Simply automate – innovations for a future-proof industry

SPS 2023 Press Conference Rainer Brehm, CEO Factory Automation at Siemens







23



Industry can now automate much more easily

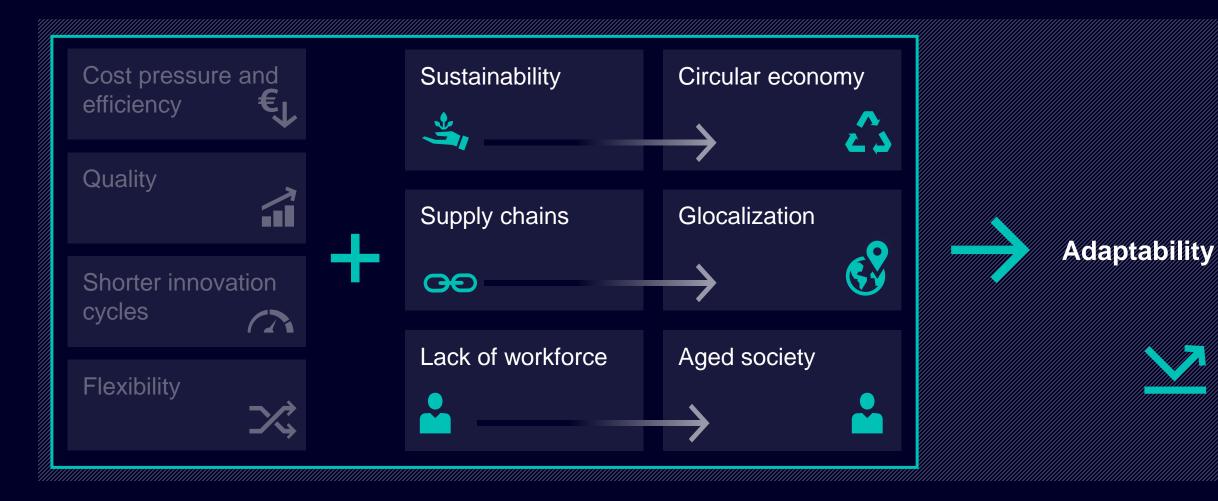
with Siemens

Siemens is driving a sustainable **Circular economy**

Siemens is making artificial intelligence Industrial-grade



Hannover Messe 2023: A resilient industry must be able to adapt its processes faster





