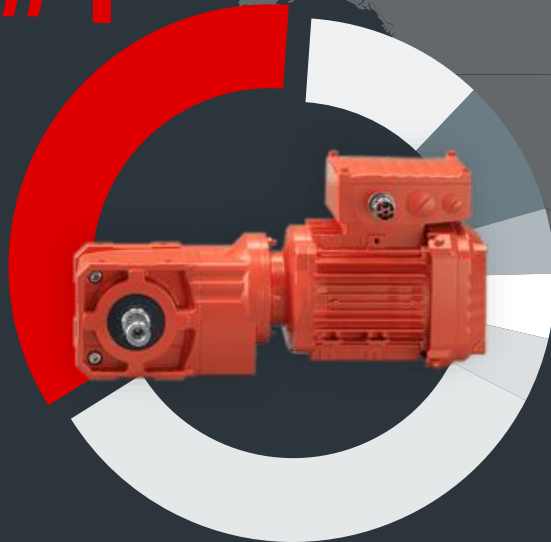


Digital Solutions **Efficiency, Transparency,** **Sustainability**

How Digital Solutions Transform the
Product Lifecycle

Our Real DNA!

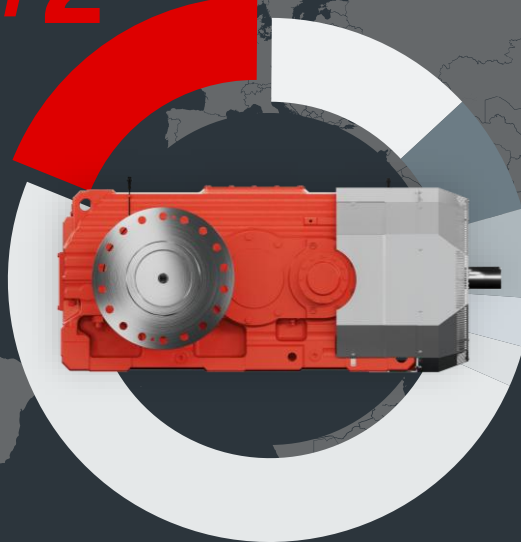
#1



Gear motors

Ratio of sales share 2024:
56.8%

#2



Industrial gear units

Ratio of sales share 2024:
14.5%

#8



Mechatronics

Ratio of sales share 2024:
13.8%

OUR ROOTS

Our Real DNA!



Individual products



Applications



System solutions



Industry know-how



Life Cycle Services



Industry 4.0

This is what we call customer proximity

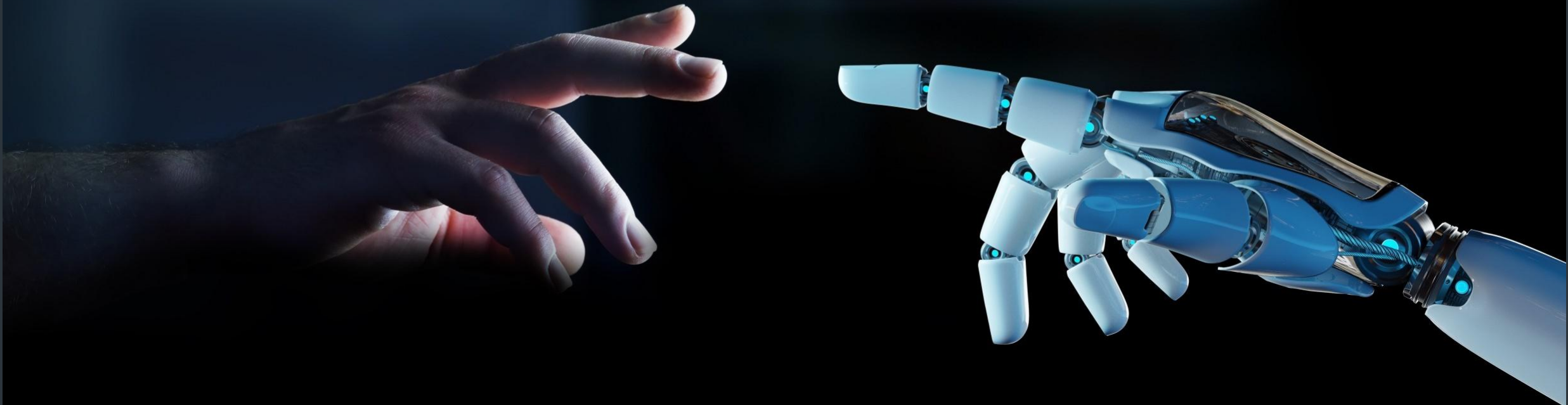


The key success in the future

Investing in the future

AI GENERATED

From customer needs to **digital solutions**,
the key to success in the future...



The world is changing...

Shortage
of Skilled Workers
De-Globalization
Political Uncertainties



Establishing the Circular Economy
at Efficient Products and Processes
De-Carbonization
Net Zero Industry Act
All Electric Society

Skilled Worker Shortage
Demographic Change
New Work and Worklife Balance
Lifelong Learning



Connect the Unconnected
Digitalize it
Digitalization
Platform Economy
Attitude Behaviour Gap

The 4D Megatrends challenging the World!

Rethinking Resilience

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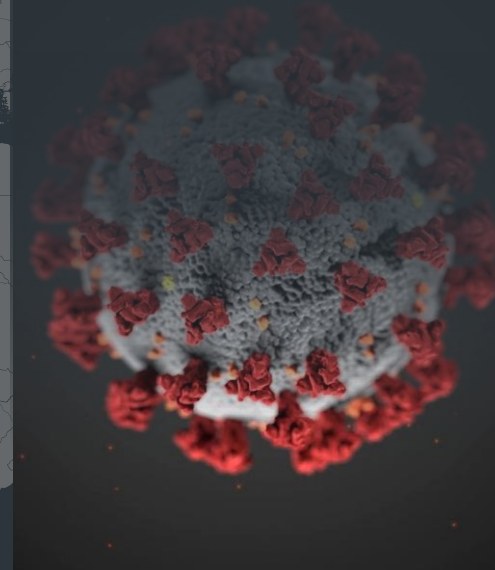
Supply chain crisis



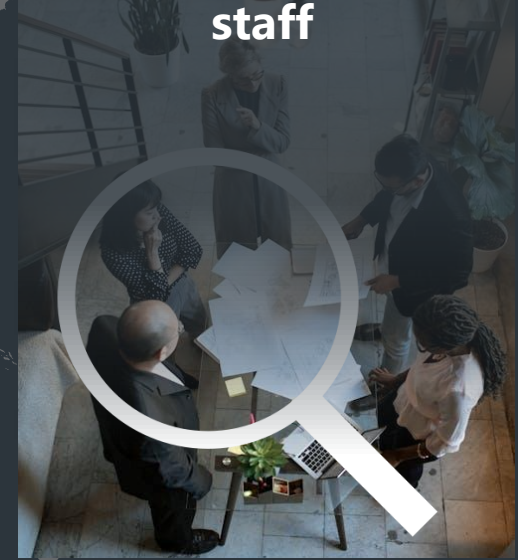
Political distortions: sanctions embargo, war



COVID



Shortage of skilled staff



The key success in the future

Why Digital Solutions?

