Industry X.0 – The emerging power of platforms

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INDUSTRY X.0 – Technology Context

- Mainframe
- Client-Server and PCs
- Web 1.0, E-Commerce
- Web 2.0, Cloud, Mobile
- Big Data, Analytics, Visualization
- IoT and Smart Machines
- Artificial Intelligence
- Quantum Computing

Source: Industry X.0: Realizing Digital Value in Industrial Sectors, 2017, Eric Schaeffer
Operational Efficiency

From Product to Service Outcomes Pull

New Product & Services

Outcome-based Economy

Autonomous Pull Economy

Immediate to near term

Longer term

INDUSTRY X.0 – Platform

- Cloud services
- Mobile development platforms
- API strategy and architecture - the digital glue
- Internet of Things - the catalyst for real-time business models
- Reusable software - the accelerator
- Containers - the independence and portability of software
INDUSTRY X.0
PI System

**Data Collection**
- Multiple AUT environments
- Several SCADA/PLC brands
- Huge number of smart-devices

**Third Party Solutions**
- Condition based maintenance
- Predictive maintenance
- Industry niche solutions

**Operational Intelligence**
- Standardized world representation
- Asset Tree / Asset monitoring
- KPIs
- Operational Excellence Reports

**Data Analytics**
- Enable data analytics for decision making
- Simulation / what it analysis

**PI Connectors & Interfaces**

**SMART MACHINES**

**SMART DEVICES**

**OSIsoft Cloud Services**

**OSIsoft Marketplace**

**MindSphere**

**ENTERPRISE ANALYTICS AND APPLICATIONS**

**OEM PI**

**Connected Services**

**Operational Excellence**

**Visualization**

**Sensors**

**Actuators**

**Intelligent Motor Control**

**Controllers**

**Terminals**

**Simulation / what it analysis**

**Condition based maintenance**

**Predictive maintenance**

**Industry niche solutions**

**Standardized world representation**

**Asset Tree / Asset monitoring**

**KPIs**

**Operational Excellence Reports**

**Multiple AUT environments**

**Several SCADA/PLC brands**

**Huge number of smart-devices**

**Enable data analytics for decision making**

**Simulation / what it analysis**
Thank You
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