Industry must now rigorously automate







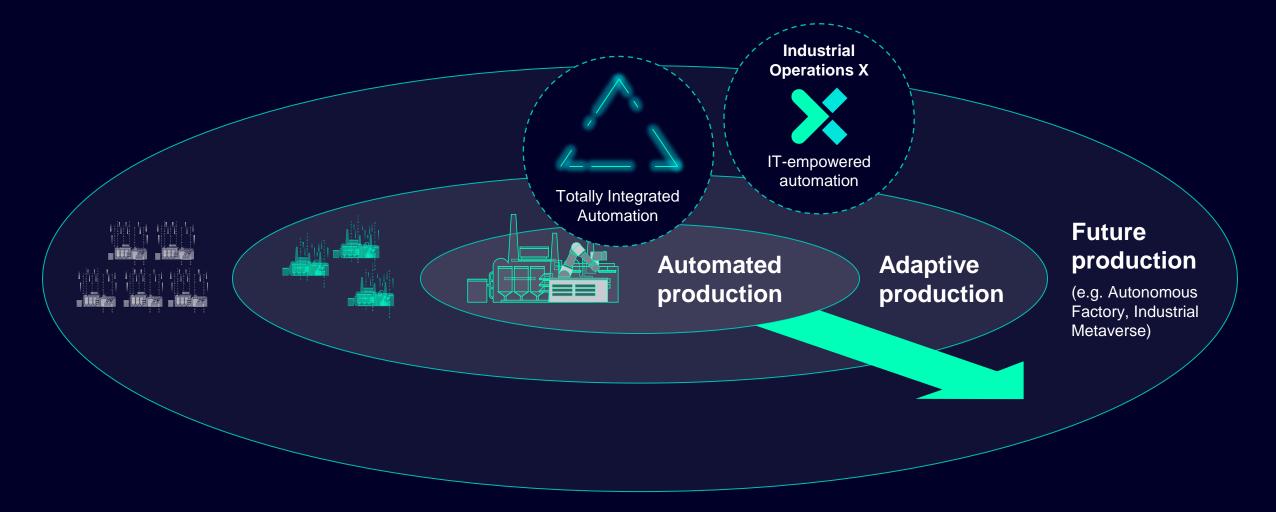


Necessary to achieve the goals of the Paris Accord. Source: <u>The Boston Consulting Group</u> | 2 43% of all companies surveyed. Source: <u>BCG, Flex Factory, WHU</u> |
Source: <u>Korn Ferry</u> | 4 -1% productivity/hour during 1st quarter of 2023 compared to same quarter of previous year. Source: <u>Institut für Arbeitsmarkt und Berufsforschung</u>



Future-proof investment

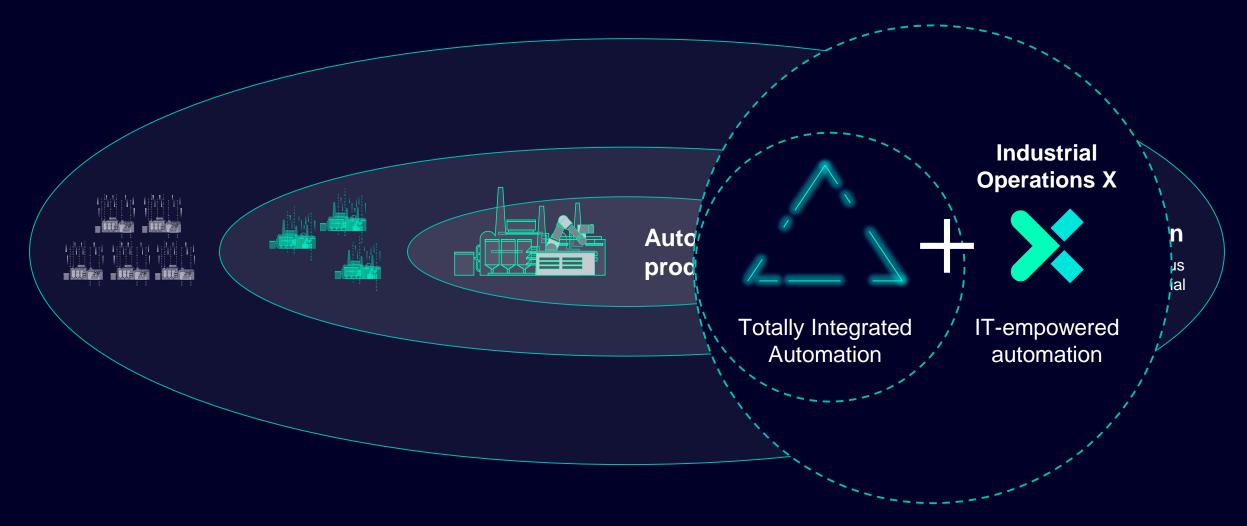
Totally Integrated Automation, enhanced by Industrial Operations X





Future-proof investment:

Totally Integrated Automation, enhanced by Industrial Operations X





Resource efficiency through the circular economy Sorting of plastic waste for recycling requires massive expansion

>60% of plastic waste in Germany is burned.

