IoT made Easy

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WHO IS PTC?

$1.14B software company, headquartered in Boston, MA

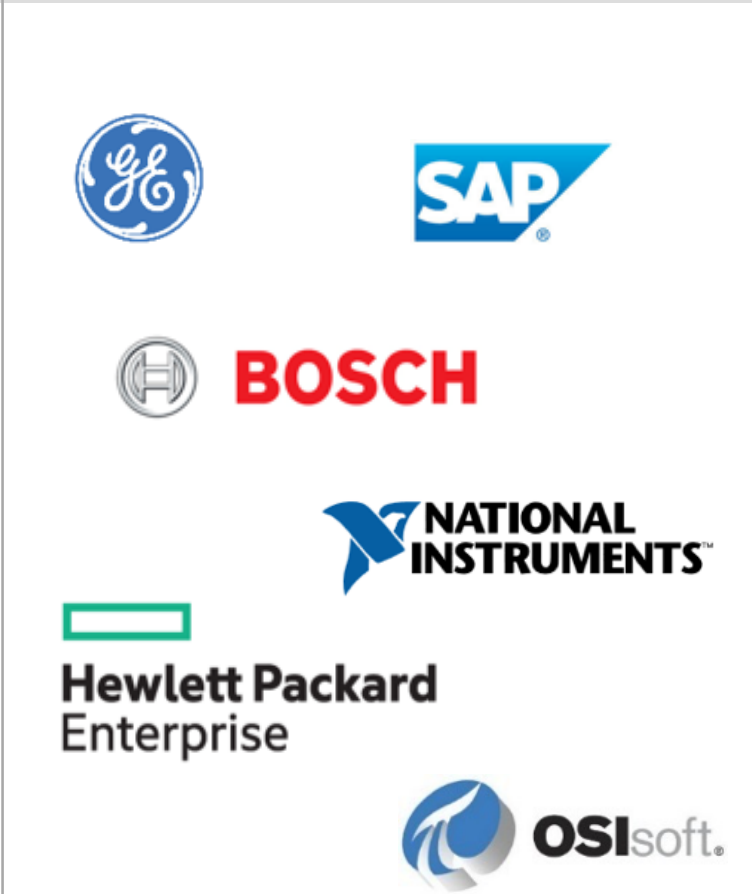6,000 employees

28,000 active customers

Pioneer in digital product engineering since the 1980s, today acknowledged leader for the IoT

Partner of the world's leading manufacturing companies since the 1990s

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PTC is uniquely positioned to help you succeed

Vision & Thought Leadership	Transformation Journeys	Partner Ecosystem

Example for Real Time Edge Monitoring

https://www.youtube.com/watch?v=WNUdD-rFUvQ

Industrial IoT Made Easy

Physical/Digital Orchestration

thingworx

Factory / Edge/OT Sources:
AWS IOT
Azure IOT
Predix
Axeda
SAP Cloud

Business/IT Systems

Computer Vision

TODAY

Desktop/Laptop

Mobile

AR/Wearables

VR/Wearables

TOMORROW

SOURCE (Data & Context)

CONTEXTUALIZE (Map Data to Context)

SYNTHESIZE

ORCHESTRATE

ENGAGE (Multi-Channel, In Context Role Based)

Controllers   Sensors
Historians

Edge/OT Environments

CAD & PLM
AEC & BIM
Digital Context

Analyze

Simulate

Digital Map

Model
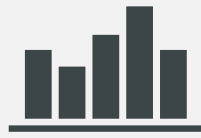
Digitize via scan, photo, or video

PTC ThingWorx – Complete IoT Platform Capabilities

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CONNECT
- Edge Connectivity
- Native and 3rd party device cloud support
- Protocol adapters
- Kepware industrial connectivity

ANALYZE
- Real-time pattern & anomaly detection
- Automated predictions
- Simulation and prescriptive analysis
- Rule & alerts

IMPLEMENT
- UI Builder for Web, Mobile, AR
- Visual Application Modeling
- Run-time Services
- Edge Intelligence

MANAGE
- Asset Provisioning & Management
- Software & Content Management
- Visual Alert & Rules Management

EXPERIENCE
- Compelling visualisation for web, mobile and AR
- Leverage rich 3D animation and IoT data for experience creation
- ThingMarks for unique AR experiences for each associated device

