Get our press kit here
www.siemens.com/press/sps24

SIEMENS
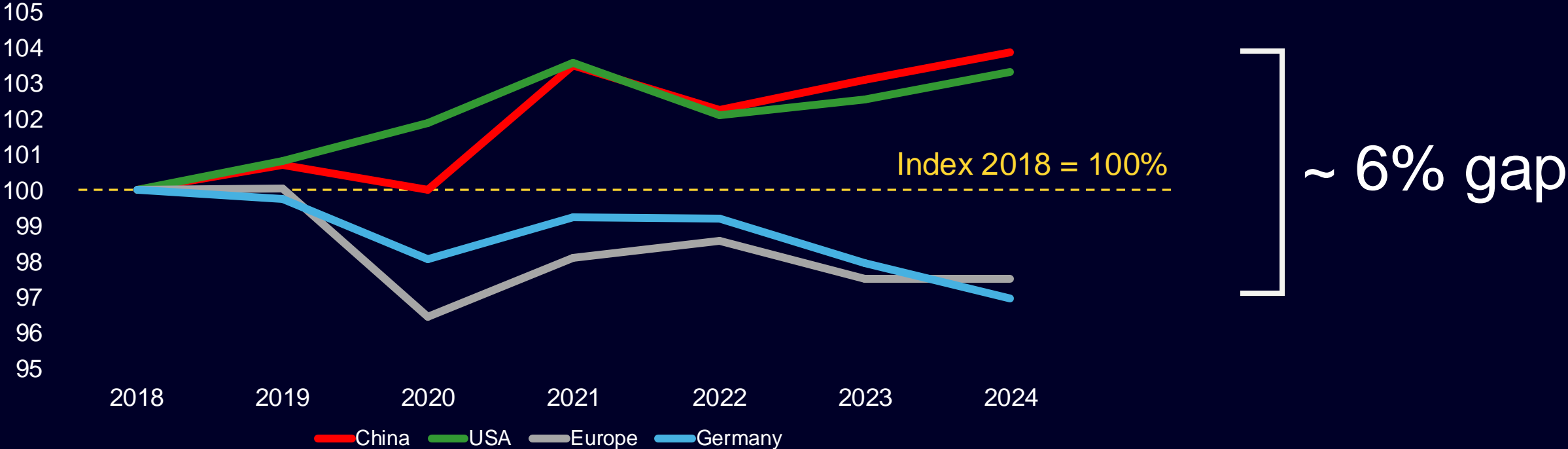
Supercharging automation – the next generation

Siemens Press Conference at SPS 2024
Rainer Brehm, CEO Siemens Factory Automation