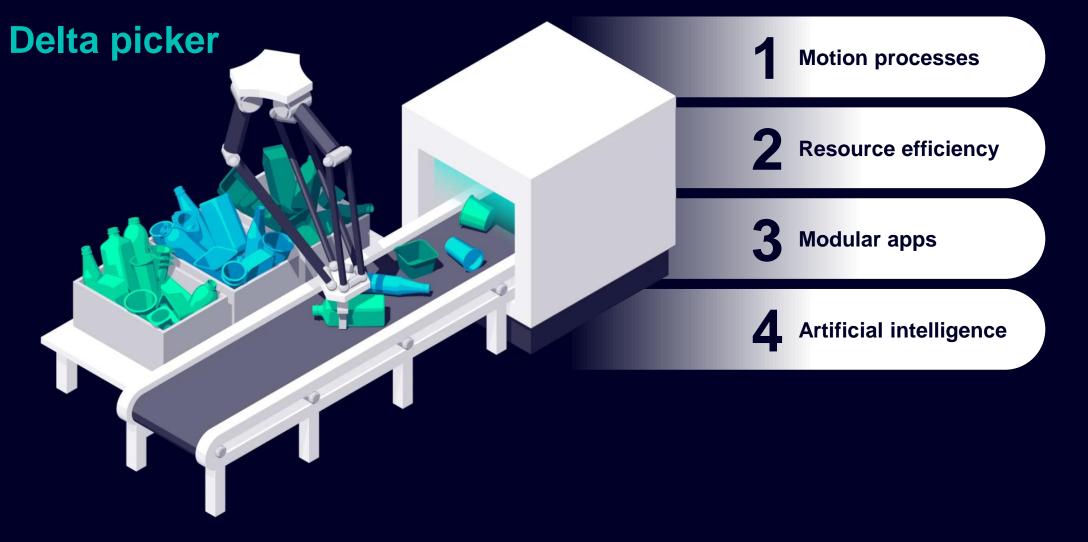


Source: Umweltbundesamt (2021) | Source of the film: https://vdrs.com/

Hard



Delta picker identifies and sorts at high speeds Highest demands on automation technology – easy to implement and use