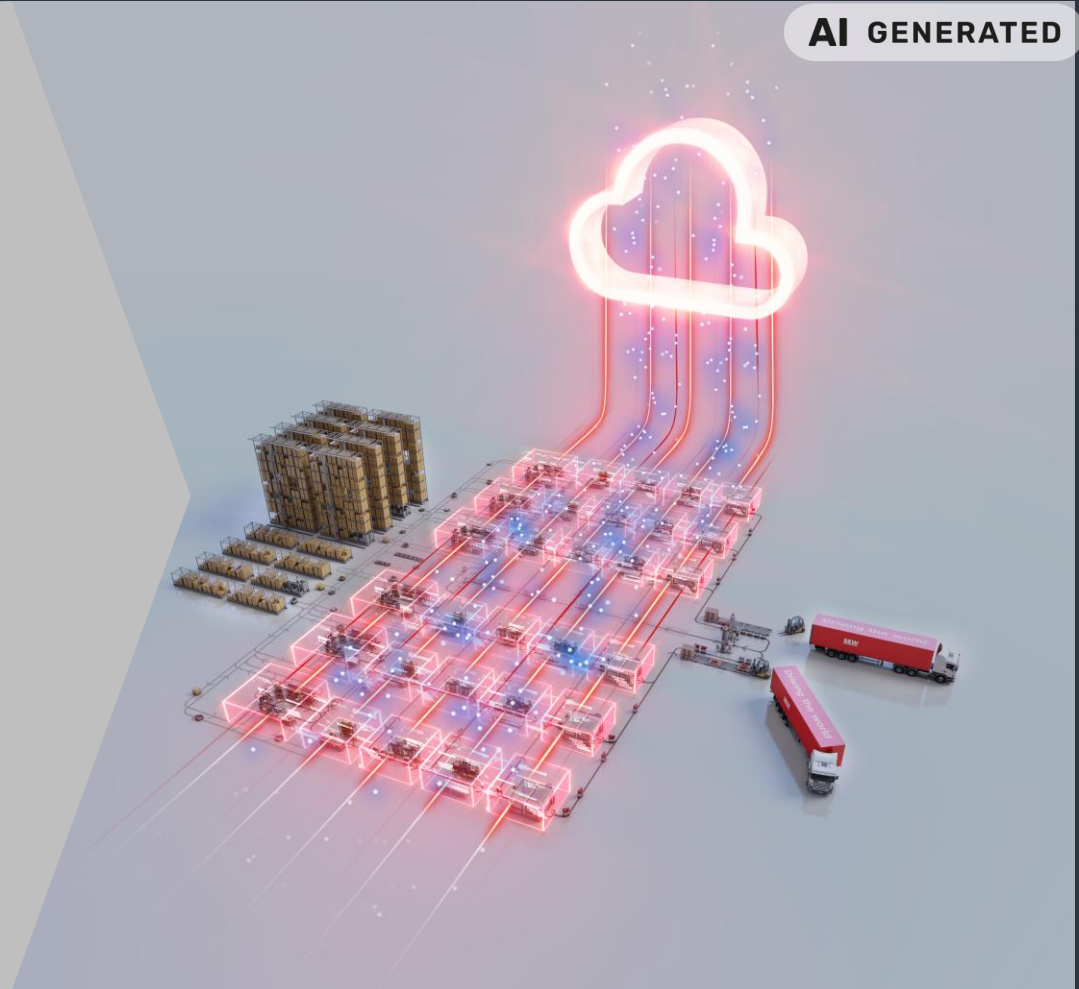
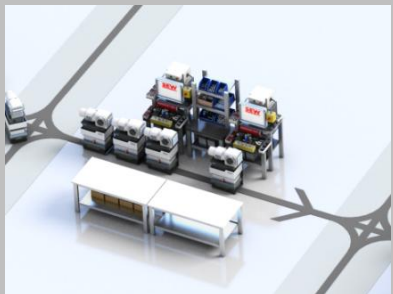
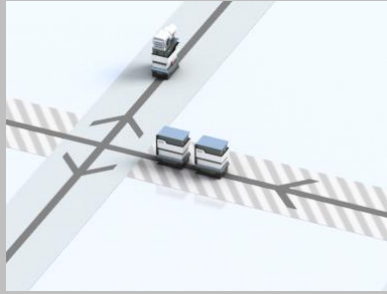
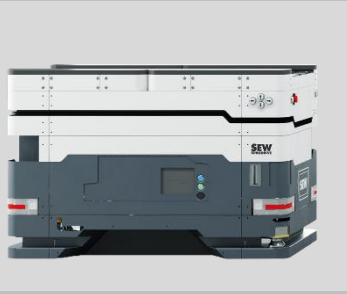


...
DIGITALIZATION
makes things
simpler and more
efficient!

The key success in the future

Why Digital Solutions?

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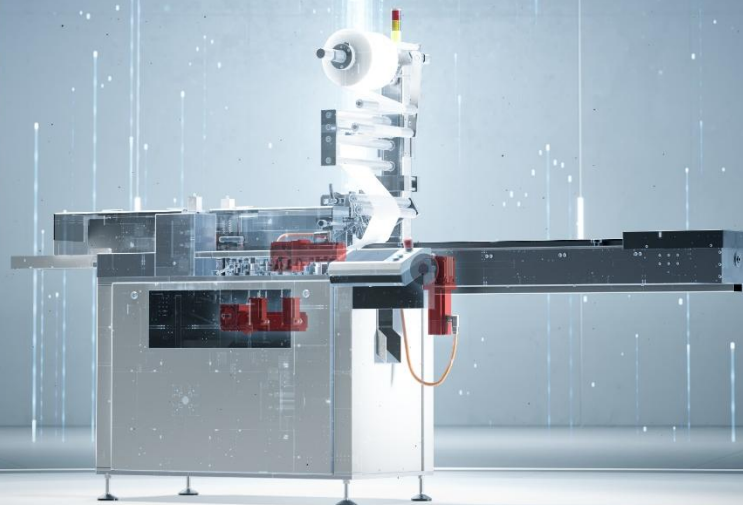