SIEMENS

EU and German industry need innovation for more productivity

## Significant decline in productivity

Total Factor Productivity 2018 – 2024

Index 2018 = 100%

~ 6% gap

2018 2019 2020 2021 2022 2023 2024

— China — USA — Europe — Germany

Source. TED Conference Board, Macrobond

SIEMENS

The next generation of Siemens automation is here

Innovation across all levels on Siemens Xcelerator

Totally Integrated Automation

+

Industrial Operations X

Management
Operations
Control
Field
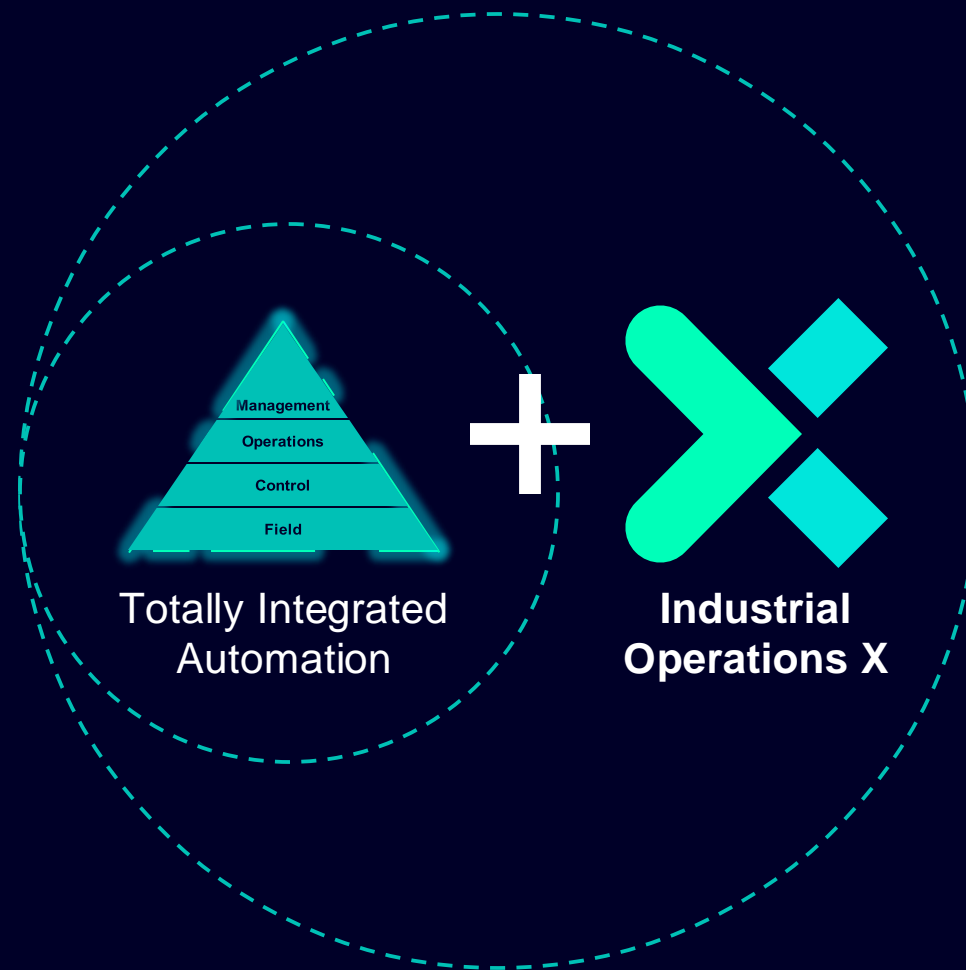
SIEMENS

The **next generation** of Siemens automation is here

Innovation across all levels on Siemens Xcelerator

→ Higher productivity

→ Higher adaptability

Totally Integrated Automation

Industrial Operations X

Unrestricted | © Siemens 2024 | Rainer Brehm, CEO Siemens Factory Automation | Siemens Press Conference SPS 2024 | November 12, 2024
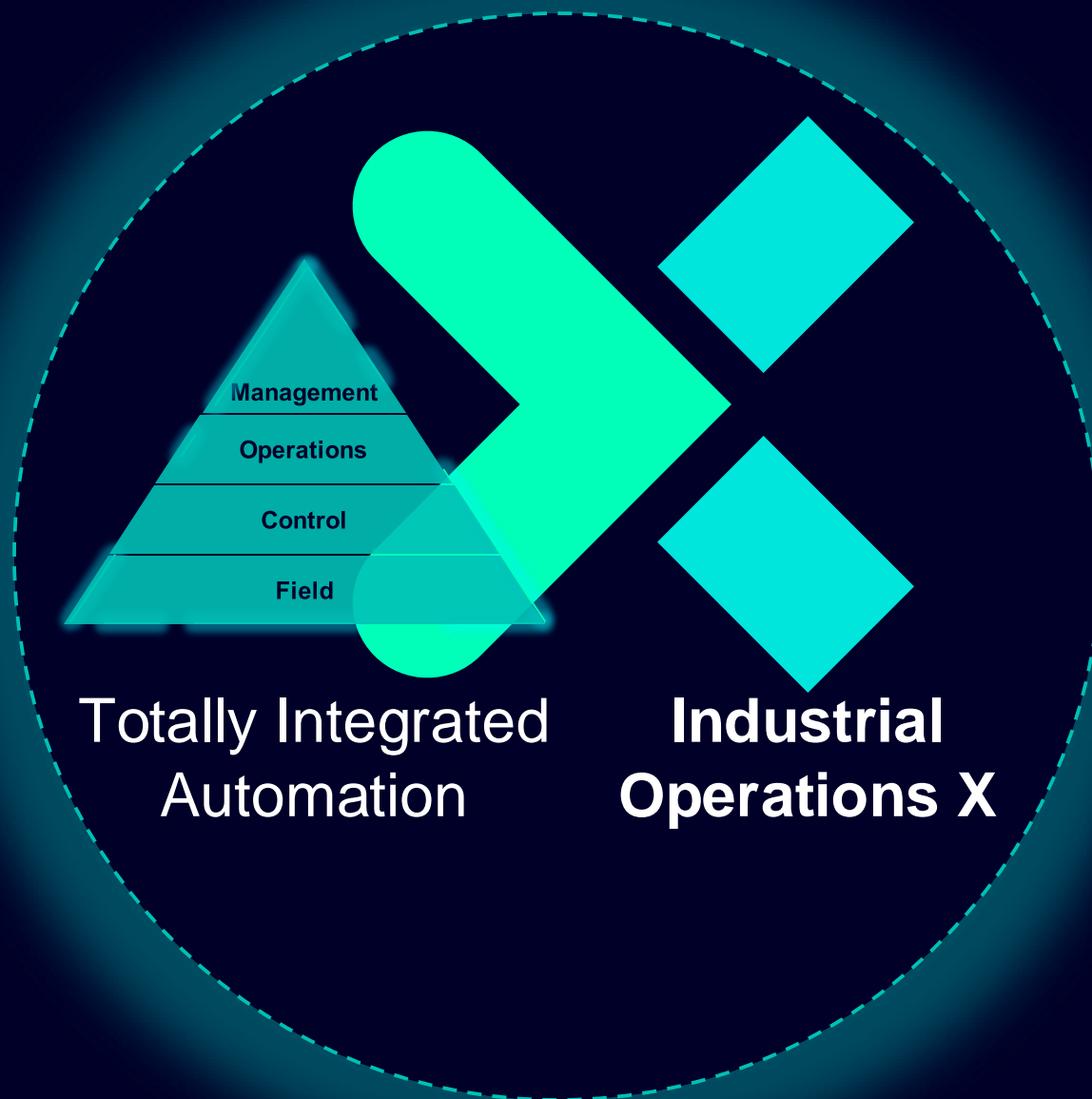
SIEMENS