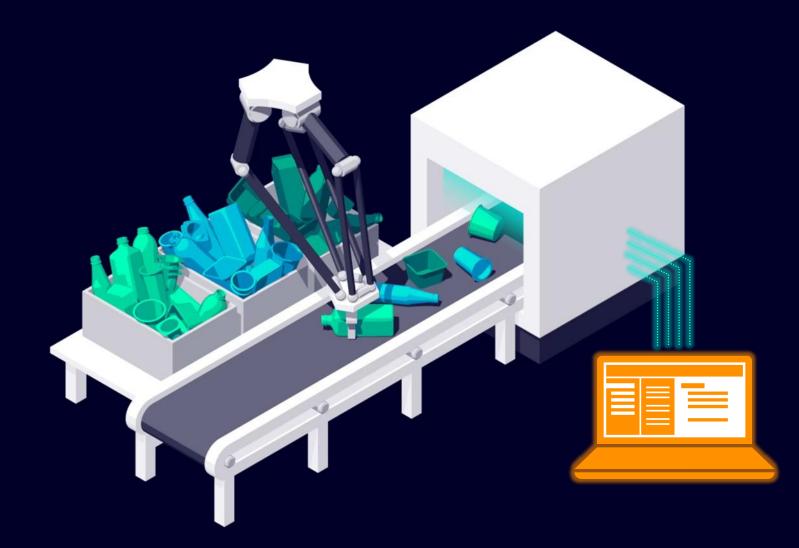


Motion processes



Engineering, control, and drives for motion processes easier than ever



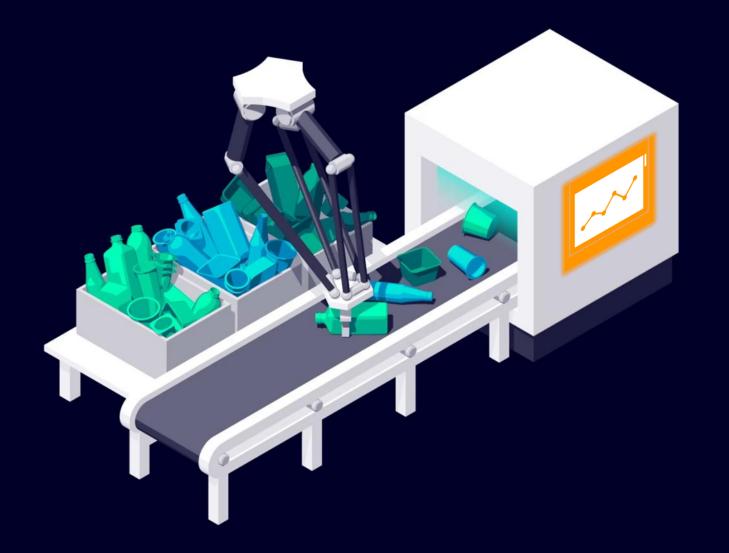


TIA Portal V19

All core motion functions from individual axes to complex kinematics Graphical user interfaces



Engineering, control, and drives for motion processes easier than ever

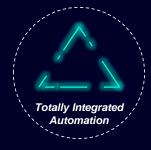




Simatic Motion Interpreter

Simple programming without specialized knowledge

Changes without intervening in the PLC program





Engineering, control, and drives for motion processes easier than ever



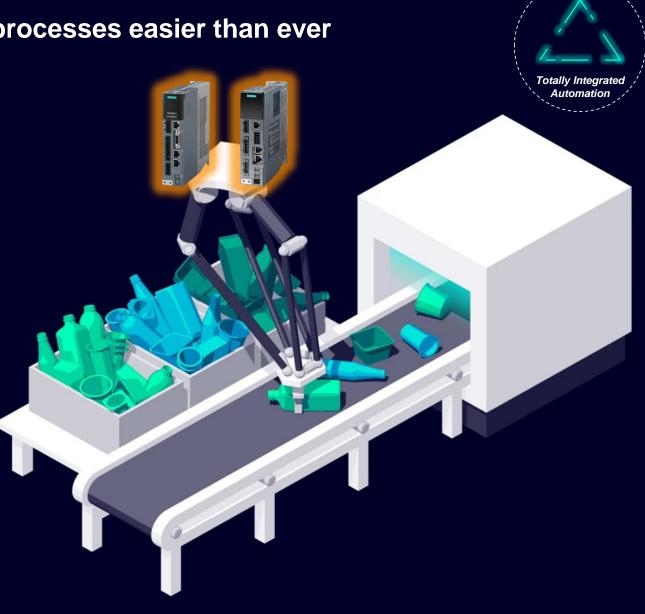
Sinamics S200 & S210

Sinamics S200:

Performance-optimized for standard servo drives Simple engineering via TIA Portal integration

Sinamics S210: Safety Integrated thanks to SIL3 safety functions

Virtual tests with a digital twin

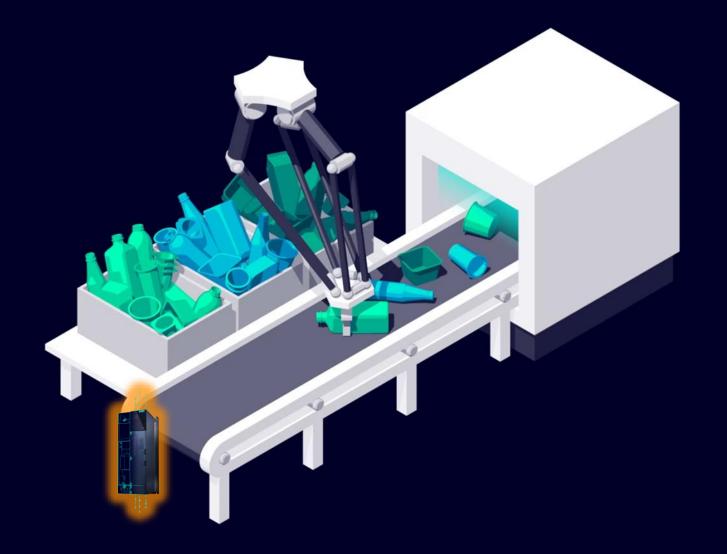




Resource efficiency



Greater resource efficiency in motion processes Produce more sustainably with Siemens





