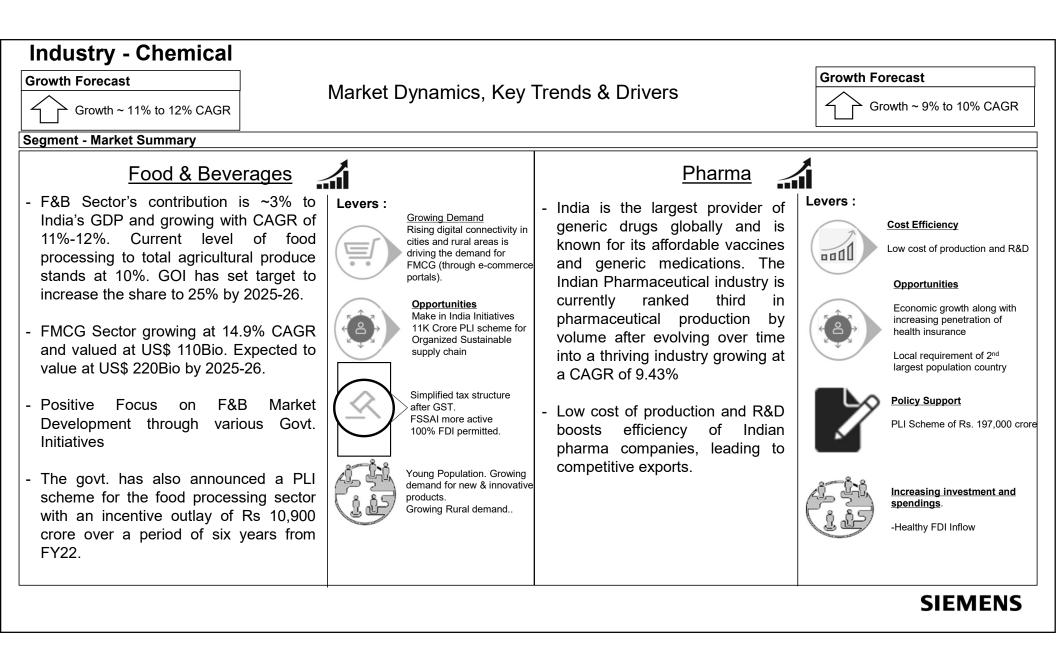
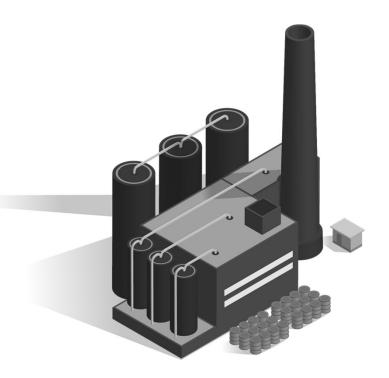
SIMATIC PCS 7 V9.1 Room for New Perspectives in Process Automation

SIEMEN

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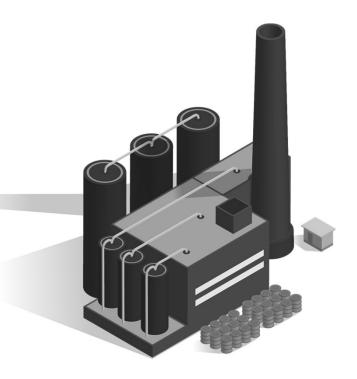
in the process industry?



in the process industry?



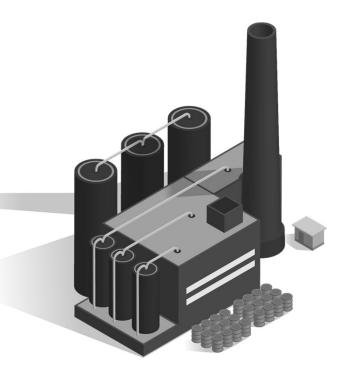
Fast commissioning



in the process industry?