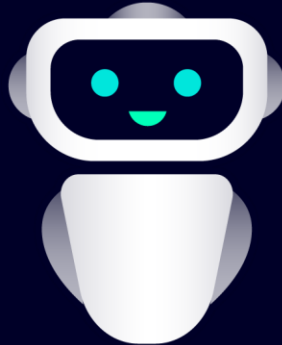# Siemens creates next generation of automation

Boost performance
of automation

Accelerate industrial AI
for every entry level

Expand GenAI
offering for industry

SIEMENS

Performance boost across the entire automation portfolio
Elevating performance on field, control, and operation levels

Operation

Edge Management System	SCADA	Network Management	Automation Engineering System	Process Control Systems	Energy Management	Maintenance	Cyber-security
NEW	NEW		NEW	NEW			NEW

Control

Controller	HMI	IPC	Industrial Communication	Motion Control	CNC
NEW	NEW	NEW	NEW	NEW	NEW

Field

Robotics/ AGVs	Industrial Controls	Distributed I/O	Drive Systems	Switch Gears	Industrial Identification and Locating	Process Instrumentation	Process Analytics	Power Supply and Distribution
NEW	NEW	NEW	NEW	NEW	NEW			

SIEMENS

Field – Revolutionizing starter technology

NEW

Intelligent Link Module
Sirius 3RC7
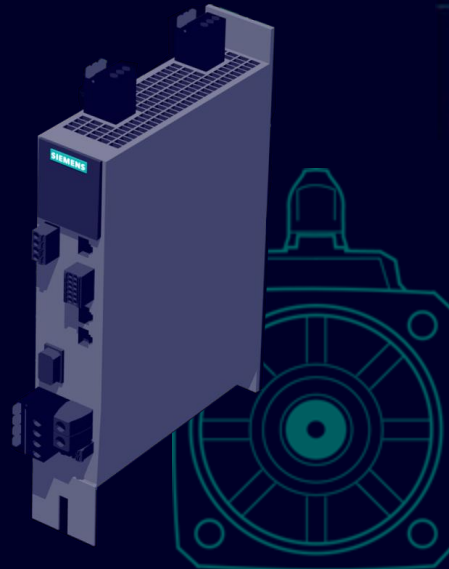
E-Starter
for Simatic
ET 200SP

NEW

Simatic ET 200SP e-Starter
- 3x smaller footrprint
- Up to 1000x faster
- No wear
- Based on silicon carbide

Intelligent Link Module
- Data transparency down to field level
- Integrated into TIA