Digital Solutions along the Lifecycle

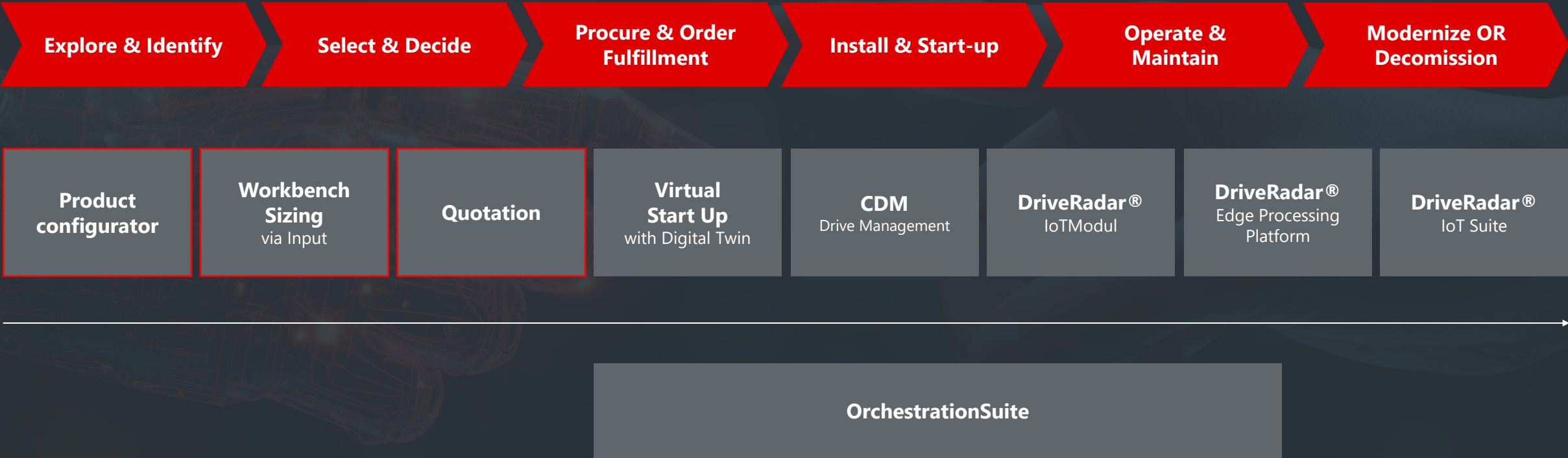
PACKAGING EXAMPLE:

FLOWPACKER

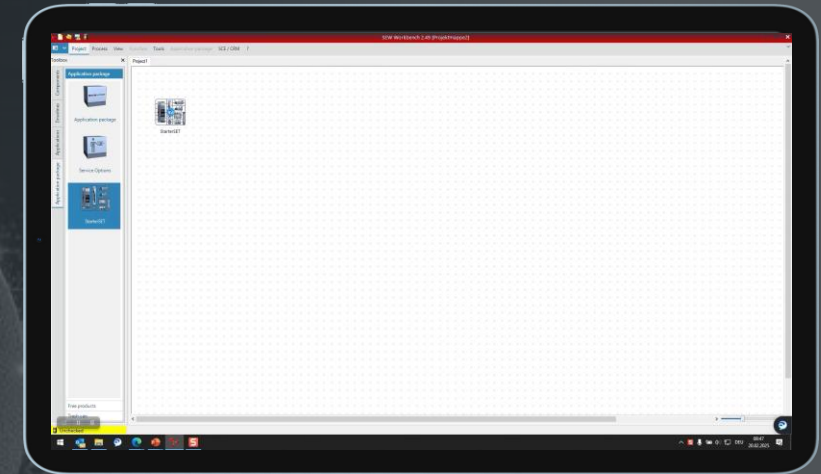
HORIZONTAL
FORM FILL
SEAL MACHINE



Digital Solutions along the Lifecycle



Product configurator & SEW Workbench

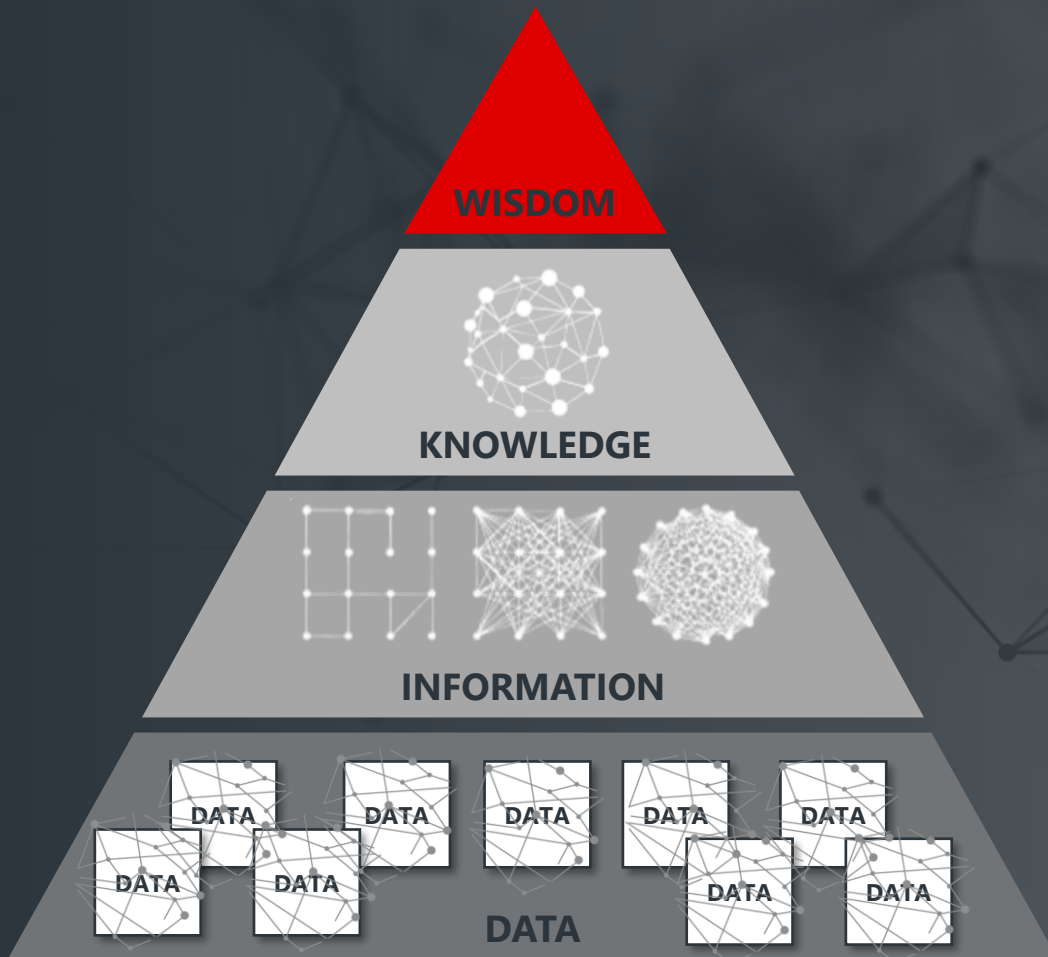


**SIMPLE SELECTION
AND TRIVE TRAIN
CONFIGURATION**

Digital Solutions along the Lifecycle



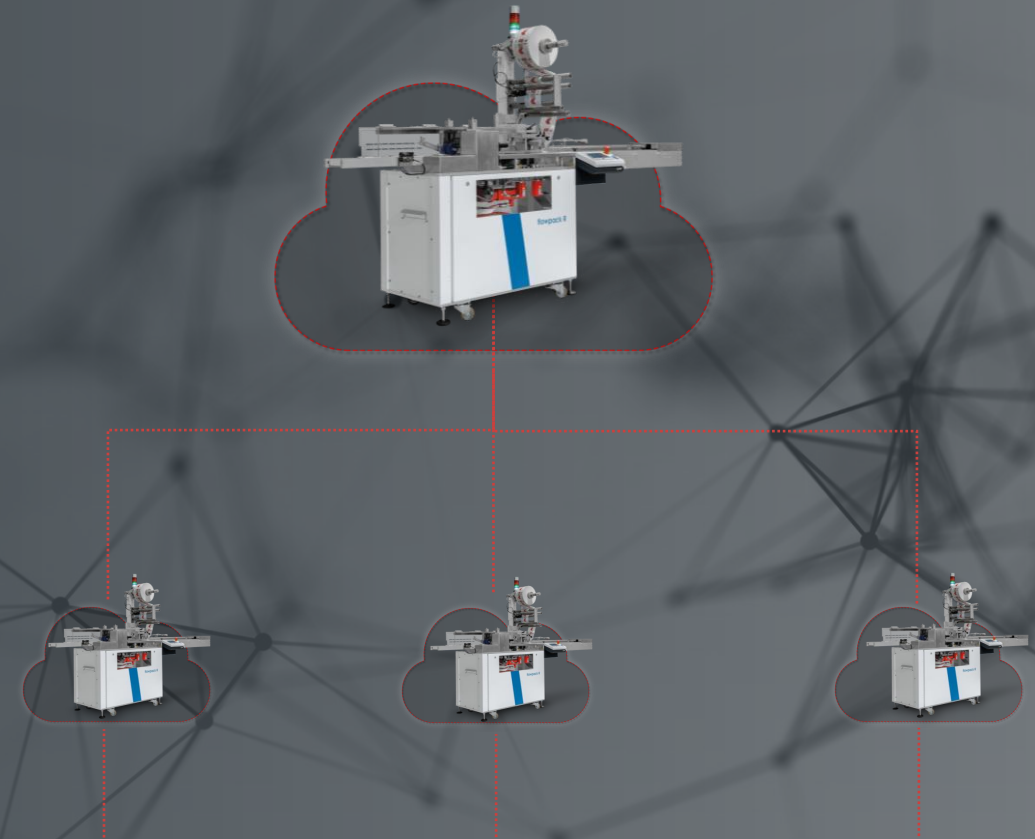
What is a digital Twin?



A DIGITAL TWIN IS A VIRTUAL REPLICA OF A PRODUCT OR PROCESS THAT SIMPLIFIES COMPLEXITY THROUGH DATA, INFORMATION, AND KNOWLEDGE.

What is a digital Twin?