NEW Sinamics G220

Saves money and space: 95% less harmonic distortion

Virtual tests thanks to Digital Twin

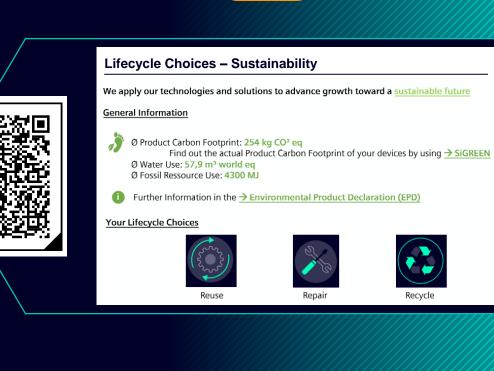
Connectivity to Edge and Cloud



Fulfill legal requirements more easily with Siemens On the path to the Digital Product Passport

NEW

ID Link with EPD data¹



Digital Product Information



Siemens in German and international initiatives



Digital Data Chain Konsortium

1) Environmental Product Declaration



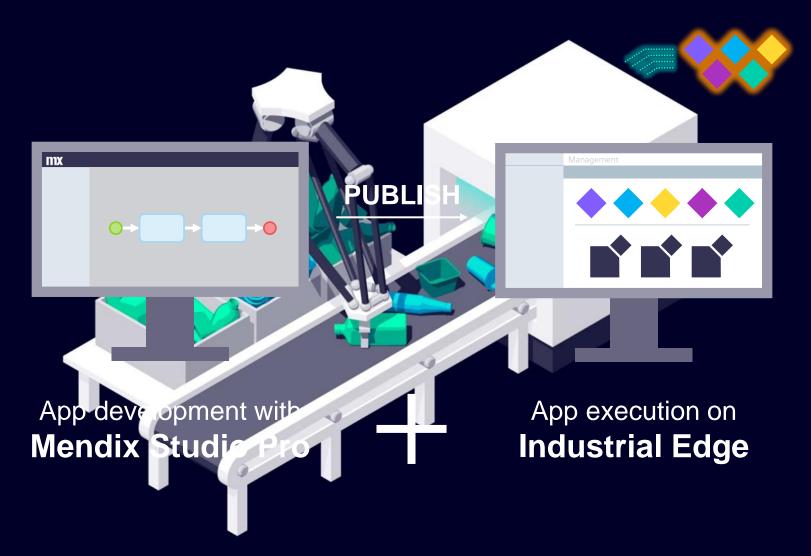
Industrial Operations X

IT-empowered automation

Modular apps



Faster create apps tailored for the OT environment Make or buy with Mendix and Industrial Edge





Mendix on Edge

Seamless integration from IT to OT Reusable modules for quick and easy app development



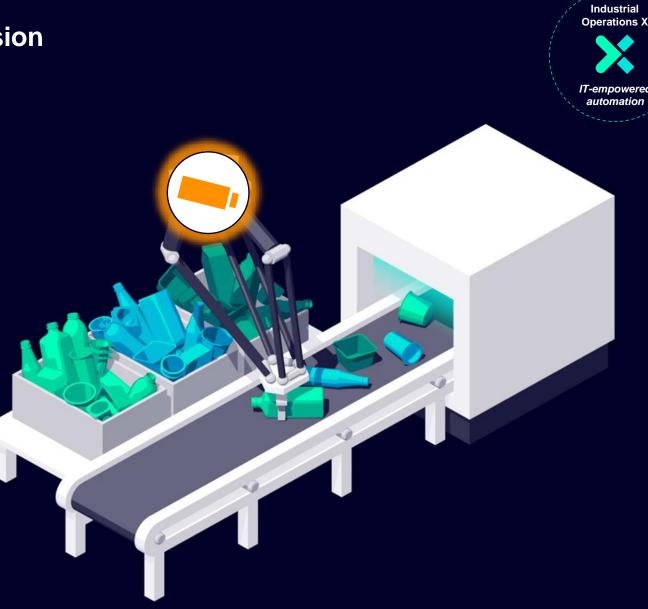
Quick and easy integration of machine vision

