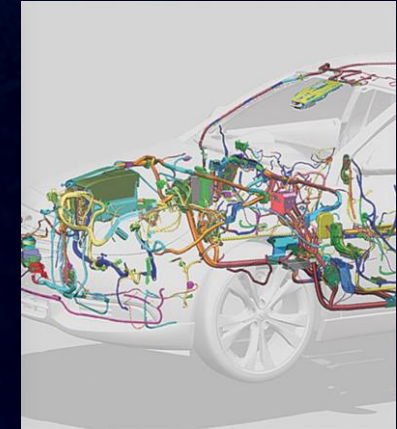
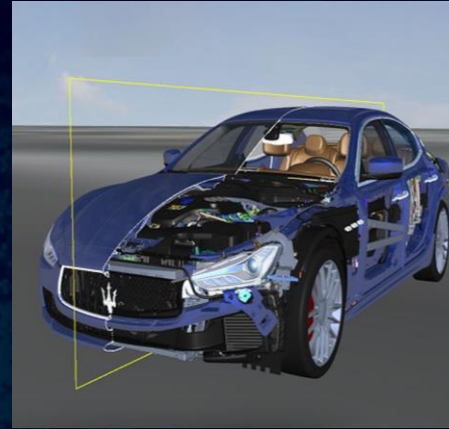
Efficient

Connected

Flexible

Global

Demand for smart, connected, sustainable products increasing



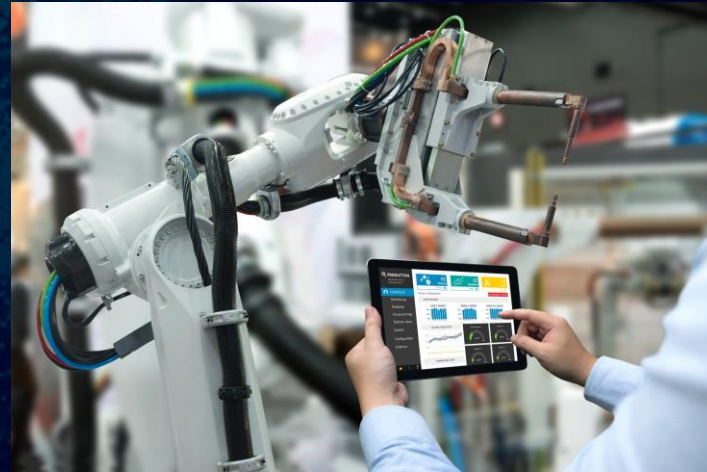
Integrated work processes and cross-domain engineering



Development processes lagging product demands



IT/OT convergence





Turn complexity into competitive advantage

Gaining competitive advantage relies on holistic digital transformation

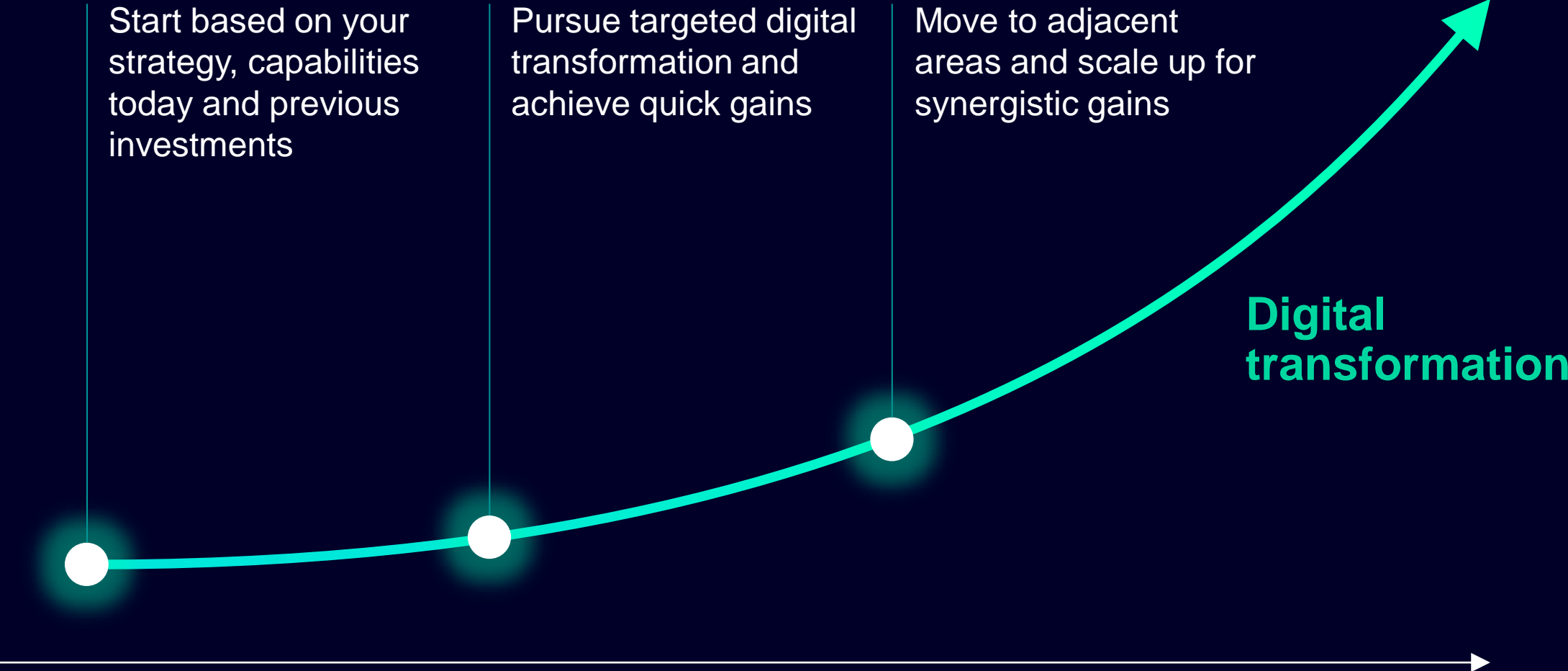


- **Technology**
- **People**
- **Processes**

Successful digital transformation is rooted in company strategy.