**Next generation drives –
entry to premium class**
Sinamics S200/210 / Sinamics G220

SIEMENS

Field and Control –
Completing the comprehensive Digital Twin of the machine

**Digital Twin
of Drives**
DriveSim Engineer

**Next generation drives –
entry to premium class**
Sinamics S200/210 / Sinamics G220

NEW

SIEMENS

Field and Control –
Completing the comprehensive Digital Twin of the machine
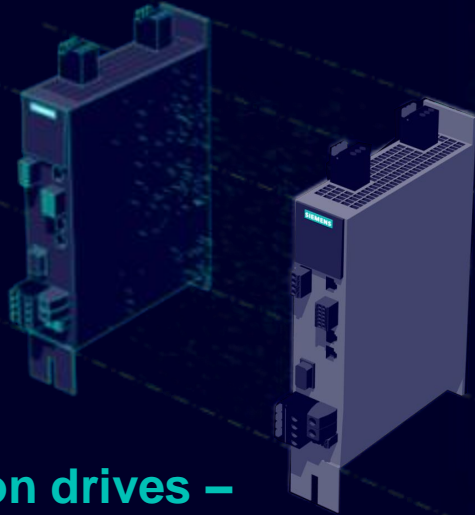
**Digital Twin
of Drives**
DriveSim Engineer

**Digital Twin
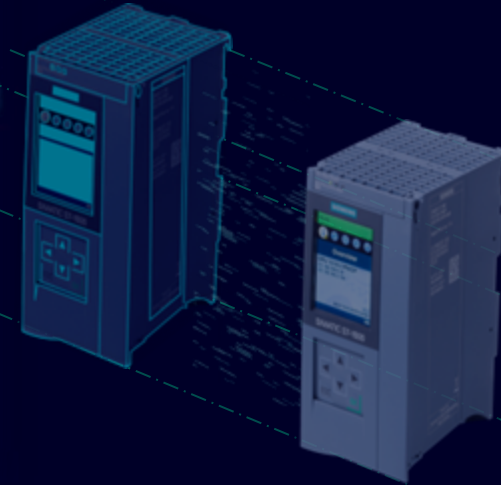of PLC**
PLCSIM Advanced

NEW

Up to
50%
less unproductive
testing

**Next generation drives –
entry to premium class**
Sinamics S200/210 / Sinamics G220
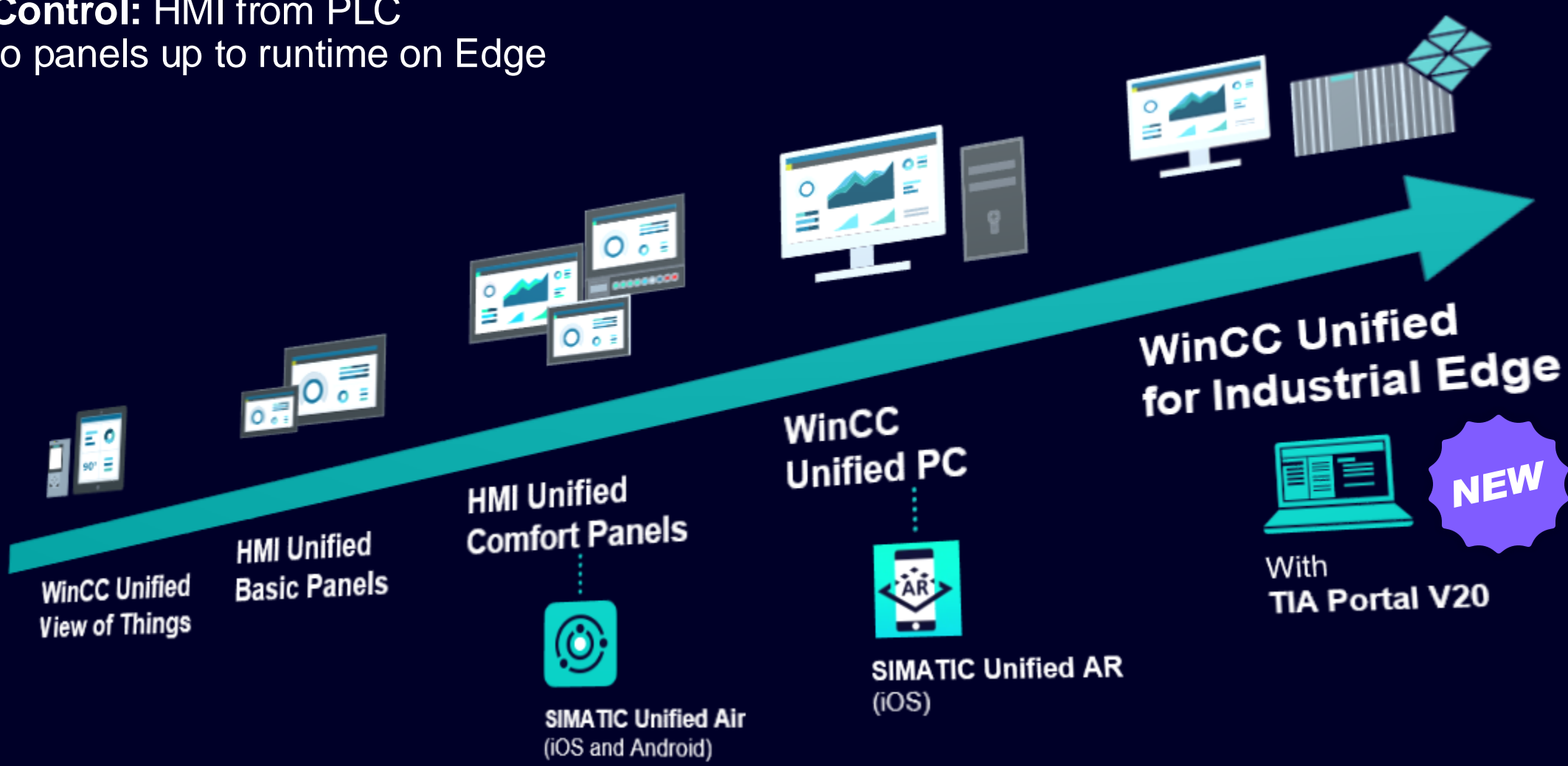
PLC
Simatic S7-1500