SCALE
- Enterprise-ready Deployment Architecture
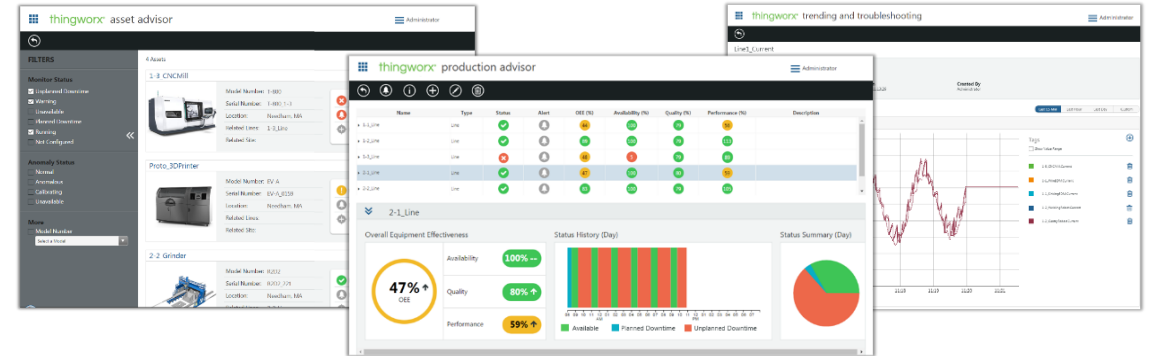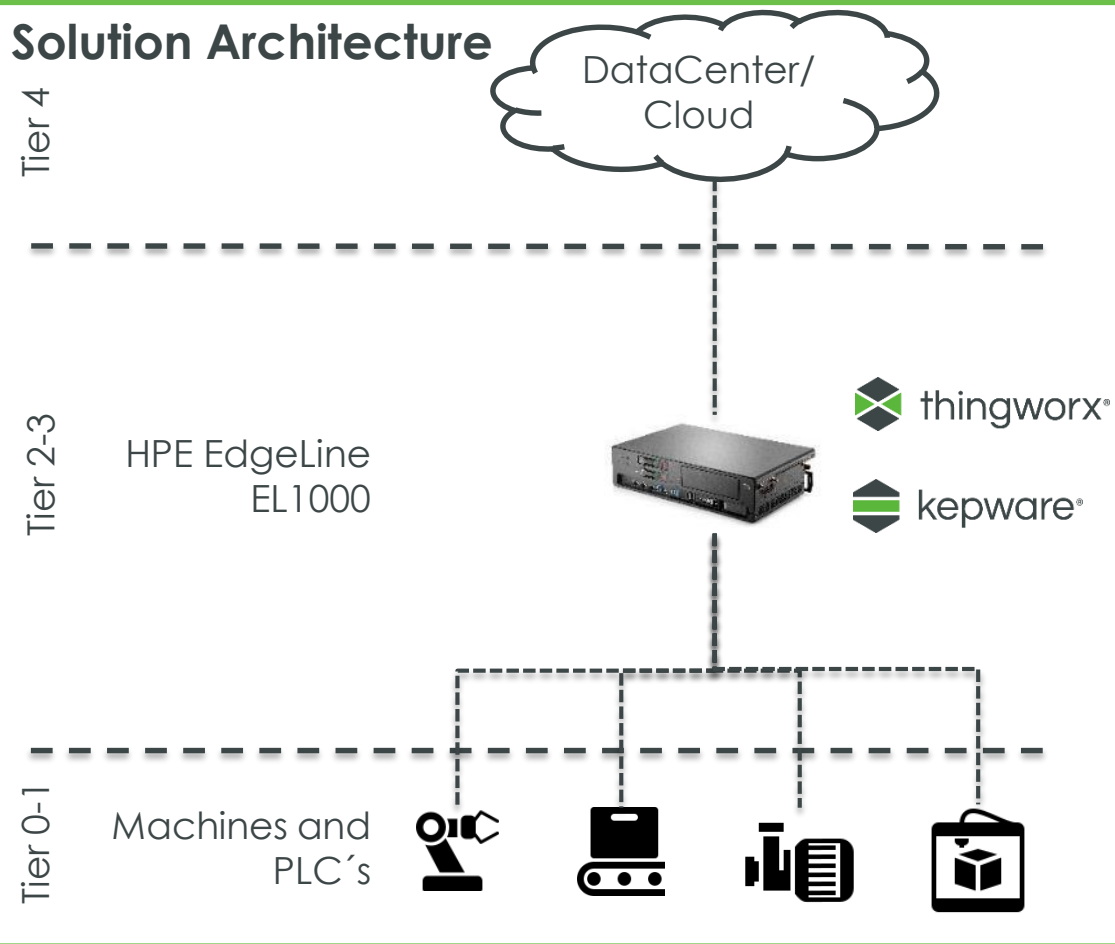- Millions of connected devices

SECURE
- Advanced Device Identity and Authentication
- Platform-Wide Identity Management

HPE / PTC Joint Starter Package for Condition Monitoring

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UseCase Description

Discovers and monitors all critical (incl. IT) components of one or several locations in a consolidated view. Ensure reliable, legally compliant operations for a large, fast-growing portfolio of heterogeneous / multi-vendor collection of things, while driving down cost of operations per asset.