- 1** Define biggest gaps and pace of change
- 2** Balance costs vs. return of transformation
- 3** Find partnerships that can deliver benefits

Start small, get quick wins, scale up



The most progressive companies embracing many digital transformation initiatives see the most impressive results



Projects that hit or exceed revenue



Projects that hit or exceed margin goals



Prototypes during development

Source: Lifecycle Insights – The Digital Transformation ROI Benchmark

The foundation of every solution we deliver to our customers is built on three competitive differentiators



**Comprehensive
Digital Twin**



**Personalized
Adaptable/ Modern**



**Flexible
Open Ecosystem**

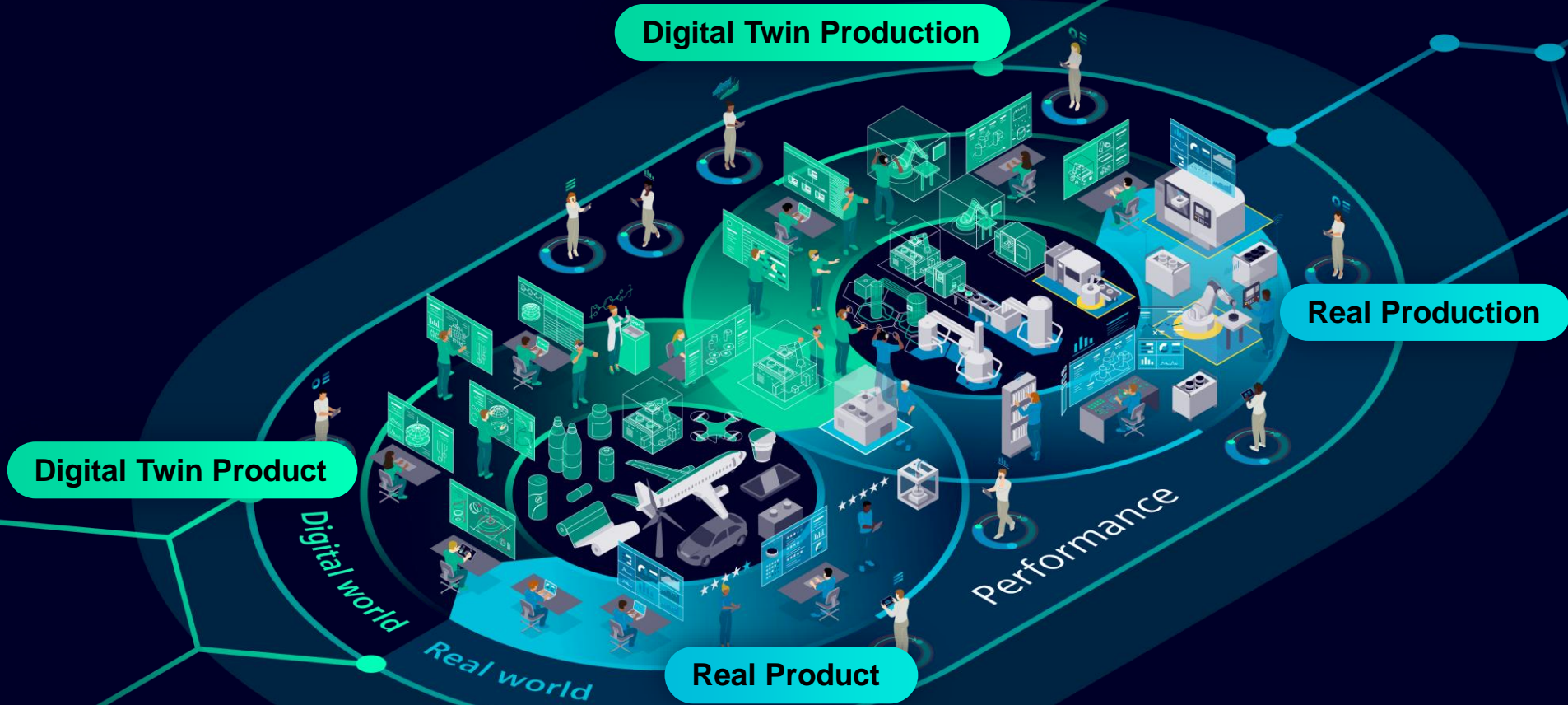
Combining the digital and real worlds of product and production lays the foundation to becoming a true Digital Enterprise



Real

Digital

Closed-loop connections between the digital and real worlds across the value chain enable actionable insights and informed decisions