**A PRODUCT HAS
THOUSANDS OF DIGITAL
TWINS, COVERING BOTH
THE PRODUCT AND ITS
PROCESSES!**



Explore & Identify

Select & Decide

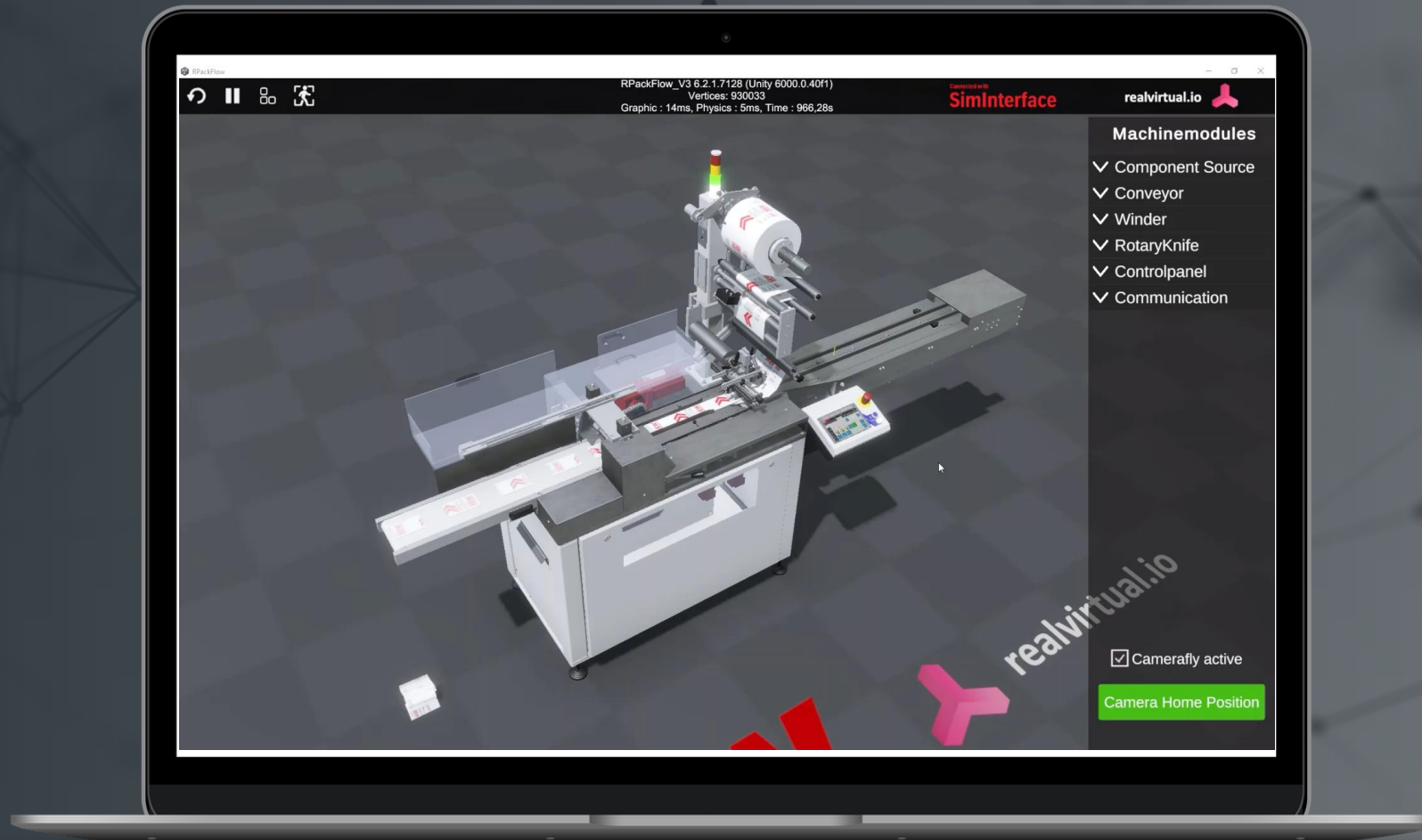
Procure & Order
Fulfillment

Install & Start-up

Operate &
Maintain

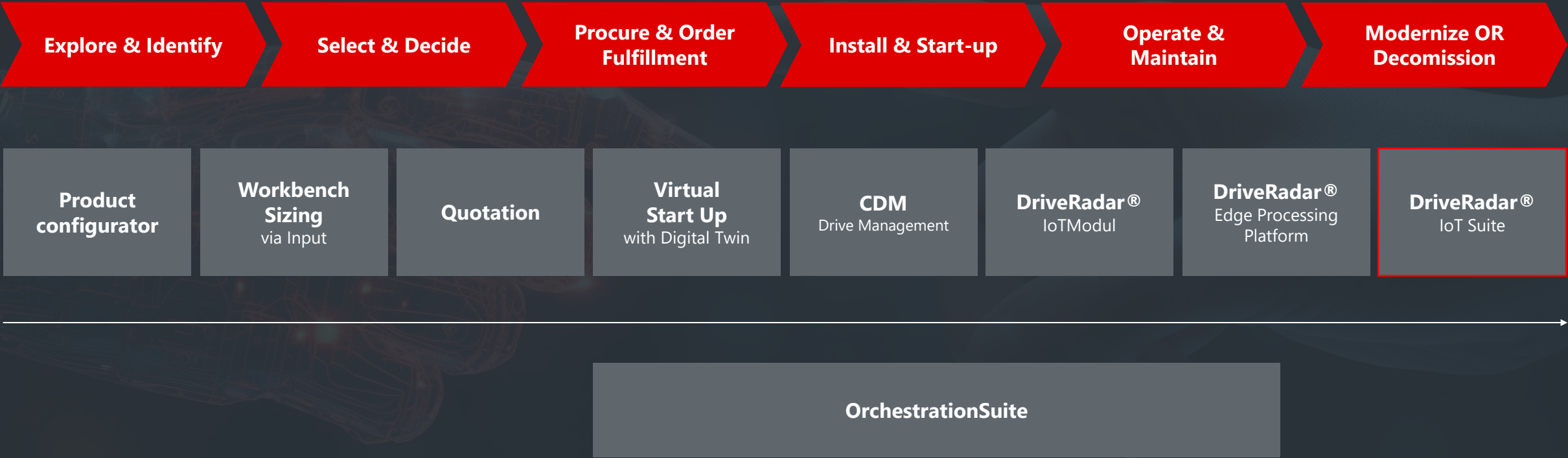
Modernize OR
Decommission

Virtual Start Up with Digital Twin



Digital Twin
reduces costs and
shortens
development time

Digital Solutions along the Lifecycle



Three steps to the analyzed data...

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#1

Data Detection

Get real time machine data

#2

Data Preparation!

Get a clean data basis

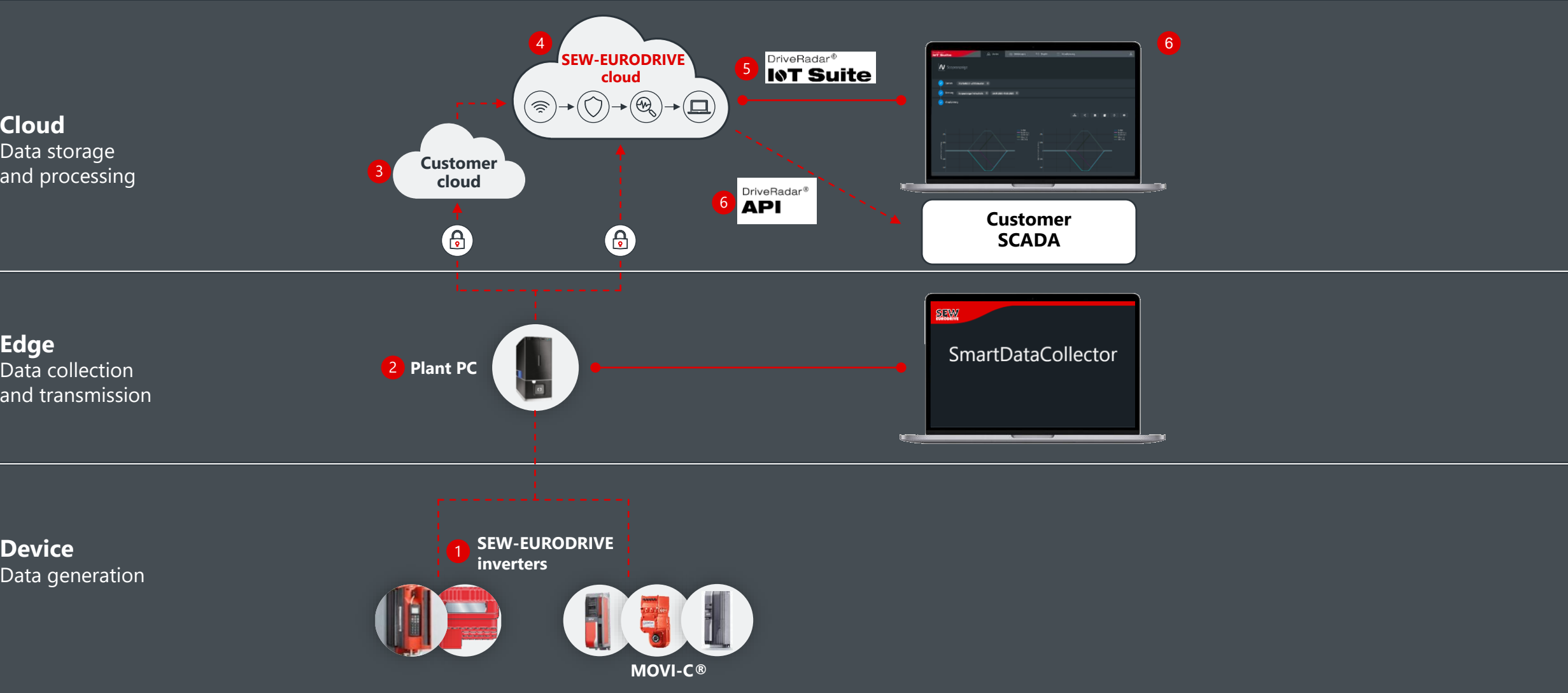
#3

Scale up!