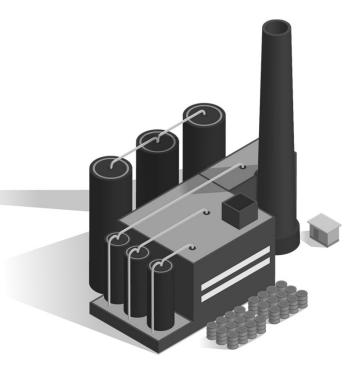
Uninterrupted operation



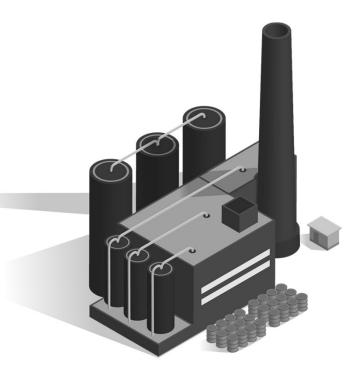
in the process industry?



Effective condition assessment



in the process industry?



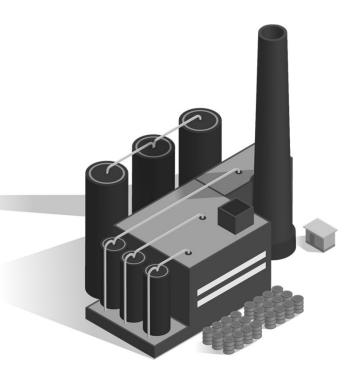


Investment protection

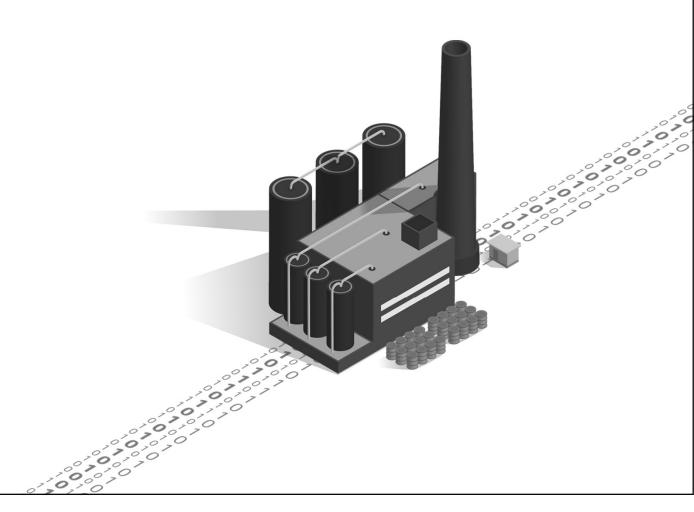
in the process industry?



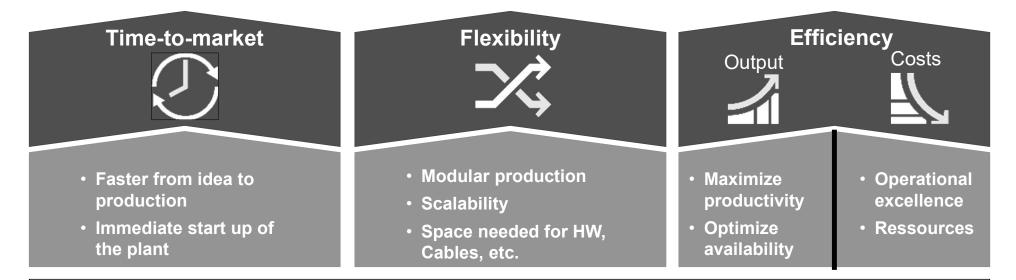
Flexibility



Digitalization is the answer!