Xcelerator brings the comprehensive digital twin to life



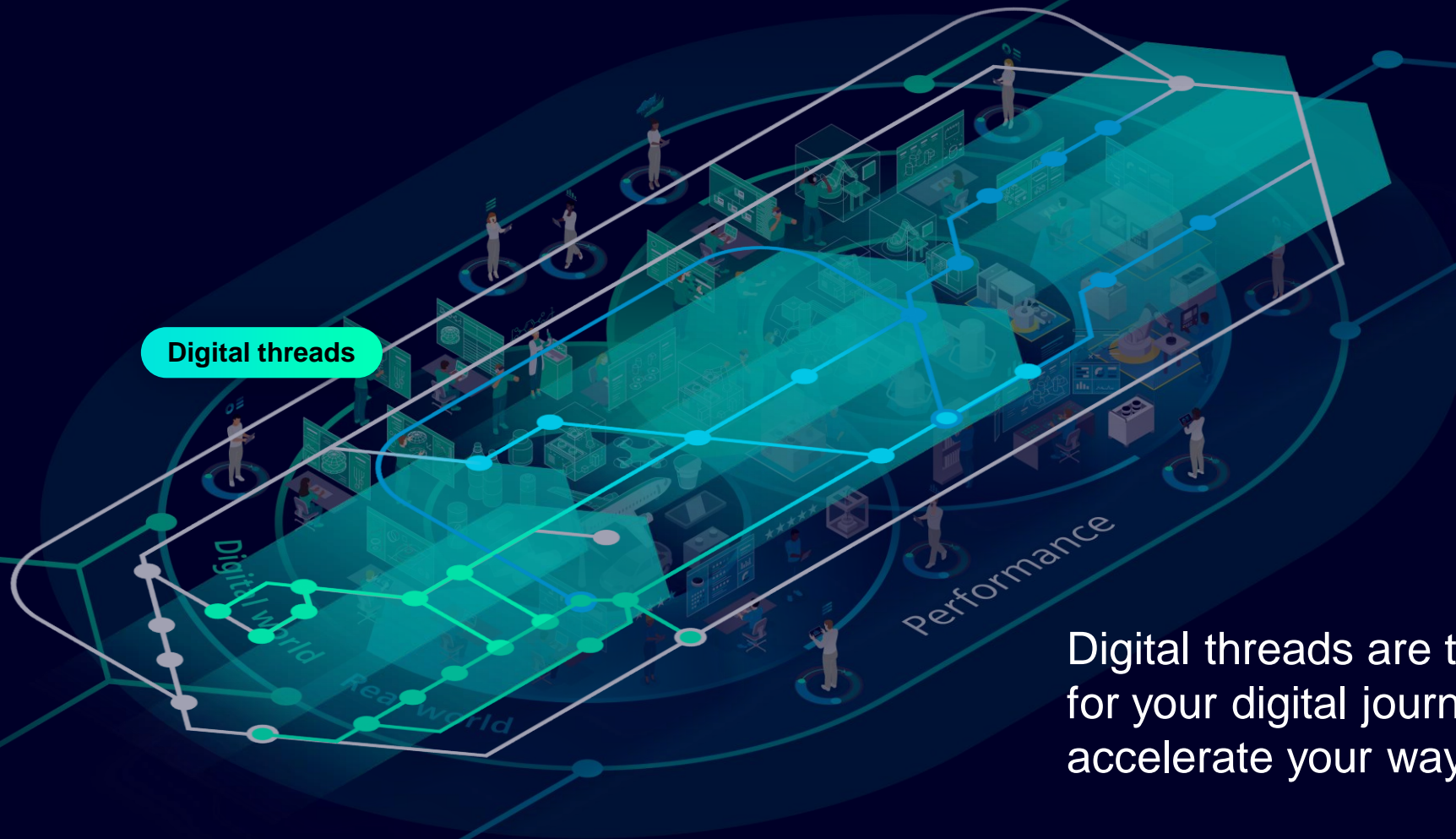
Xcelerator as a Service
makes digital
transformation initiatives
accessible, flexible, scalable.