Monitor thousands of machines
and focus on relevant assets

DriveRadar® IoT Suite

Architecture



The Modular Web Application

Asset Management list

Message list

Module Rule Editor

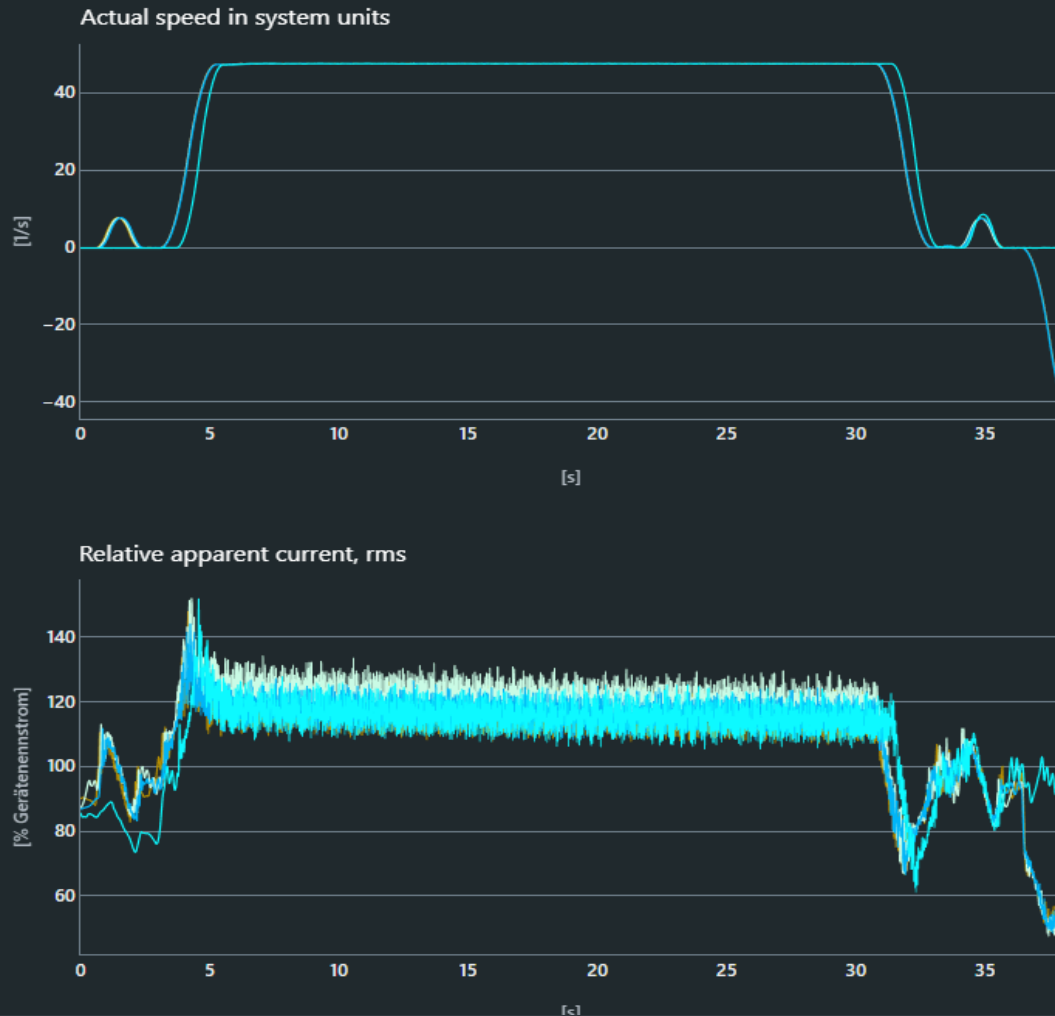
Visualization of raw data

Anomaly detection



IoT Suite
reduces downtime and
maintenance costs

The Modular Web Application



High-resolution „Scope measurements“ in inverter from SEW-EURODRIVE



Infrequent measurement
e. g. every 3h per device



Synchronous measurement
of speed and torque (and further channels) allows for deep insight of the condition a movement of the application



Process-orientated
Measurement of the complete motion sequence allows for detailed analysis of acceleration, constant travel and deceleration



**Demand driven collection
of inverter parameters**
as little as possible (firmware version only once per day)

Data is often available, but rarely truly analyzed!



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Digital Solutions along the Lifecycle



OrchestrationSuite

What if ...

... on-site visits were no needed for commissioning, diagnostics, or support.

... technicians could instantly understand, access and modify PLC code remotely.

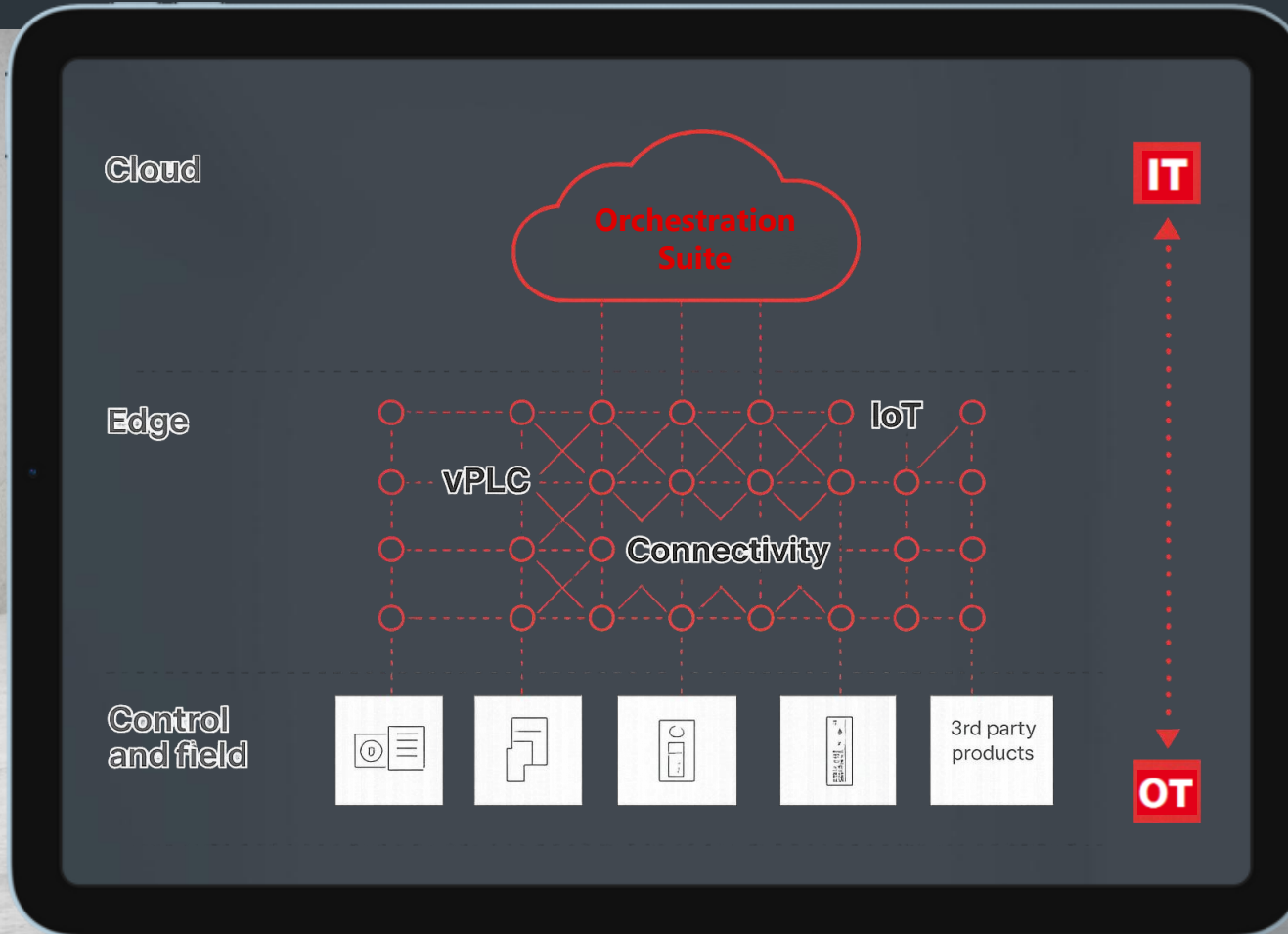
... industrial automation was as flexible and efficient as modern IT systems.