Partnership with Basler and MVTec

Integrate Basler cameras in Siemens hardware

Bring your own AI models to the shop floor

MVTec: end-to-end anomaly detection on Industrial Edge No additional stand-alone solutions in operation



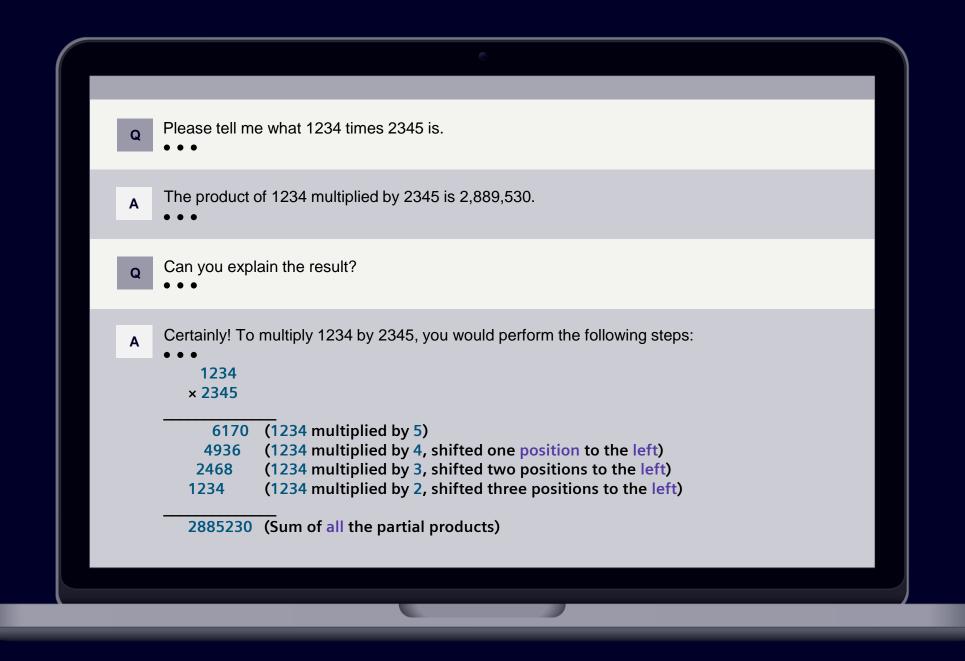


Artificial intelligence



Al Revolution





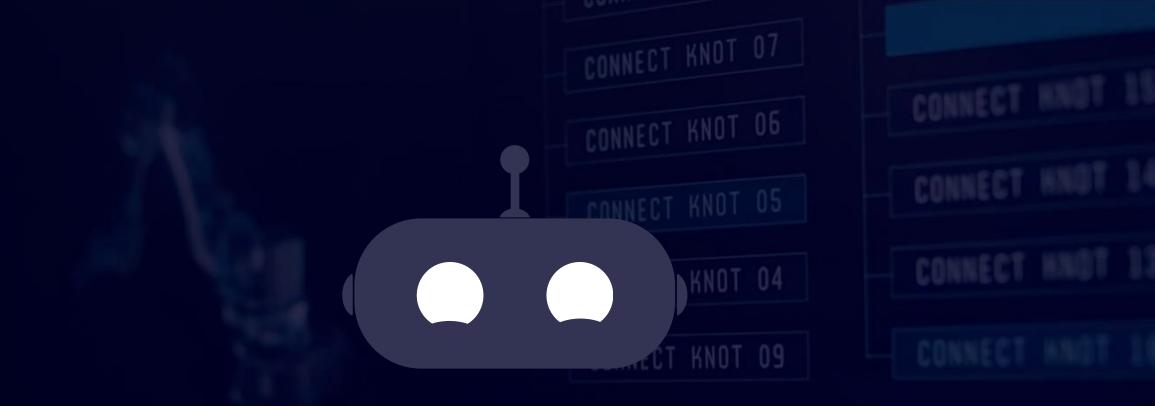


Challenges in Al



We make Al industrial-grade





I am your Industrial Copilot.