Portfolio

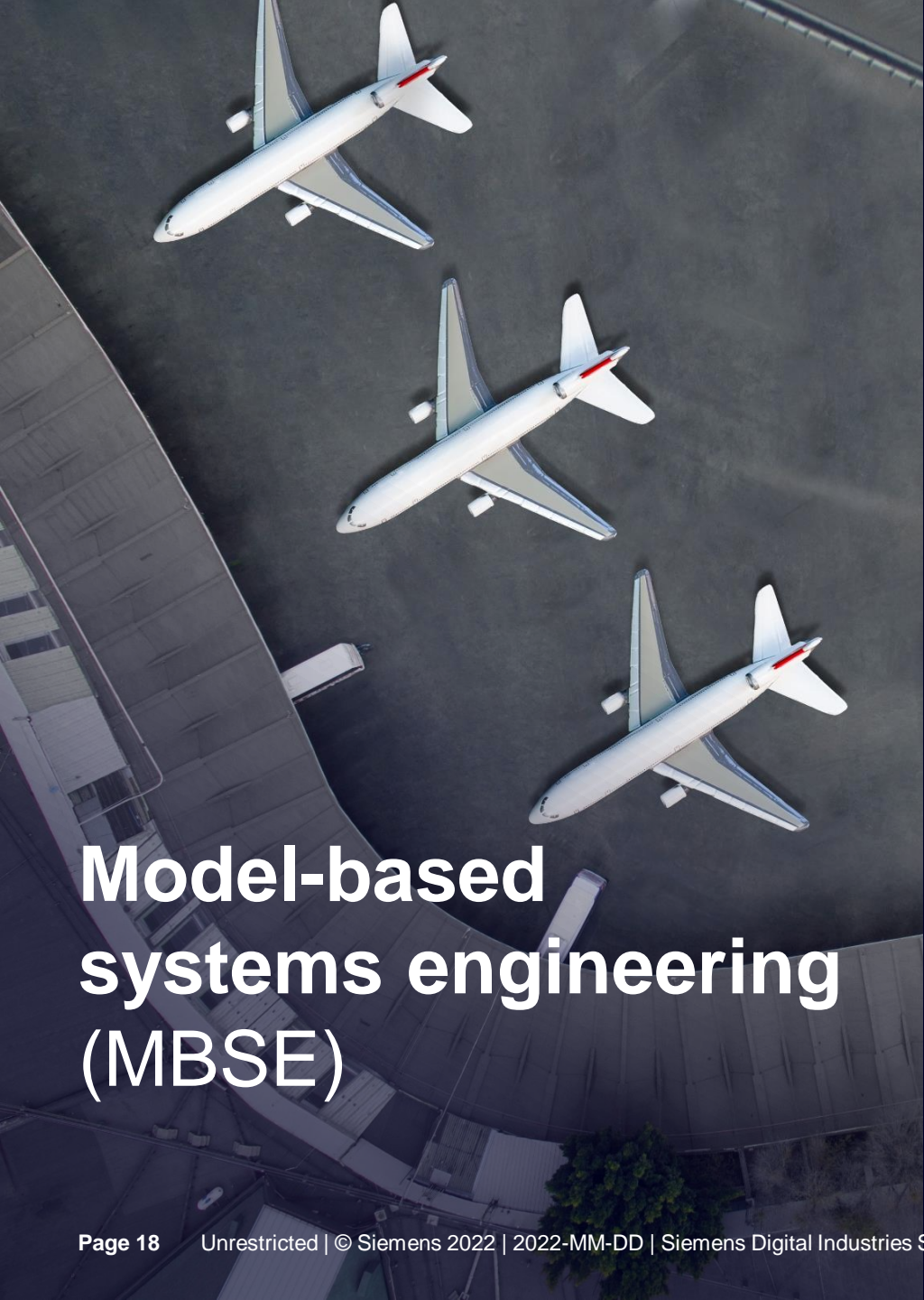
Community

Industry-specific maps for your digital transformation



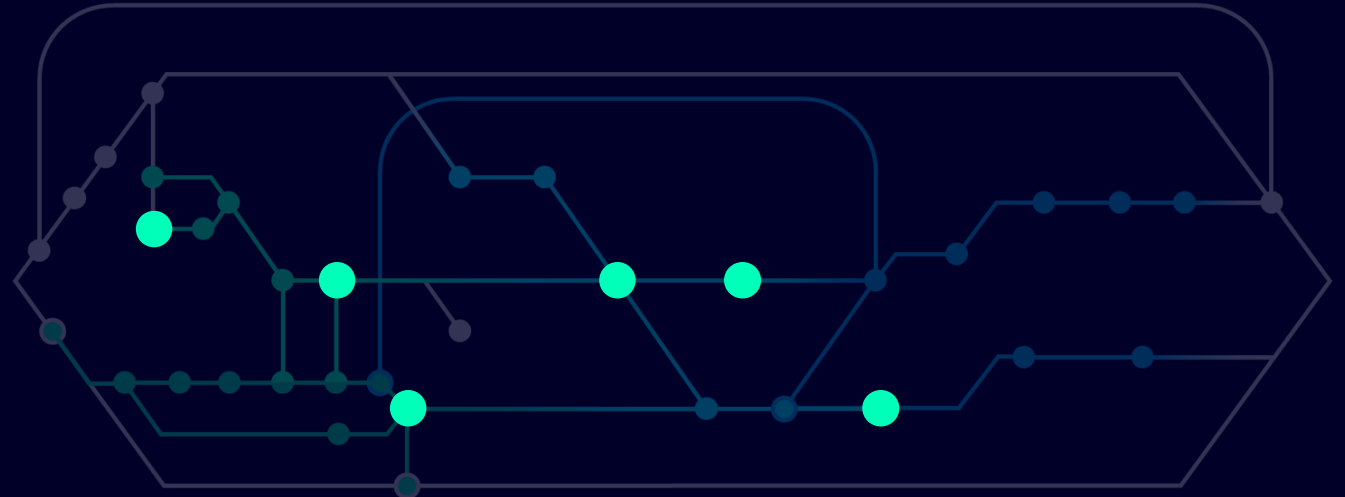
Digital threads

Digital threads are the map for your digital journey and accelerate your way to success.



Model-based systems engineering (MBSE)

Integrate development cycle to improve program execution in the aerospace industry



