

Audi EC4P: Manufacturing Reimagined at the Edge

Built on VMware Cloud Foundation, Audi's Edge Cloud for Production (EC4P) modernizes factory operations with a centralized, software defined edge platform for automation, AI and industrial control.



Key Statistics

~100 Robots synchronized at 1 ms cycle time - real time deterministic control

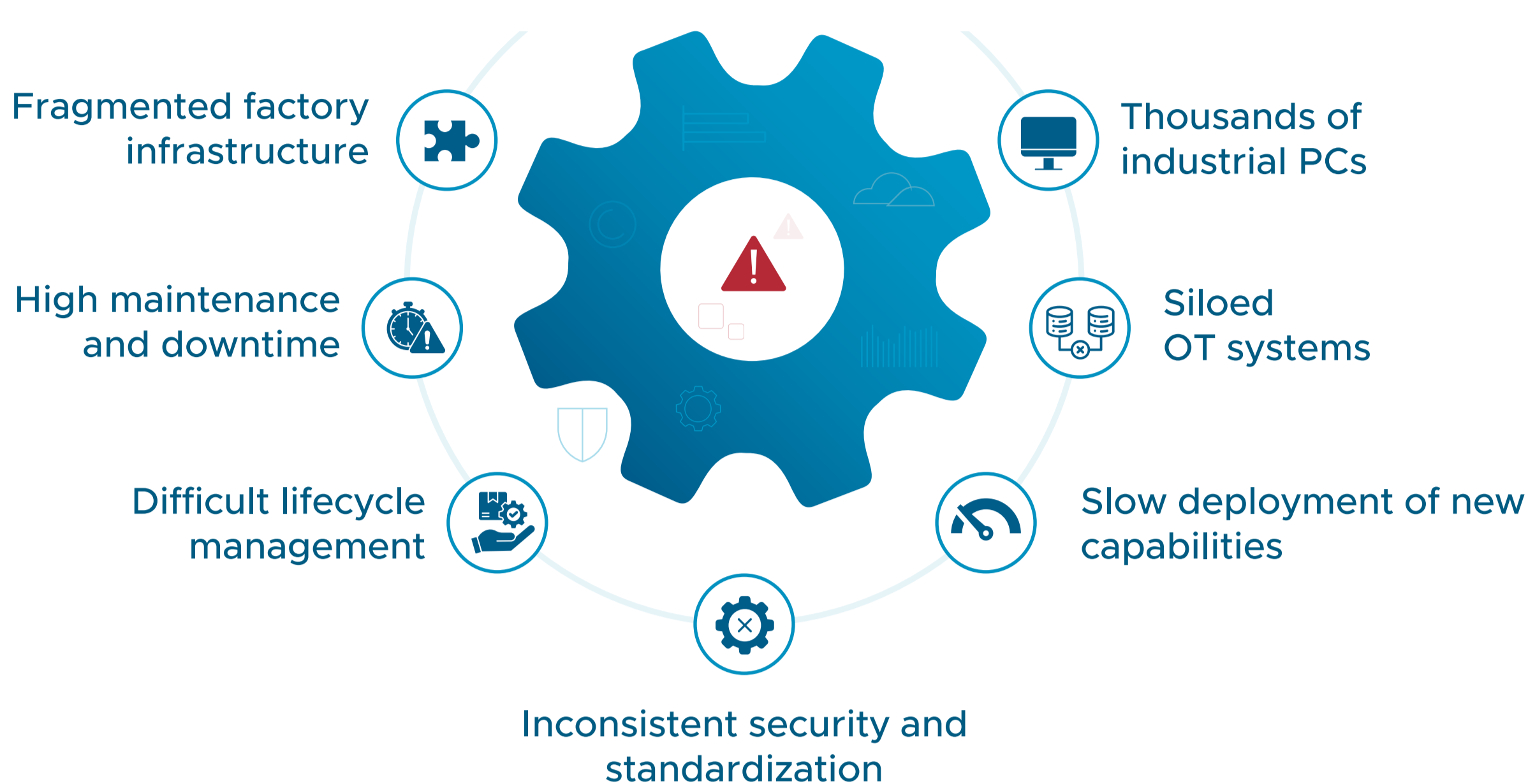
Thousands of industrial PCs eliminated

Several hundred vehicle bodies manufactured daily - a unique industry milestone

TÜV Certified independently verified for industrial safety and compliance

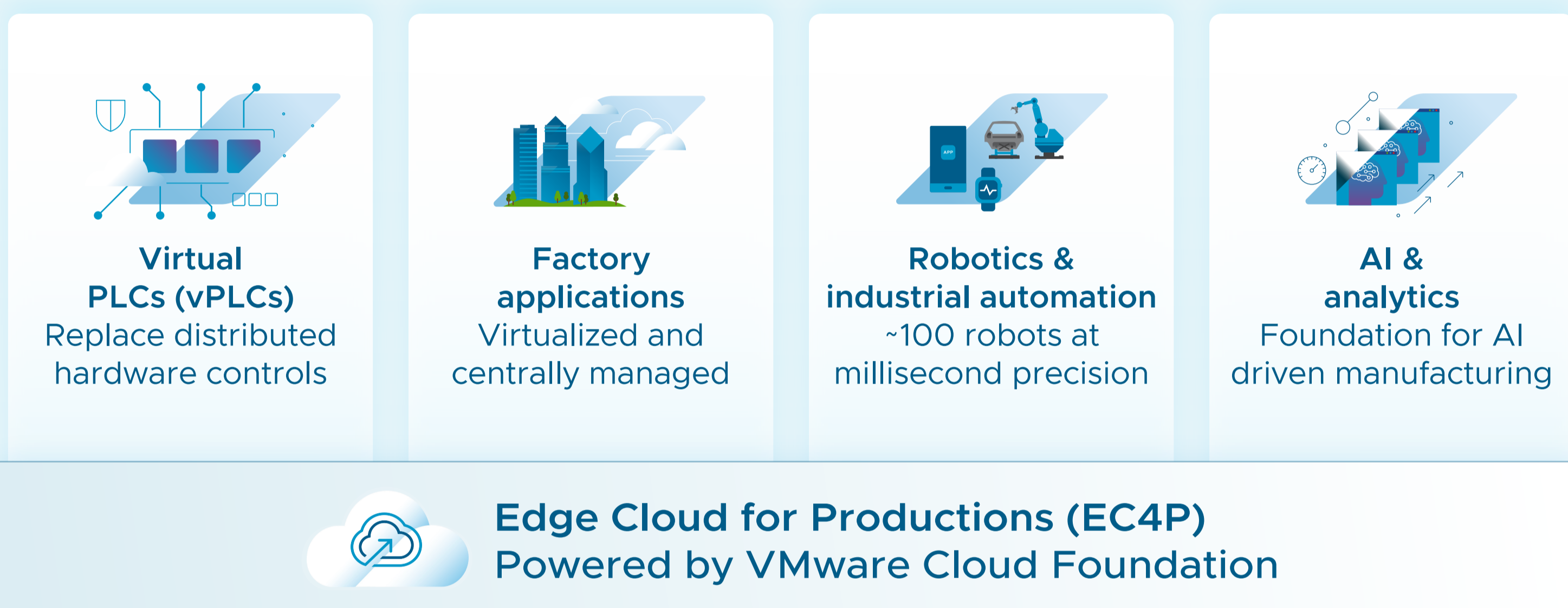
Challenges

Traditional Manufacturing Infrastructure Challenges



The Transformation

Edge Cloud for Production (EC4P)



From Complex & Fragmented to Unified & Intelligent

Traditional Factory IT	VCF EDGE With EC4P
Thousand of Industrial PC's	→ Centralized software defined platform
Manual site by site Operations	→ Centralized lifecycle management
Siloed IT infrastructure	→ Unified IT + OT Platform
Hardware bound automation	→ Virtualized industrial control

Outcomes



Why This Matters?



Reduce Cost
Eliminate hardware sprawl and reduce operational overhead.



Increase Agility
Deploy new factory applications and automation faster.



Enable AI Innovation
Create the foundation for AI-driven manufacturing and automation.



Scale Operations
Operate distributed manufacturing sites with a consistent cloud operating model.



Improve Resilience
Deliver highly available operations for mission-critical OT environments.

Key Takeaways

EC4P demonstrates that VCF Edge can run real-time industrial automation workloads at production scale while enabling centralized cloud-like operations across manufacturing environments

Operate factories with the simplicity of the cloud at the edge
A unified platform for automation, AI, and edge operations

To Learn more visit [VMware Cloud Foundation Edge](#)

[Download the Full ARC Advisory Group White Paper](#)