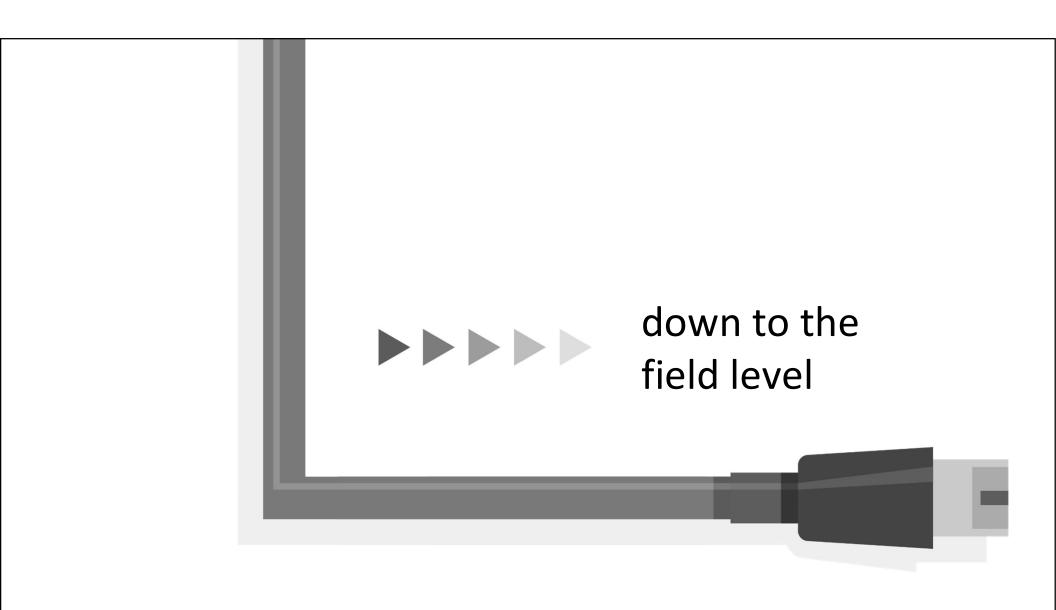


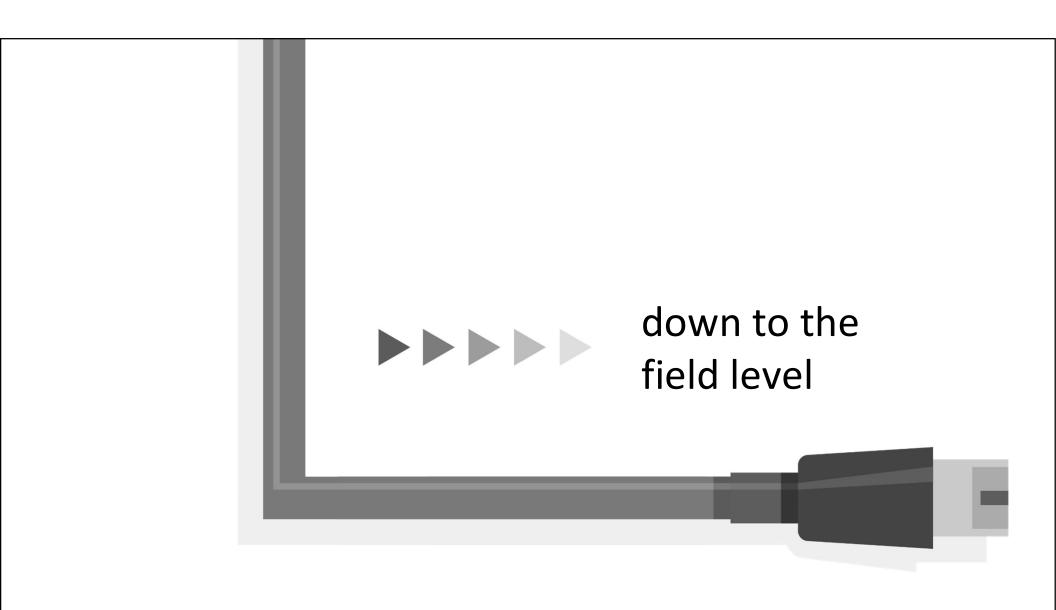


- Long plant lifecycle (> 30 years) with a highly fragmented data landscape
- Continuous, safe and reliable plant operations
- Brownfield projects (modernization or expansions) gain importance
- Lack of highly educated staff and "Digital Natives" as the next generation