with TIA Portal V20

SIEMENS

Control – Simatic PLCs across the entire spectrum from basic to high-end applications and from hardware-based to software-defined

Hardware-Defined Automation

Software-Defined Automation on Edge

Hardware PLC
HW/SW bundle, with **TIA Portal V20**

Software Controller
PLC SW on Siemens IPC

Virtual PLC (S7-1500V)
PLC in container on Edge

Next generation of Simatic S7-1200:

>200%

performance and enhanced **motion**

Simatic S7-1500**:**

>200%

higher performance and TÜV-certified cybersecurity

One of the fastest Simatic PLCs in the market – now with

even better motion functionalities

The most independent Simatic PLC –

with safety, on Siemens Xcelerator

NEW

NEW

NEW

NEW

SIEMENS

Control: HMI from PLC to panels up to runtime on Edge

WinCC Unified View of Things

HMI Unified Basic Panels

HMI Unified Comfort Panels

SIMATIC Unified Air (iOS and Android)

WinCC Unified PC

SIMATIC Unified AR (iOS)

WinCC Unified for Industrial Edge

NEW

With TIA Portal V20

Scalability – redundancy – seamless data exchange with IT – open interfaces

SIEMENS

Control: next-generation IT/OT connectivity and cybersecurity for OT

5G

Wireless Connectivity

Industrial networks

Industrial 5G

Basic data transfer

Industrial WLAN (Wi-Fi 6)

Battery-powered RTUs

Sinec Security Guard

NEW

Cybersecurity for OT assets

SIEMENS

Operation: Industrial Edge best-in-class for
open digital platforms for industrial edge management