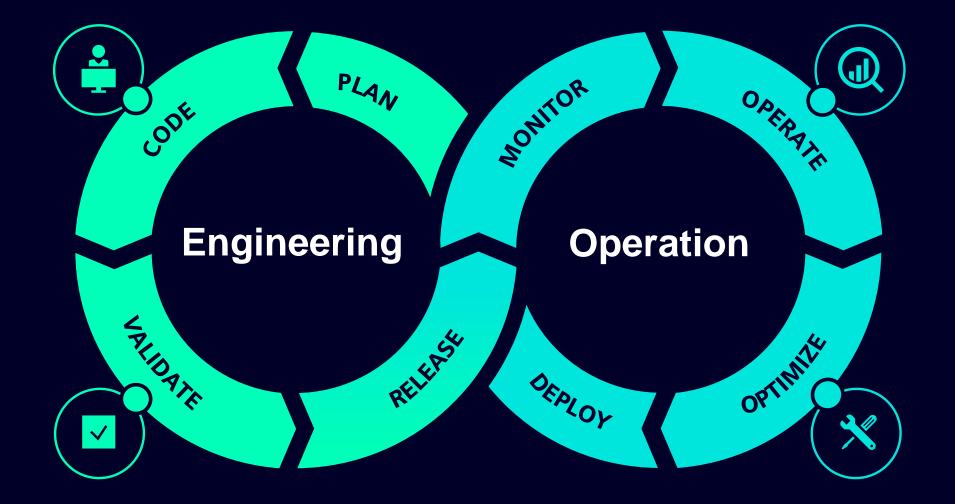
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//AI-Networ