Define your system of systems

Modelling drives product architecture and requirements

Virtually test before you build

Reduce risk and the amount of testing

Manage program integration

Product and supplier integration using defined interfaces

Explore your design space

Multi-disciplinary optimization

Complete final verification

Full traceability of test and analysis to requirements

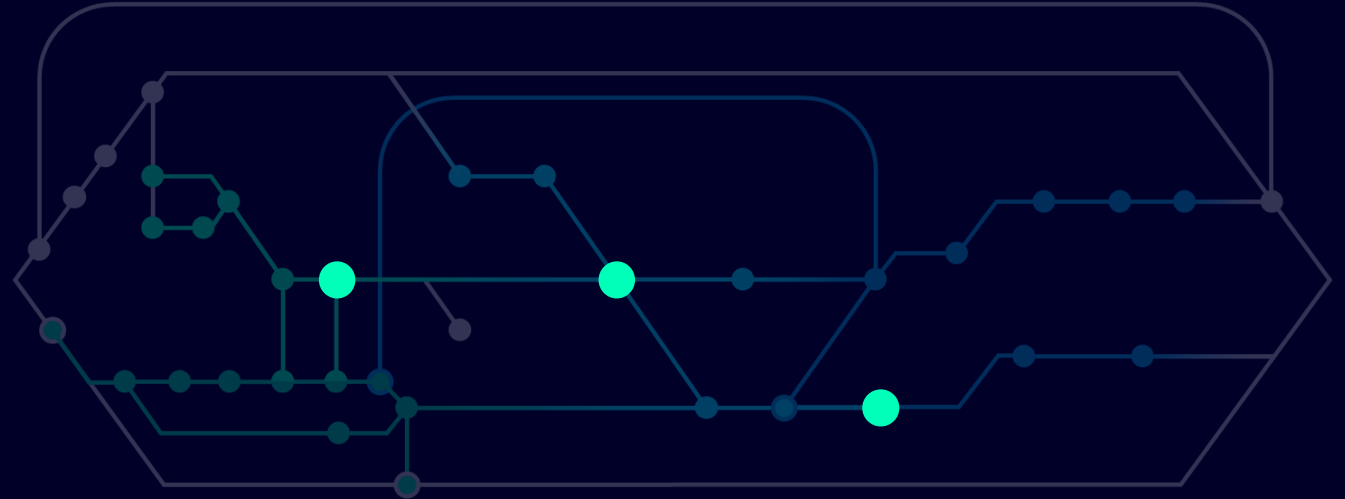
Define interfaces

Product architecture drives interface design



Smart product and process design

Ensure manufacturability for consumer products



Multi-disciplinary design

Comprehensive digital twin

Process design and planning

Efficient BOP development

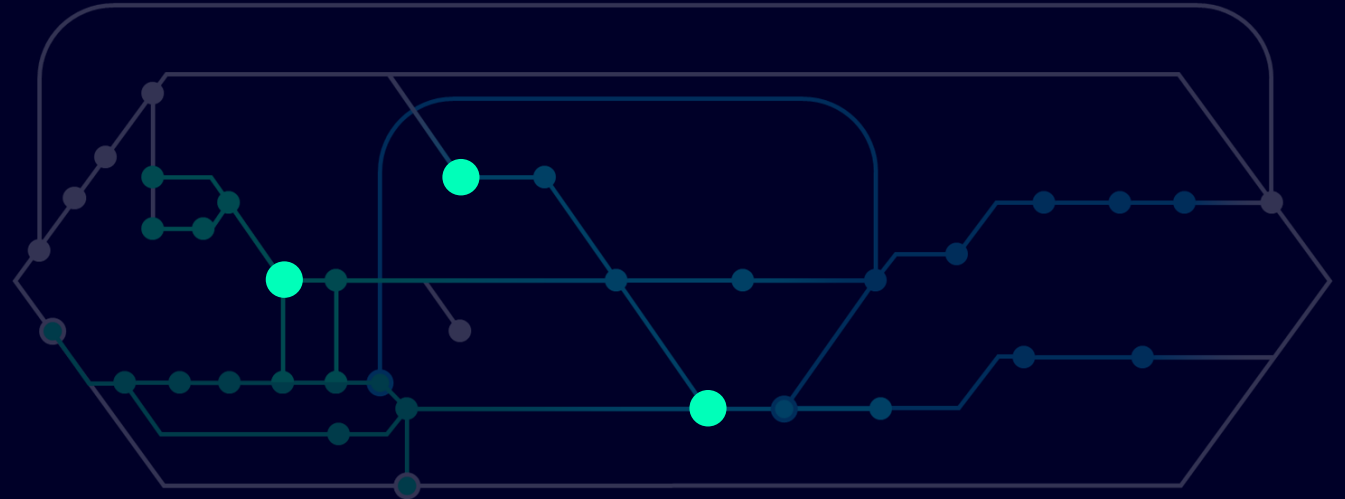
Manufacturing process validation

Early verification of manufacturability



Smart manufacturing

Increase flexibility and quality while optimizing operations technologies



Synchronized production information processes

Continuously optimize the supply chain and all operation sequences of your globally distributed production sites, shorten time-to-production and time-to-market

Advanced production technologies

Advanced Scheduling provides decision-making support for overtime, order prioritization, split production batches, due date negotiation and order processing

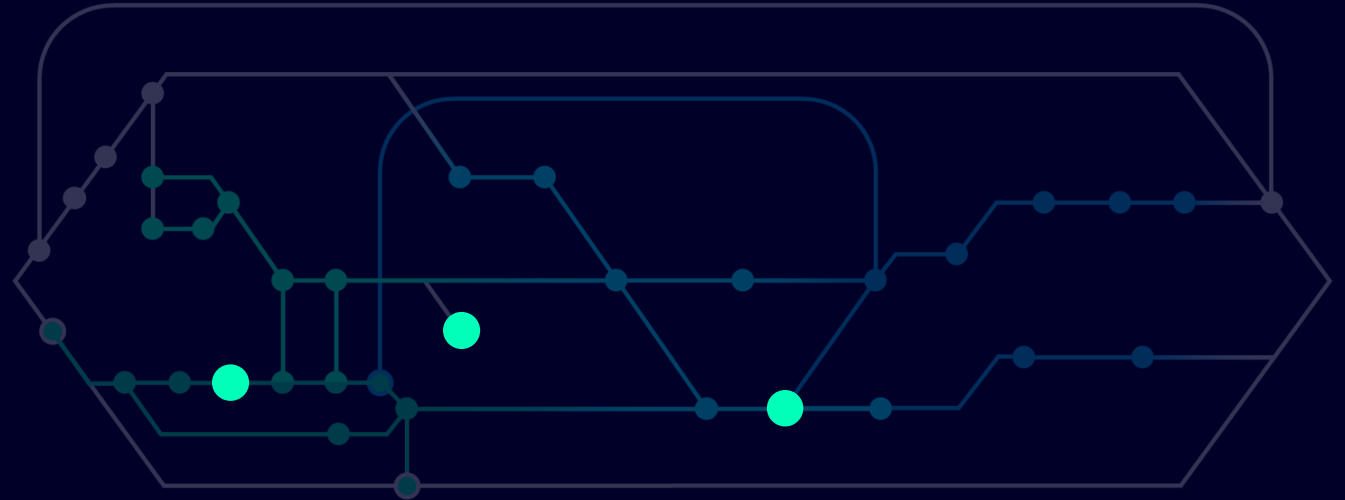
Closed-loop manufacturing

Use manufacturing operations management to power smart manufacturing



Accelerate product development

Support the process revolution through next generation design, simulation and manufacturing