PROFINET – the enabler

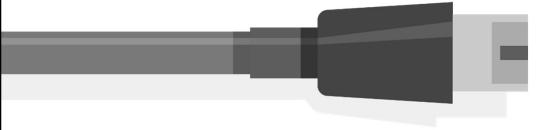
of digitalization





provides powerful communication

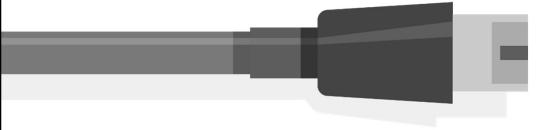




in real-time

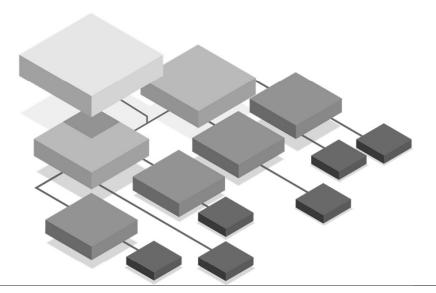
provides powerful communication

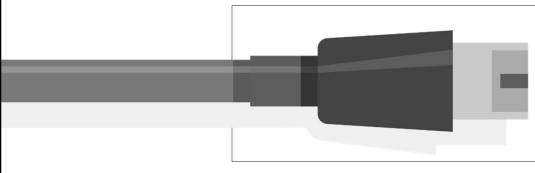




in real-time

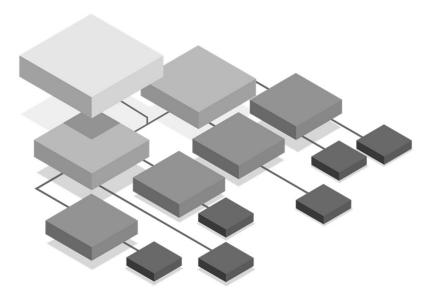
provides powerful communication





Flexible, high-performance, and scalable **network structures**

provides powerful communication



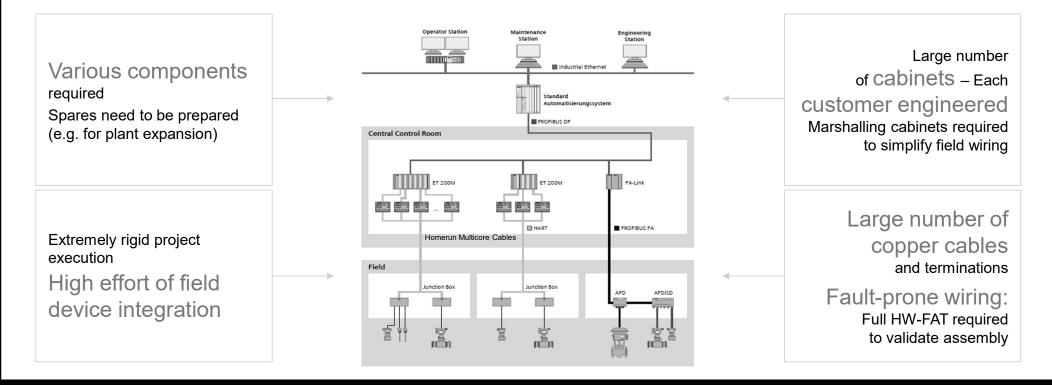


Flexible, high-performance, and scalable **network structures**

simatic PCS 7 V9.1 Room for new perspectives

in process automation

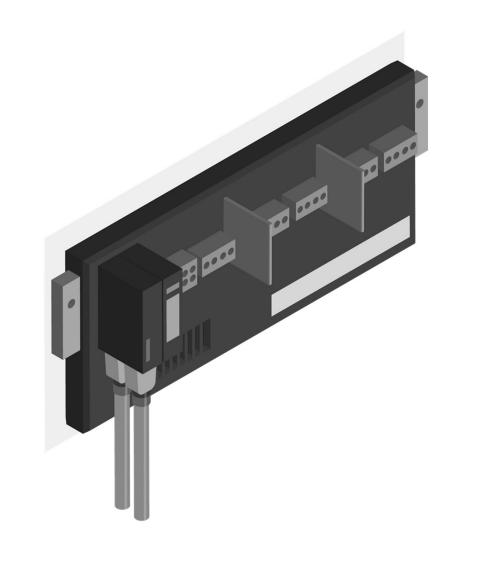
Overcoming the limitations of the traditional I/O approach