Solution Architecture

Tier 4

DataCenter/ Cloud

Tier 2-3

HPE EdgeLine EL1000

thingworx

kepware

Tier 0-1

Machines and PLC´s

Solution Components

Hardware
- HPE Edgeline EL1000

Software
- PTC Thingworx
- PTC Kepware
- PTC Thingworx Apps for Manufacturing

Service
- Base Installation

Additional Starter Packs for Joint Usecases

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Condition Monitoring

Access and visualize industrial runtime parameters of a tool, machine, manufacturing or assembly process.

Predictive Maintenance

Collect and analyze industrial runtime parameters of a tool, machine, manufacturing or assembly process with the goal to identify recurring paterns preceding failures

Quality Management

Collect industrial runtime parameters and compare actual vs planned values to determine quality of the workpiece

Process Optimization

Optimize the production process across a heterogeneous machine infrastructure
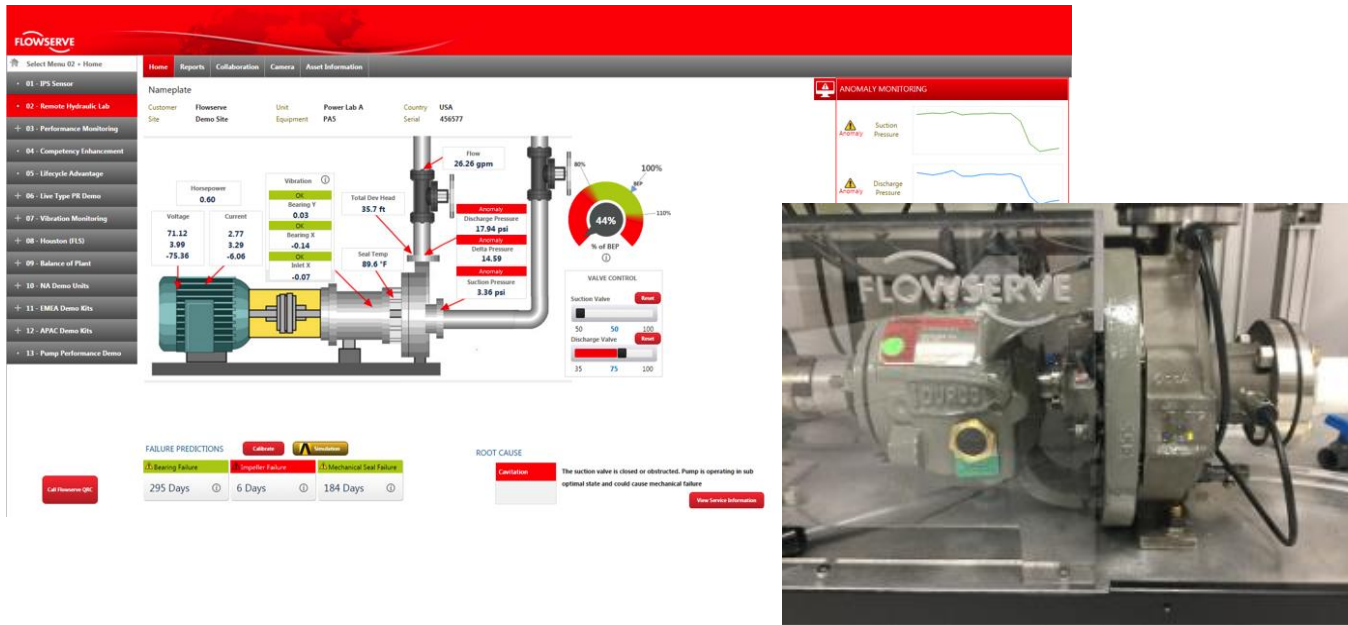
VISIT US AT THE FLOWSERVE BOOTH (Z)

CONTACT YOUR HPE OR PTC CONTACT

IoT leicht gemacht

Vielen Dank!

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