Then ...

customers can flexibly respond on demand, manage and optimize their systems remotely, and independently access from all the world

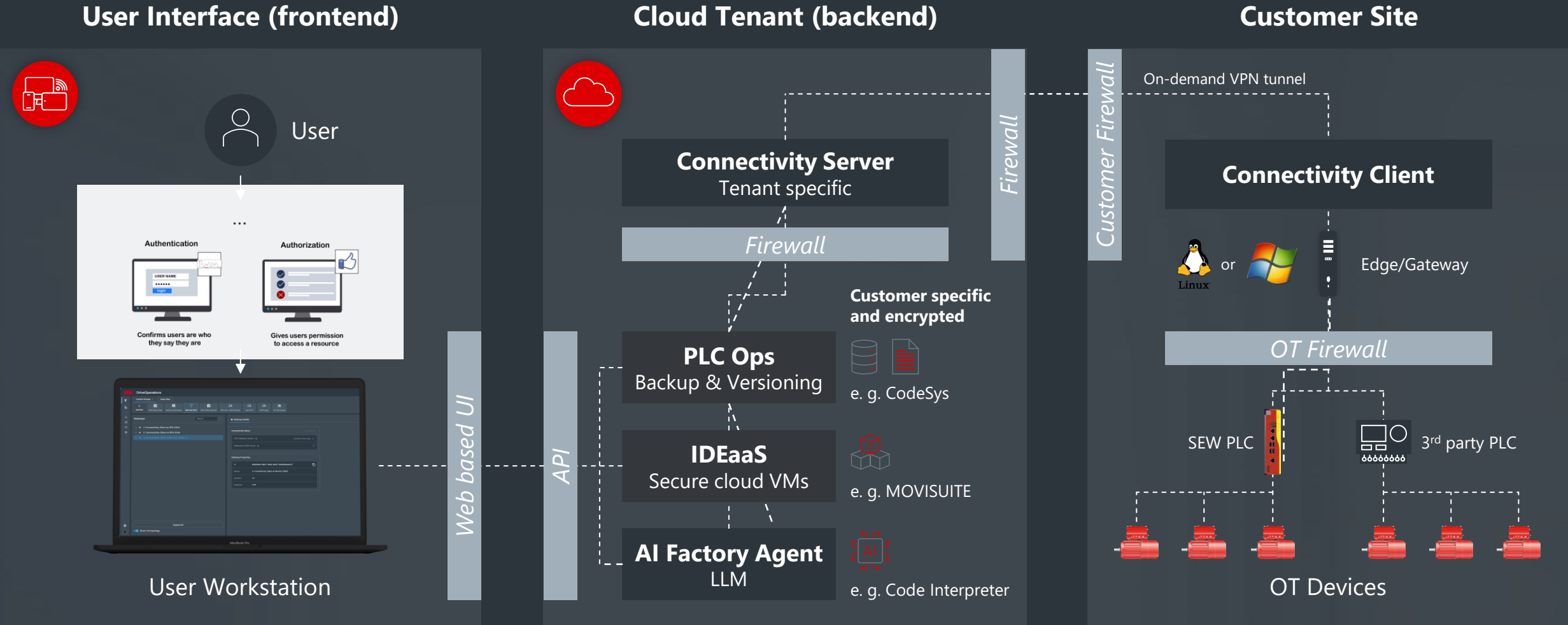
What is OrchestrationSuite?



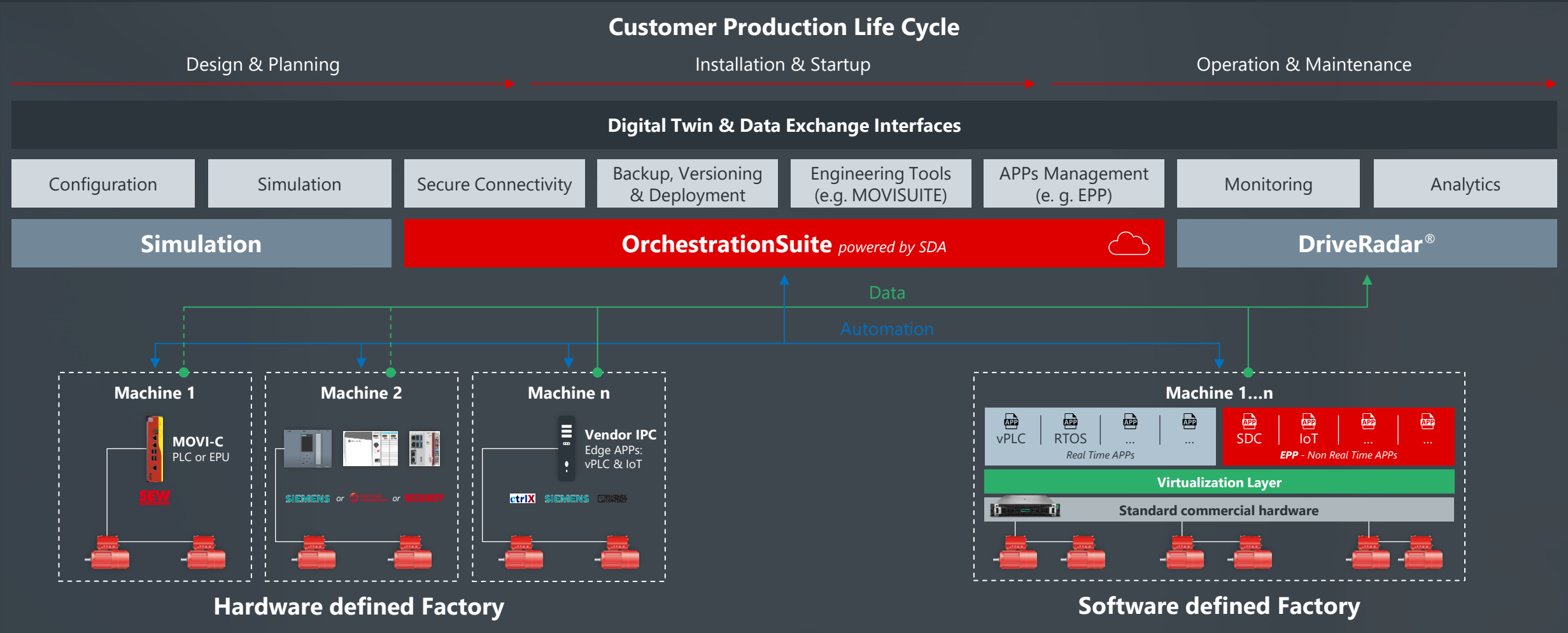
OrchestrationSuite is a web-based tool that simplifies the software orchestration and deployment

for diverse, multi-vendor field devices, including PLCs, robots HMIs, and drives.

OrchestrationSuite Architecture



How does OrchestrationSuite fit into the picture?