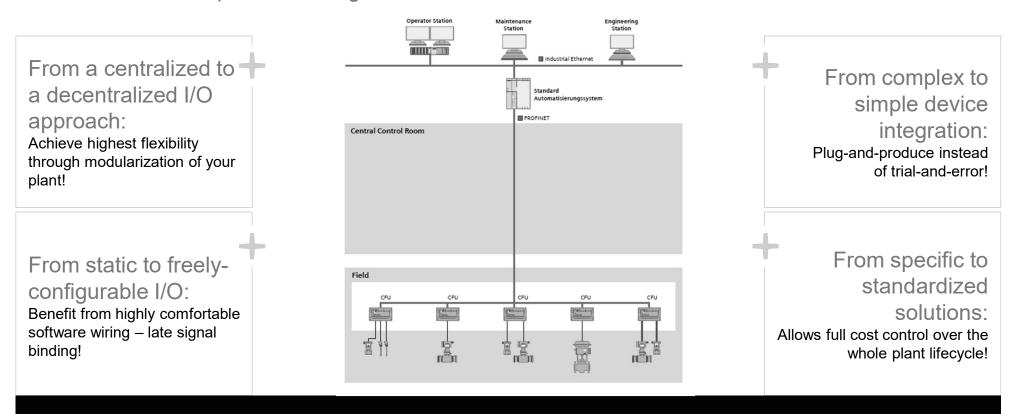
Goal: Reduce overall I/O system footprint, increase flexibility and usability

SIMATIC COMPACT FIELD UNIT

Decentralization Approach



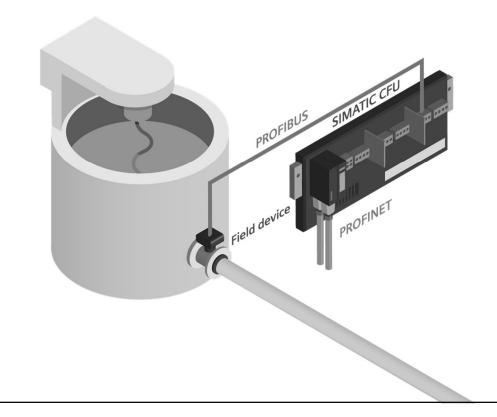
SIMATIC Compact Field Unit Our vision for a new plant I/O-design



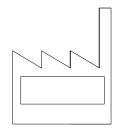
SIMATIC Compact Field Unit: Lay the cornerstone for digitalization at the field level