Competence

Strong   Leading-Edge   Best-in-class

Siemens

Market Strength
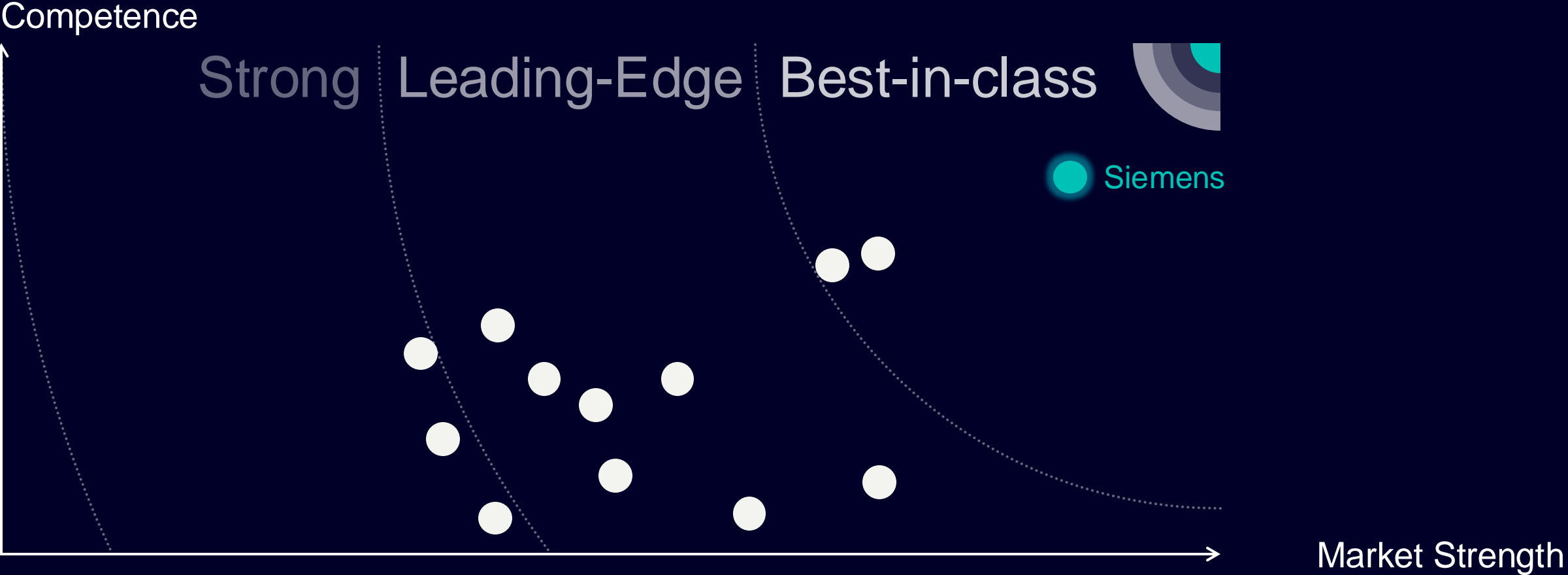
SIEMENS

Siemens augments automation with AI over all levels of applications and know-how

Your AI know-how

Scale:
Bring your own AI model and deploy, operate, manage and scale with little effort

Level up:
Complex use cases but no or little AI know-how

Democratize:
Use AI with no AI or expert know-how

Complexity of task and scale
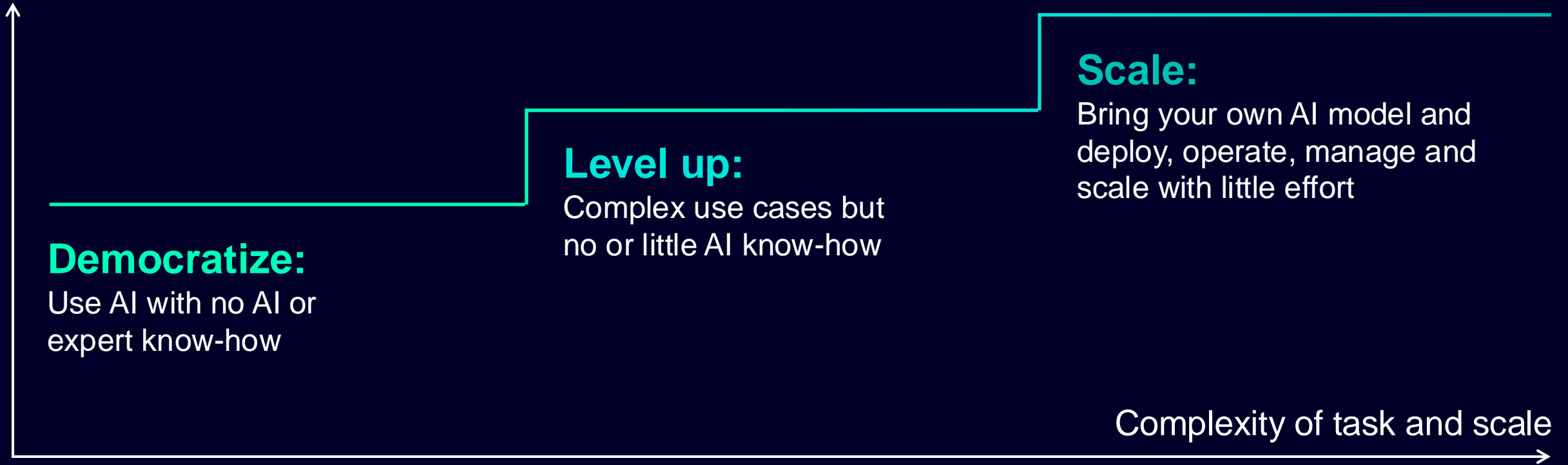
Together with strong partners
aws   BASLER the power of sight   inprO   Microsoft   M/T EC   NVIDIA   servicenow.