SIEMENS

ly calculating

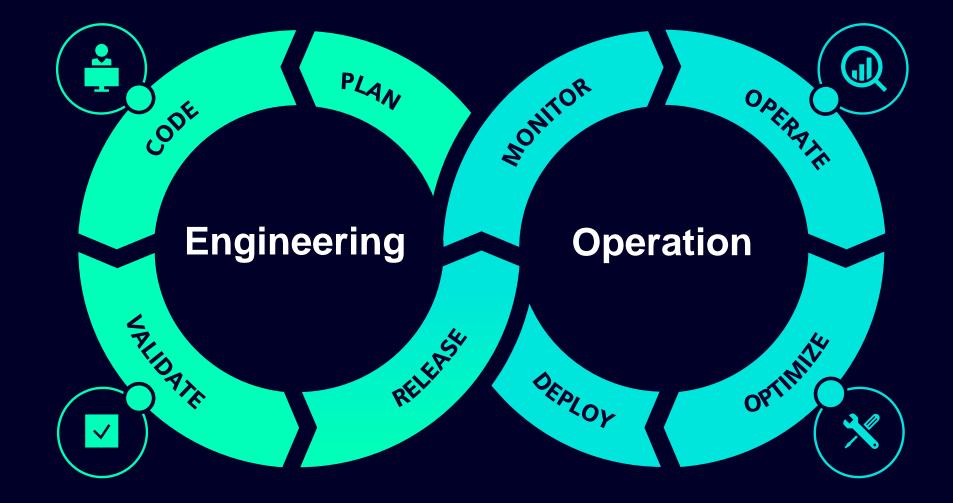




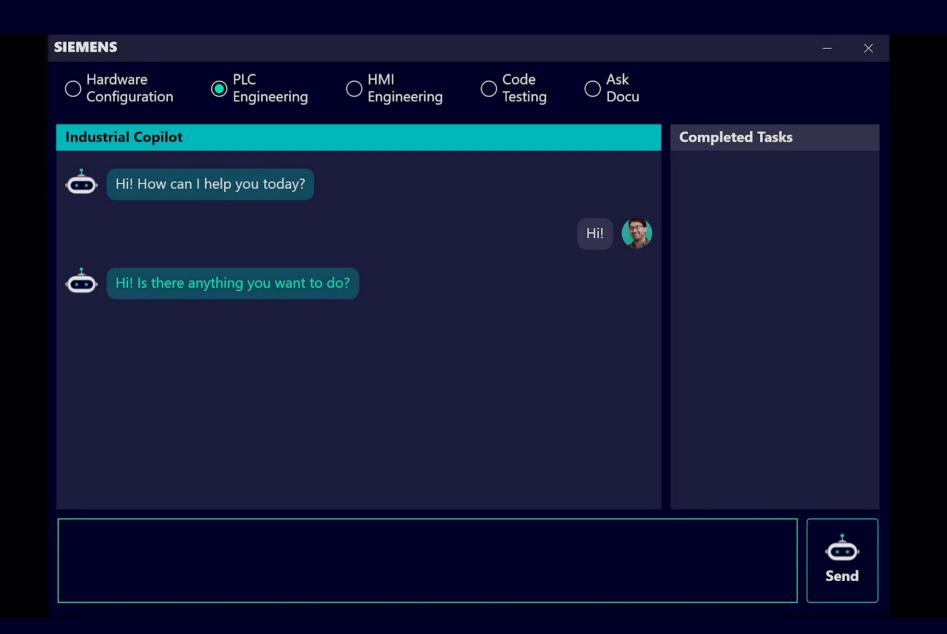




Siemens Industrial Copilot Code at the press of a button

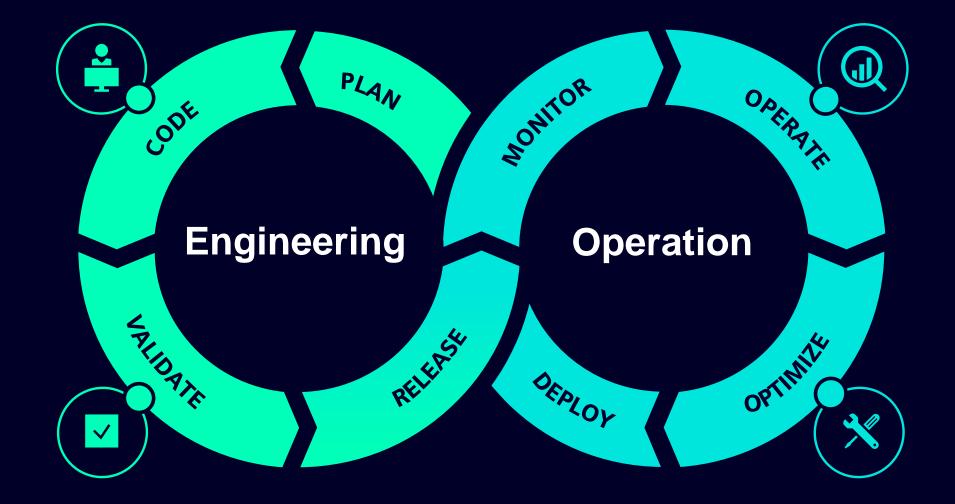








Siemens Industrial Copilot Supporting maintenance staff





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Configurati										
Dialogue										
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Siemens Industrial Copilot Giving automation experts superpowers





siemens.com/ press/sps23



Industry can now automate much more easily

with Siemens



Siemens is driving a sustainable **circular economy**



Siemens is making artificial intelligence

Industrial-grade

Simple motion integration

Advancing TIA and Industrial Operations X **Resource-efficient processes**

Fulfillment of legal requirements

Modular apps

Generative Al