Decentralization

SIMATIC CFU



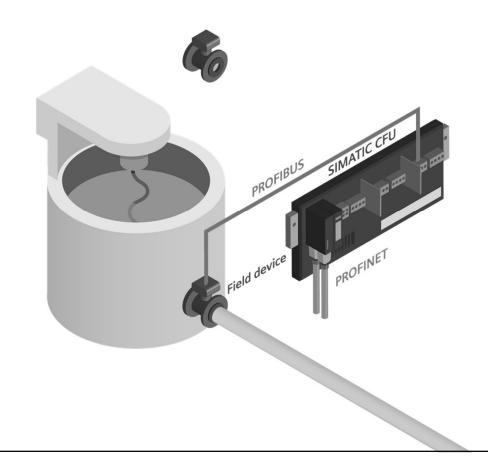




Fewer cables

Plant extension

Device integration SIMATIC CFU





Flowmeter X3-Z4500-XX

Benefits SIMATIC CFU



Flexibility

Time savings

Cost savings

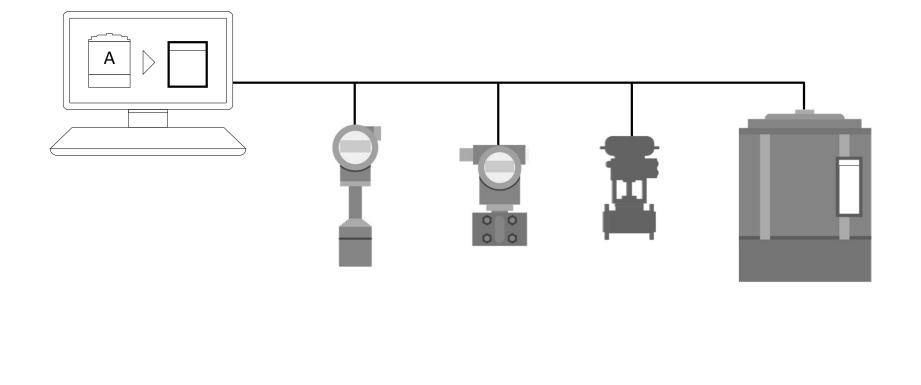
Asset Performance Management



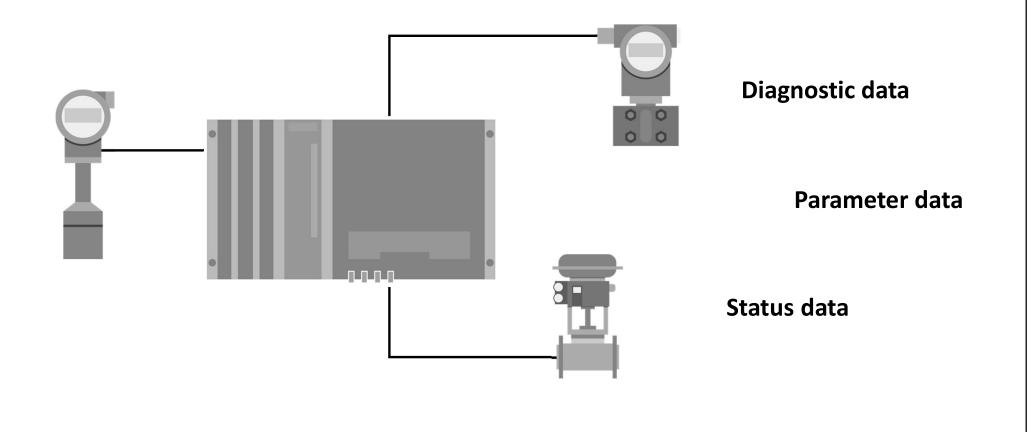
Effective condition assessment

Bestessine file of Elevit devices?