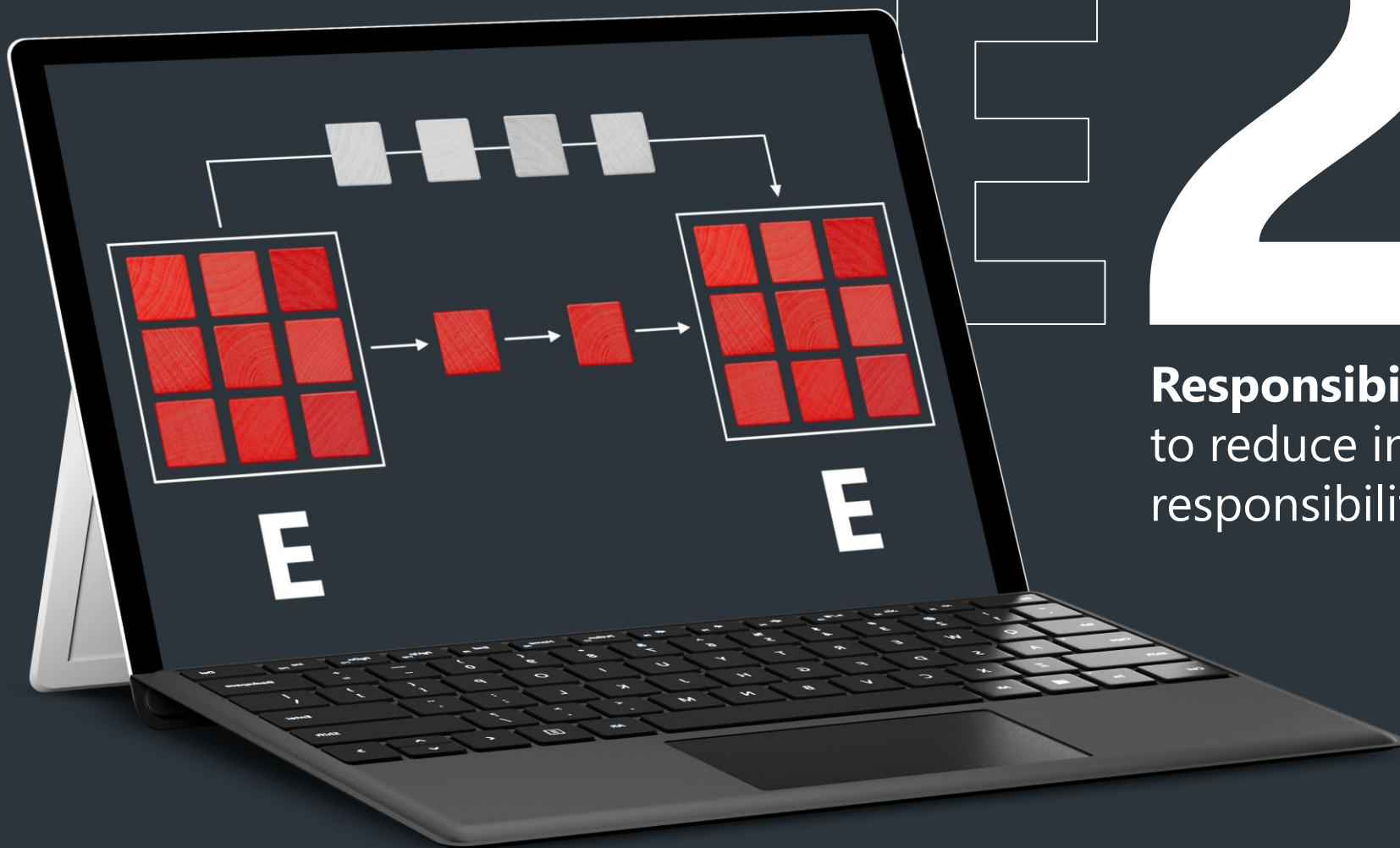
The future is now!

Digital Solutions along the Lifecycle



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CONCLUSION & OUTLOOK



E2E

Responsibility along the process chain
to reduce interfaces with clear
responsibility.

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TIME FOR DIGITAL SOLUTIONS:

**Let's shape the future
together!**





Alexander Hack

Group Manager
CSC-E A MA

SEW-EURODRIVE GmbH & Co. KG

Ernst-Blickle-Str. 42
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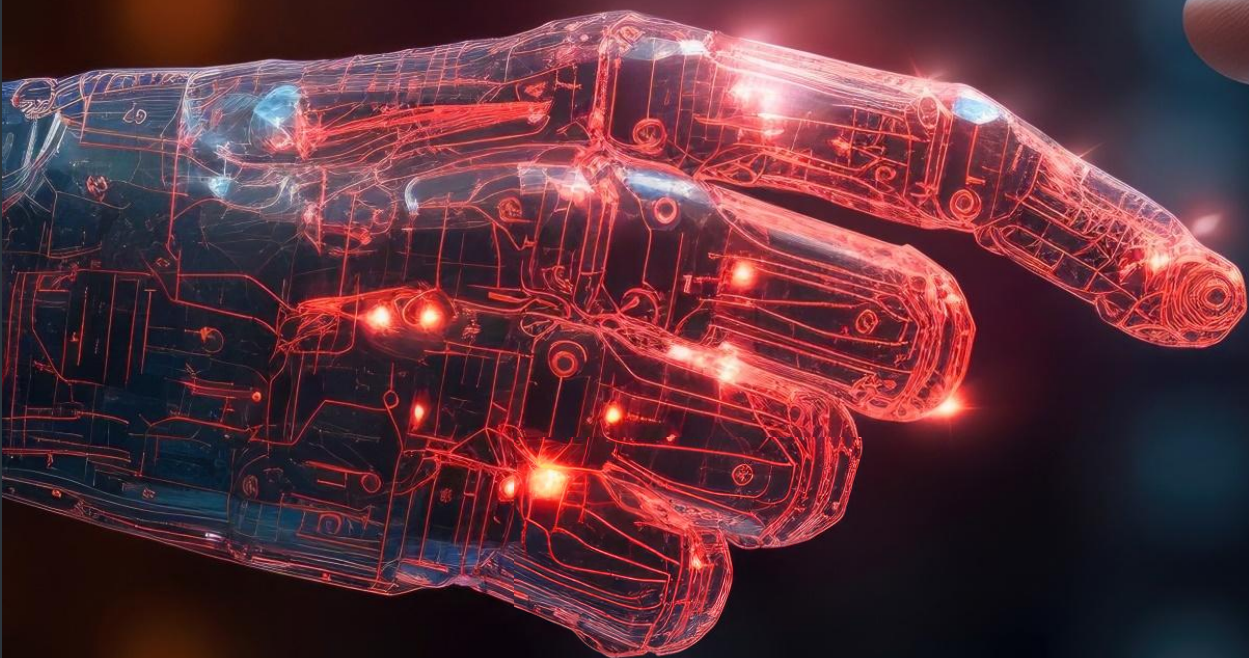
linkedin.com/in/alexander-hack-97938711/

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Stand
1 - 420

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THANK YOU!