Generative engineering

Engineering innovation with intelligent exploration

Design & simulation of the functional twin

Shifting decision-making earlier

Integrated design for additive manufacturing

Remove process delays and interruptions streamlining throughput



Digital transformation success stories

Electrify the pickup truck

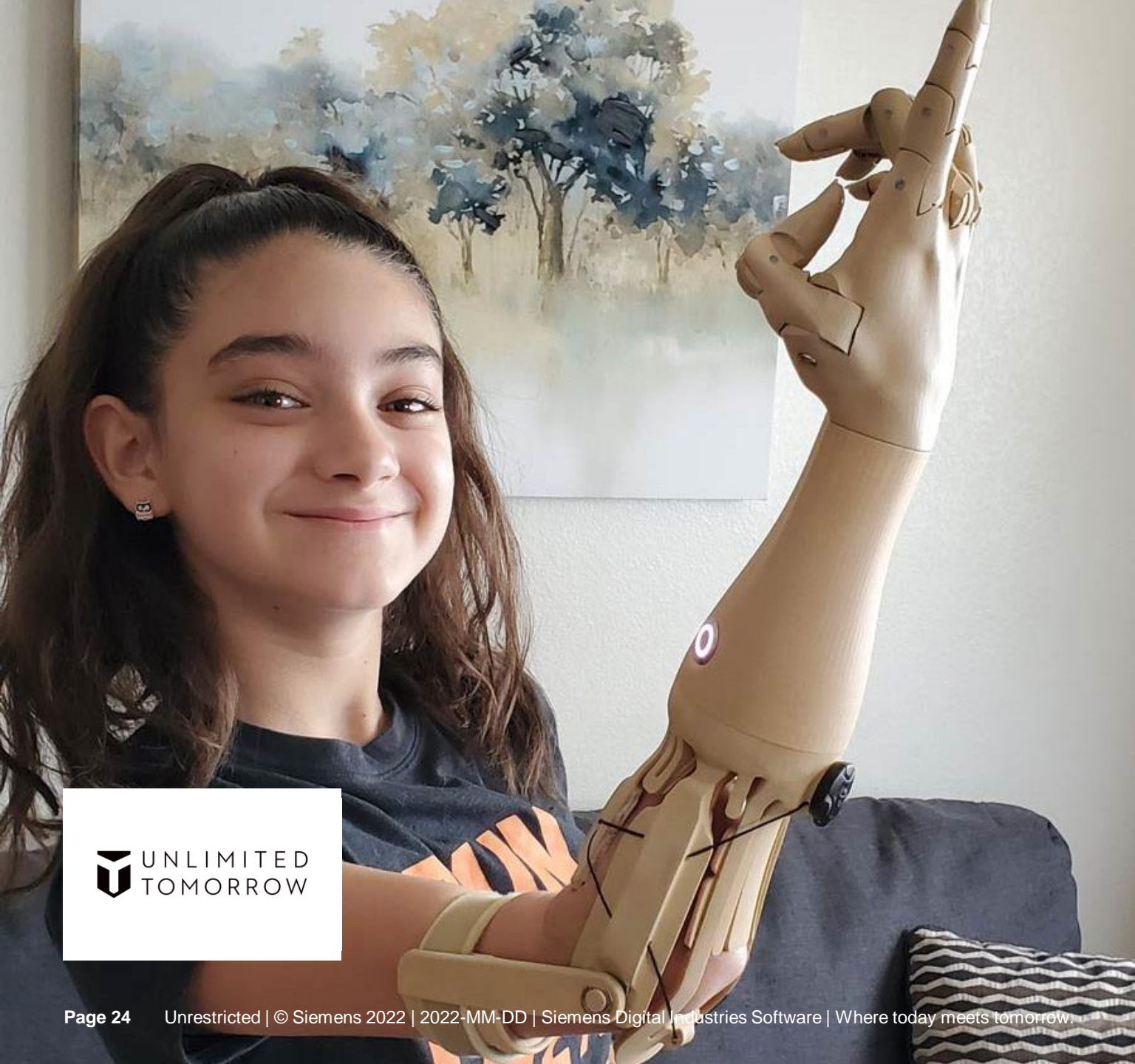
Why Siemens

Integrated electronics design, simulation, PLM

Data migration with no data loss, ERP connection and organization change management



LORDSTOWN.