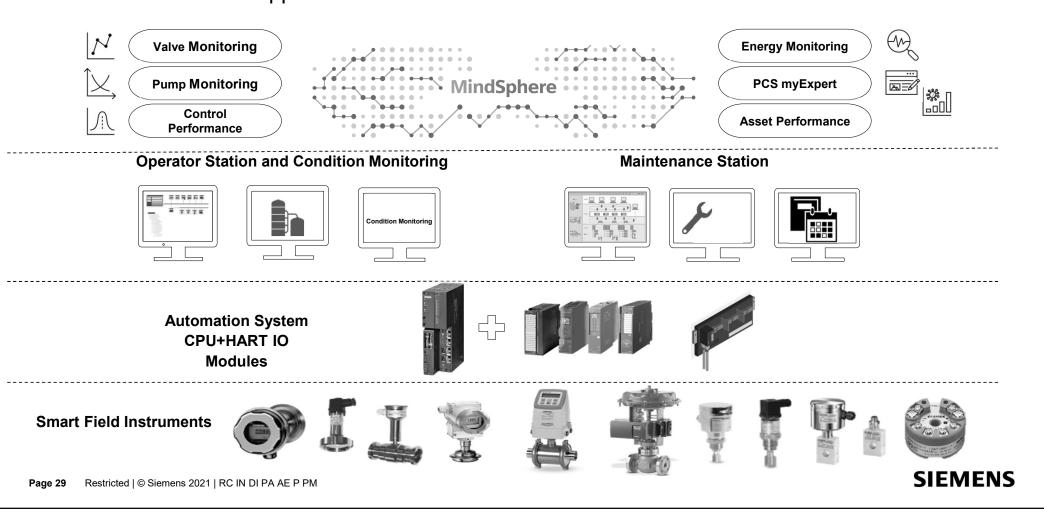
can cause massive disruptions



Intelligent Field Devices

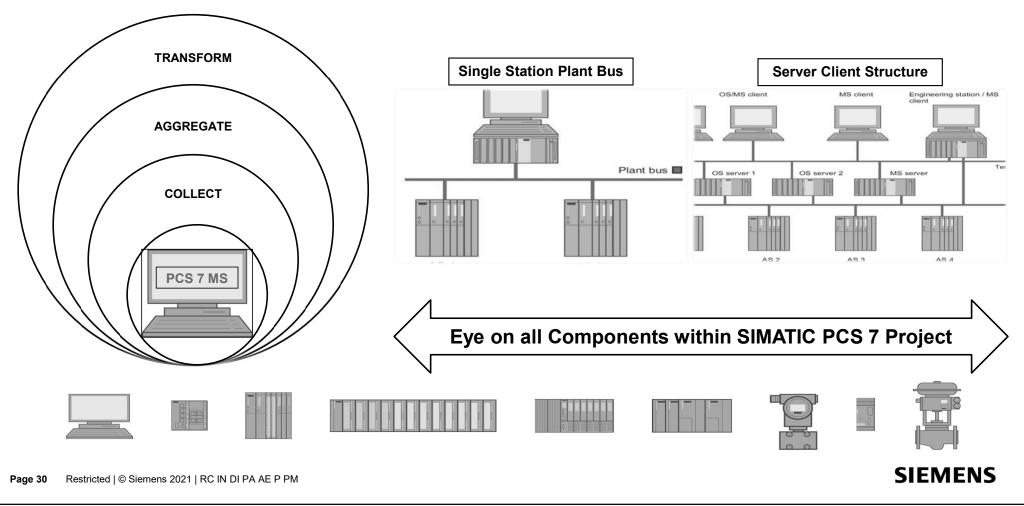






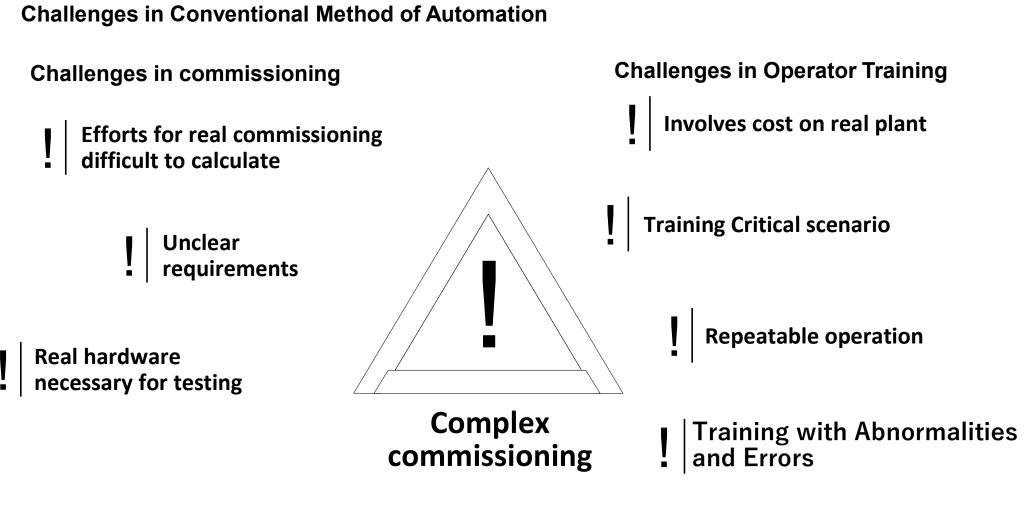
SIMATIC PCS 7 Maintenance Station

Diagnostic and Service for Components of the Distributed Control System



Digital Twin with SIMIT

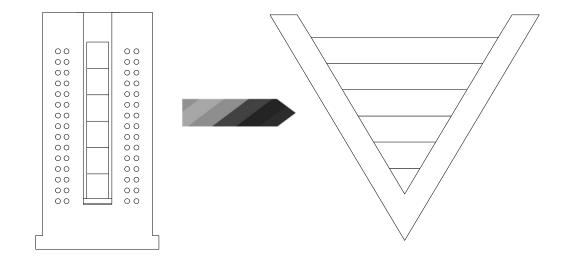
virtual commissioning – operator training system



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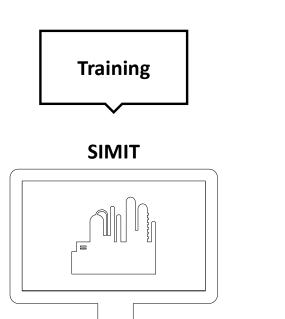
The solution: Real testing in virtual plant

Testing and optimization performed in a completely virtual environment