SIEMENS

Inspekto
50x faster deployment

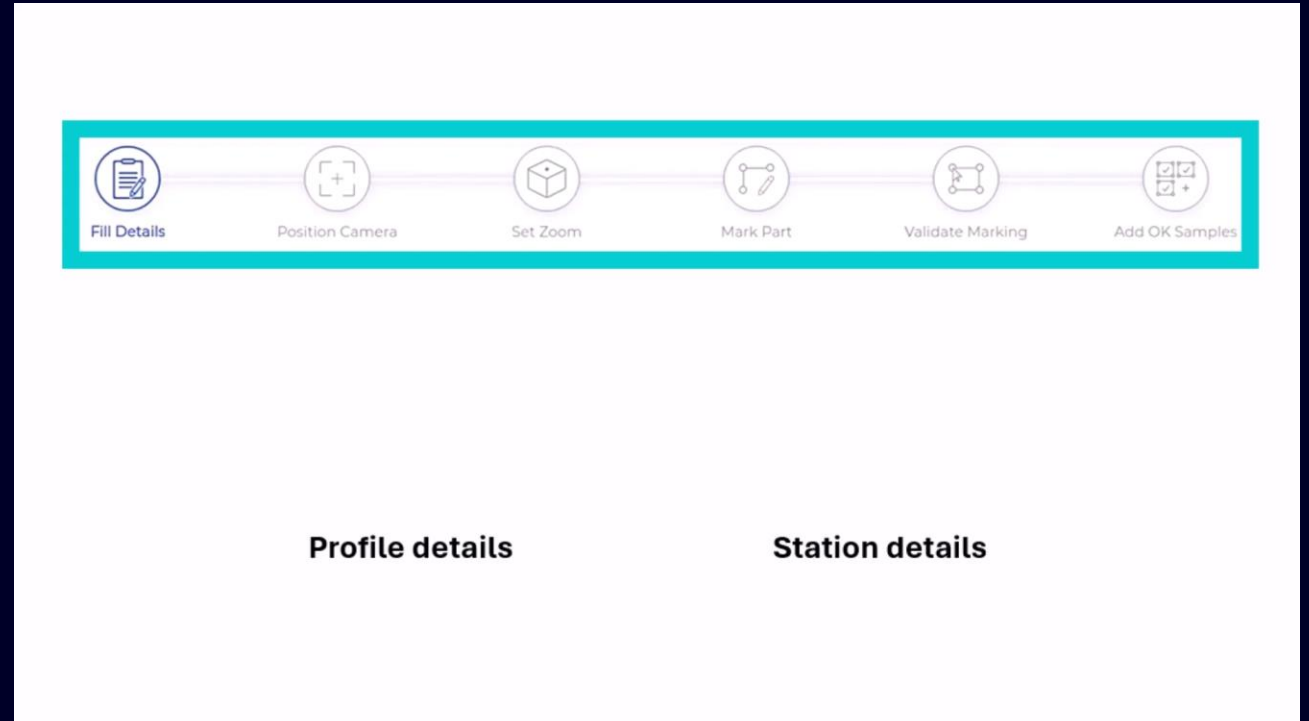→ First autonomous vision product

→ Easy to adapt

→ 10x lower Total Cost of Ownership

→ Connectivity to automation systems

Profile details   Station details

No know-how in AI or machine vision needed

SIEMENS

Industrial AI Suite
25x faster AI execution

→ Scaling and managing AI models easily across multiple locations

→ Most complete infrastructure for Machine Learning (ML) operations

→ Seamlessly integrates with leading cloud-based ML environments

aws Microsoft

Build
Plan · Re-train · Model · Package

Run
Deploy · Connect · Package · Infer · Monitor

Data Scientist

Automation Engineer
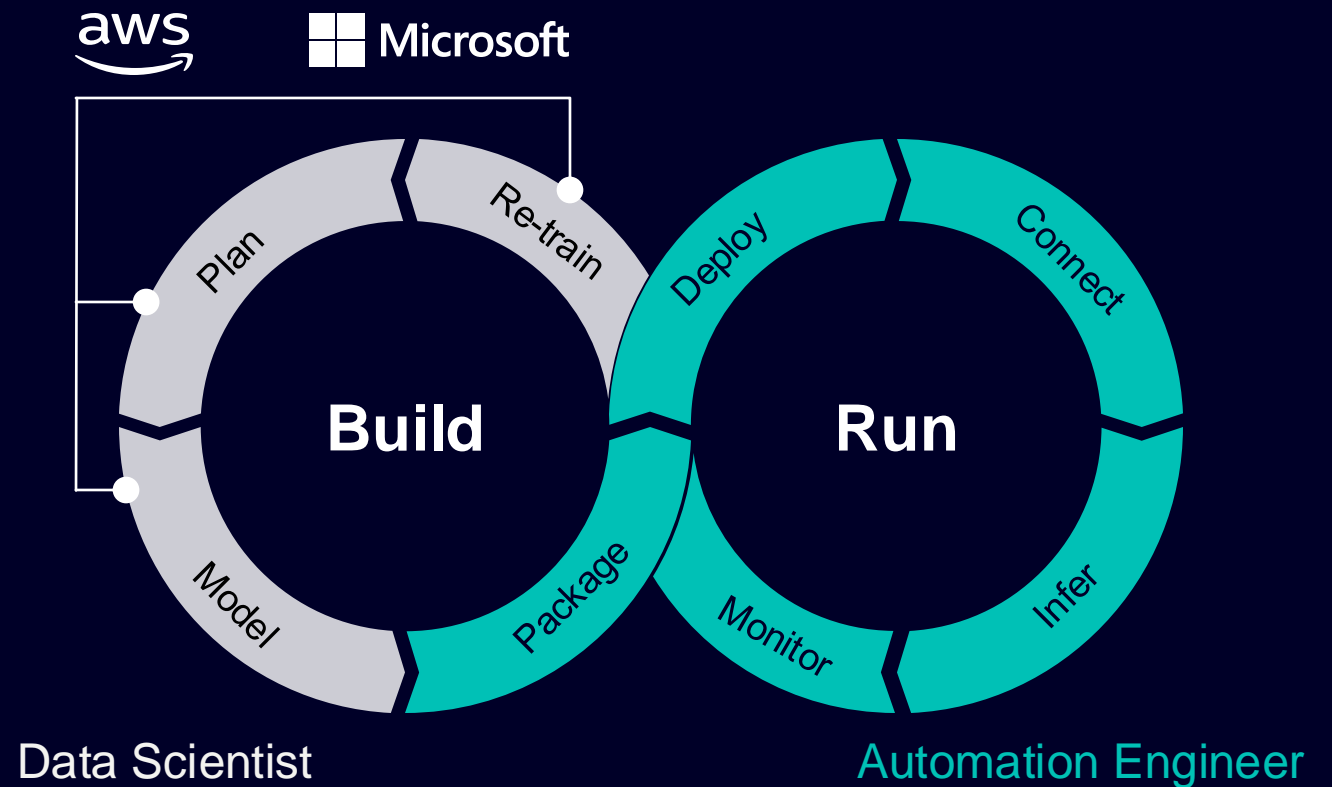
With IPC BX-59A and NVIDIA GPU

SIEMENS

Industrial Copilots will support humans along the industrial value chain
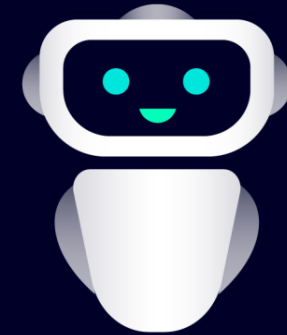
Design
Break new ground in creativity

Planning
Plan more efficiently than ever before

Engineering
Engineering without repetitive tasks

Operations
Transparency at your fingertips

Services
Know it all – before it happens

SIEMENS