Design and produce prosthesis for 90% less cost

Why Siemens

End-to-end additive manufacturing

Personalized and affordable solution

5x faster delivery

 UNLIMITED
TOMORROW



Expand product offerings in highly competitive market

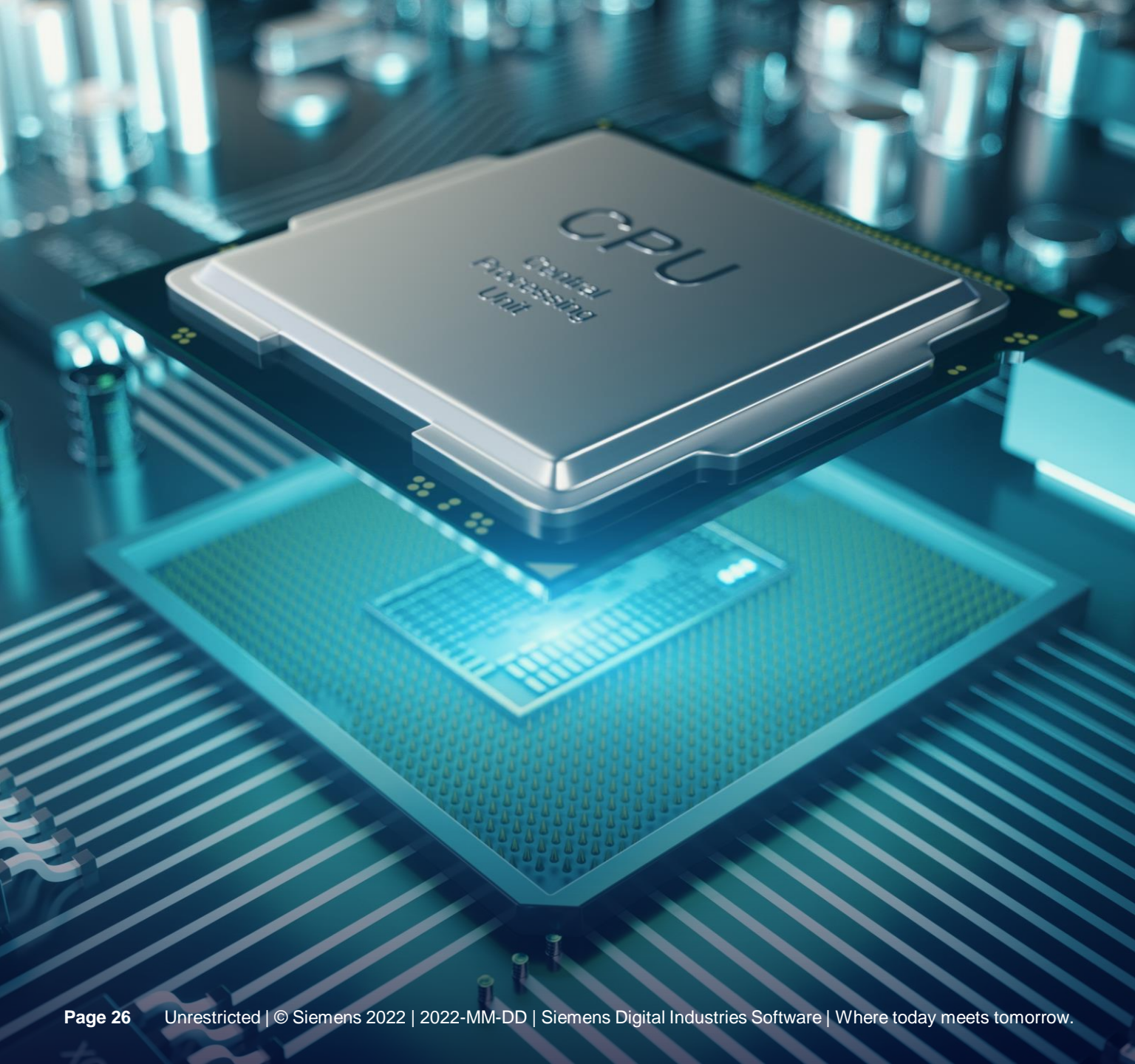
Why Siemens

Scalable solution for diverse and growing team

Minimal upfront IT investment

Reduced development time by 20% and produced 50% stiffer and 20% lighter parts





Electrical and mechanical integration enables advanced semiconductor chip design

Why Siemens

Complete electrical and mechanical portfolio

IC, package, PCB/systems, software and mechanical design



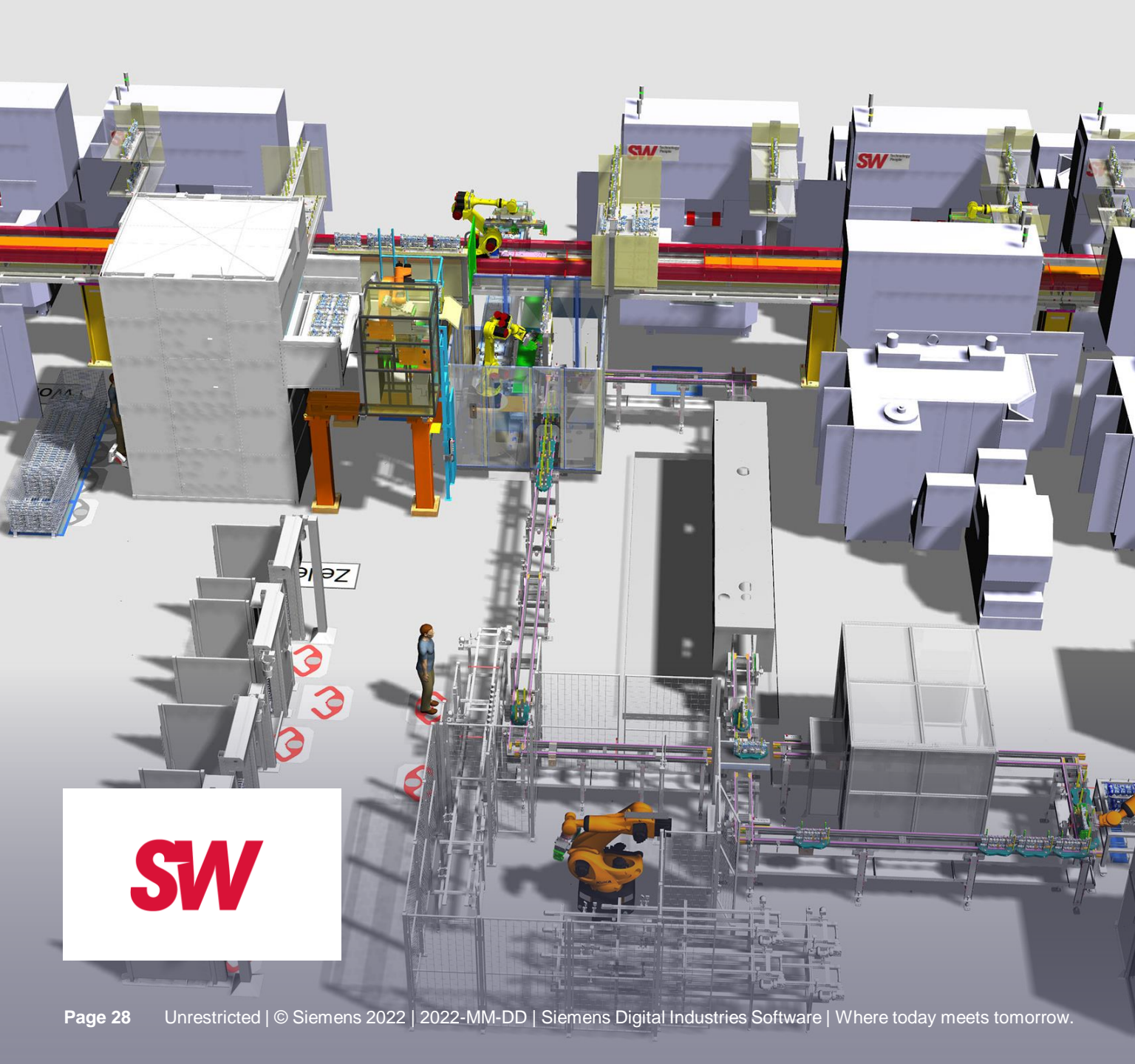
BIONTECH 

Develop and produce a COVID vaccine in record time

Why Siemens

Robotics, Manufacturing Operations, Automation

Conversion time for existing production facility cut from one year to five months