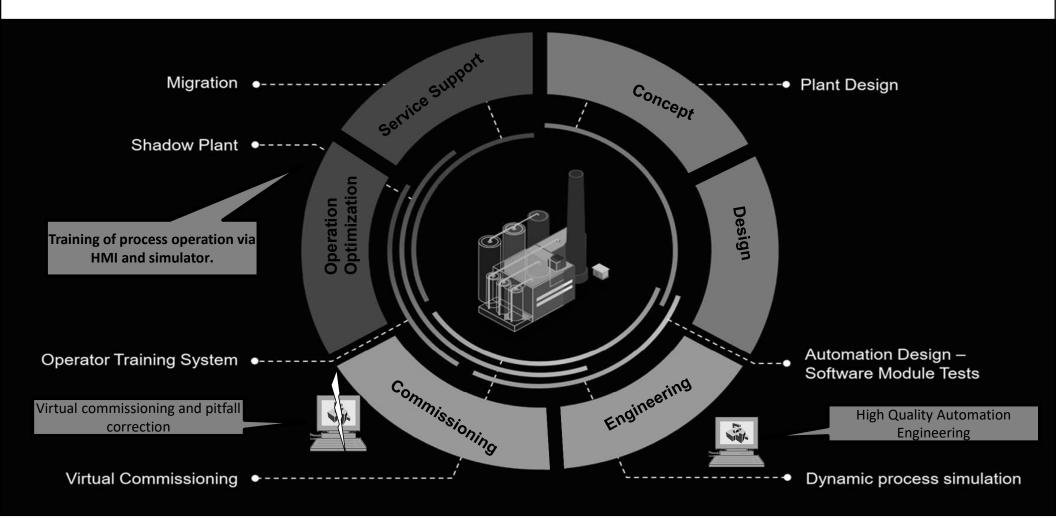
Train your operator

Effective operator training





Let's talk about challenges in perspective to Process Industry.



Clever combination: testing and training of automation projects

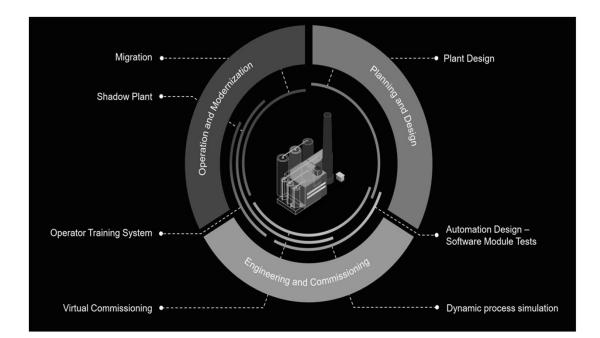
Your benefits with SIMIT



Clever combination: testing and training of automation projects

Advance use case with SIMULATION

- Life Cycle Management
- Combination of AI and Simulation
- Process Optimization and Maintenance
- Virtual Sensor concept.





I Thank You

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