Industrial Copilots will support humans along the industrial value chain

Design

Break new ground in creativity

Planning

Plan more efficiently than ever before

NEW

Engineering

Engineering without repetitive tasks

Available on Siemens Xcelerator Marketplace

NEW

Operations

Transparency at your fingertips

In the cloud and on-premises[1]

NEW

Services

Know it all – before it happens

Predictive maintenance at scale
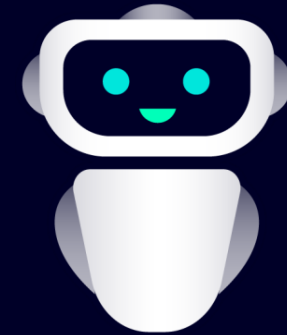
1 On-premises with **NVIDIA** GPU

SIEMENS

Supercharging automation
for the next steps into the future

Future

Performance

Starters

Fully electronic

Drives

Digital Drivetrain

Programmable Logic Controller

Software instead of wiring

Fully integrated automation

Consistent project planning, data storage and communication

Simulation

Digital Twin of entire value chain

IT/OT Integration

IT and software methods for adaptive production

Artificial Intelligence

Making AI industrial-grade

Ai

More autonomous production processes

Productivity Adaptability

Totally Integrated Automation

Siemens Xcelerator – Industrial Operations X

Intelligence

SIEMENS