Increase efficiency and productivity through virtual commissioning

Why Siemens

Real-time digital twin of plants

Increase plant productivity by 10%

Reduce commissioning time by 30%

Avoid contractual penalties with high project security





Eliminate prototypes while reducing time to market

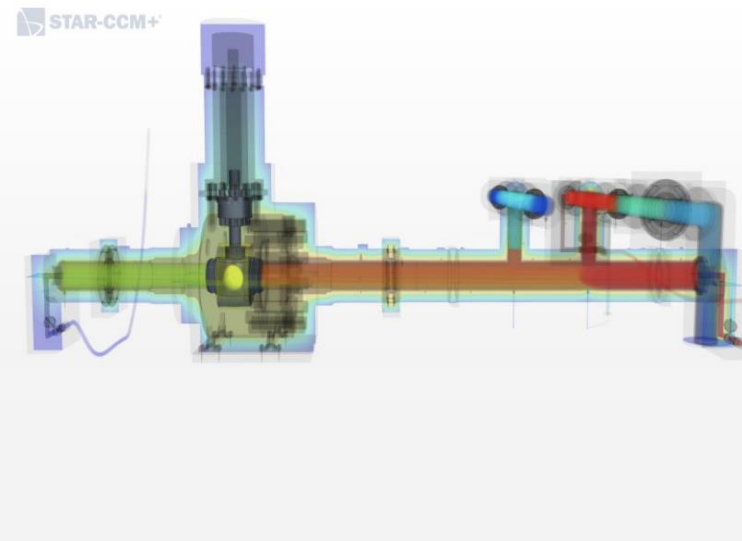
Why Siemens

Comprehensive digital twin to develop new form of plastic wrapping

Reduced plastic use by 70% and energy consumption by 90%

Development costs cut by 30%

TRAK RAP[®]
REVOLUTIONARY PACKAGING SYSTEM



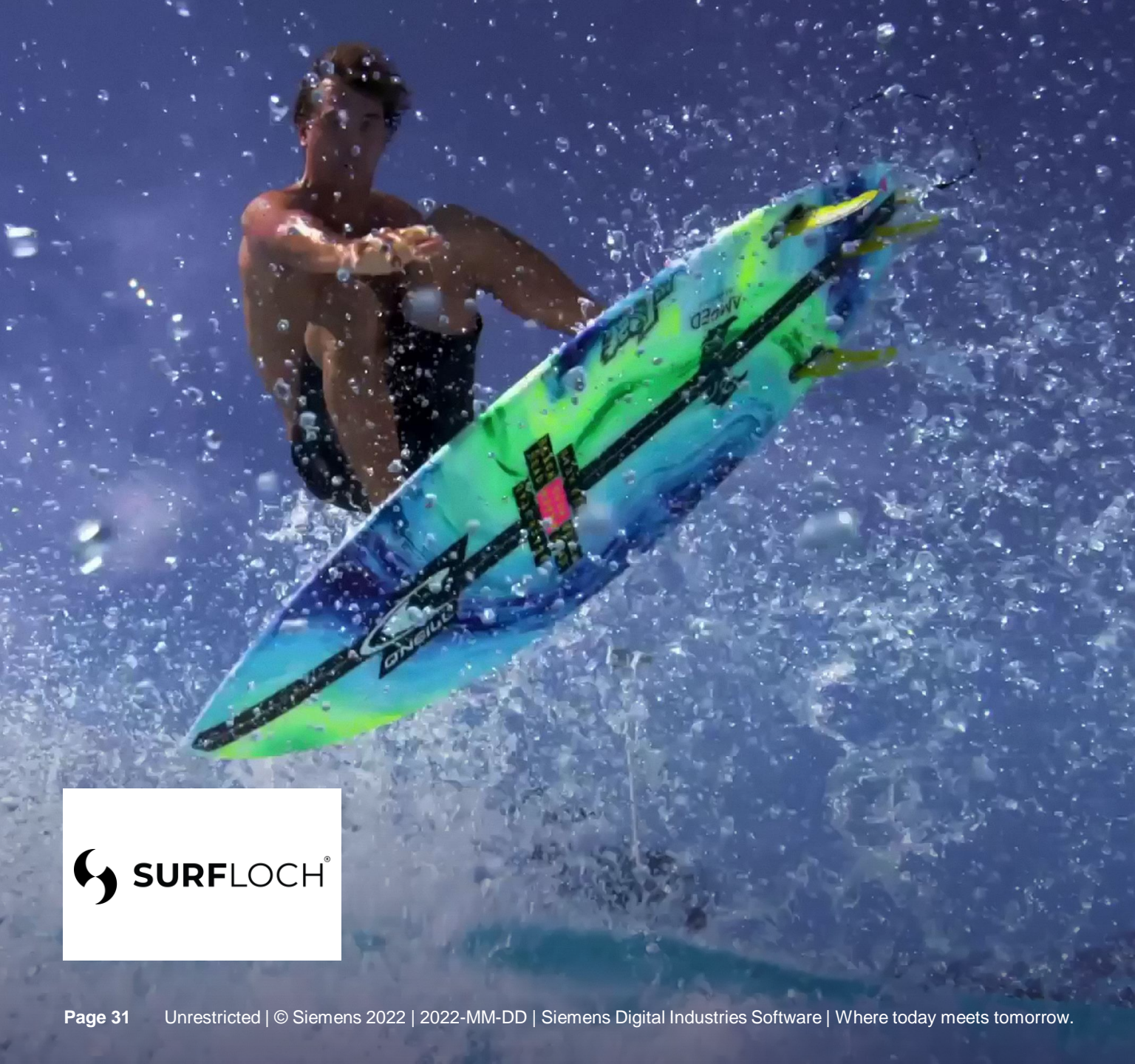
Reduce operational risk and increase uptime

Why Siemens

Combining design and simulation models with real-time operating data

Increased asset profitability

Accelerated sustainable energy production



Create the perfect wave – anytime, anywhere

Why Siemens

Only vendor with IT and OT

IIoT solutions

Industrial Edge



Digital transformation is for everyone

**Creating a better future
where anyone can turn
today's ideas into
tomorrow's products
and experiences.**