AWS
5 U M M I T

How to leverage AWS for disruptive innovation on the factory shop-floor

Oliver Stollmann CEO, Actyx AG 18 May 2017



Factory shop-floors and *Industry 4.0*



Factory shop-floors are important



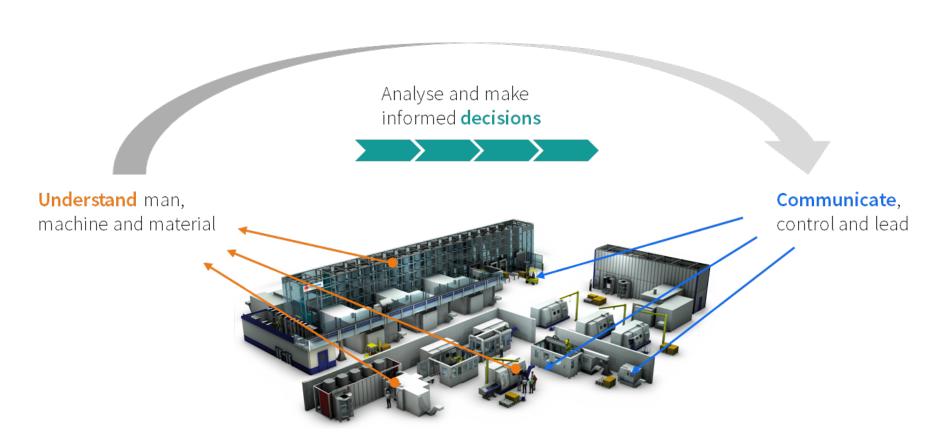
Source: World Bank

Factory shop-floors are important

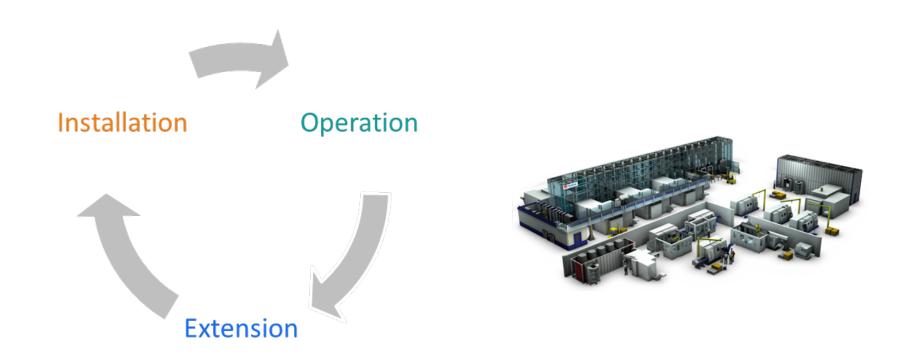


Source: EPA

Key operational value potential of *Industry 4.0*



Key technical value potential of *Industry 4.0*



Actyx Digital Industry Solutions-as-a-Service



Actyx Solutions

Production Management

The right man and machine working at the right time.

Material Management

The right material at the right location at the right time.

Worker Assistance

Information and insights for doing things the right way.

Actyx Service

Analysis

Implementation

Installation

Operation

actyx24x7

- Bespoke solution
- Amazing user-experience
- Absolute peace-of-mind
- Valuable business case
- Built for the future

Example 1: Real-time shop-floor management



Example 2: User-friendly material management



Leveraging AWS to digitize factory shop-floors

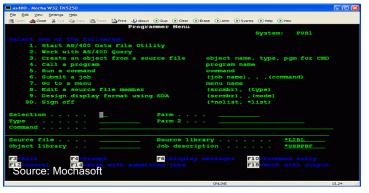


Digitizing shop-floors is quite difficult

Industrial processes and assets



Legacy IT-Systems



Analog information flows

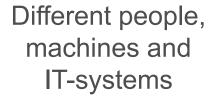


Life-/mission-critical requirements



Digitizing shop-floors is quite difficult

Processes are a little different in every factory



Must always run and always be secure





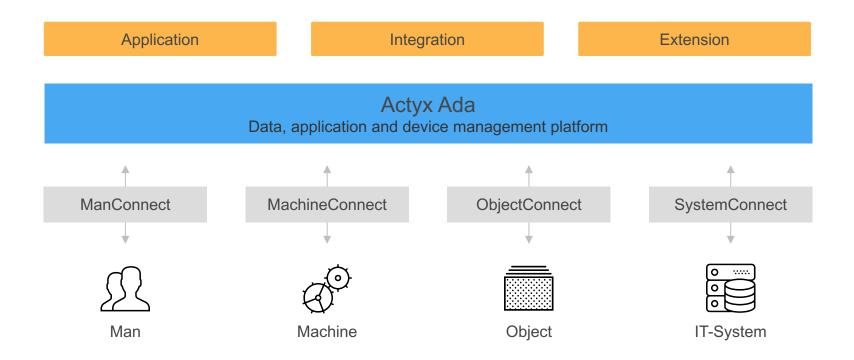


Rapid modelling of events, states and transitions

Interoperability with different types of legacy systems

Mission-critical applications and data sets

The Actyx Architecture



Ex. Application

Cloud Data/Stream Sink

Reporting and Analytics

AWS services in use























App. Lifecycle Mgmt

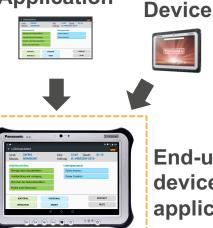
Device Lifecycle Mgmt

Infrastructure Mgmt.

DevOps

Application

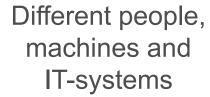
Actyx Ada (Edge) **ERP Distributed Computing SysConnect** infor **Distributed Streams** Interplanetary File Sys. **NFS** SysConnect Local Data Fetcher CAQ SysConnect ManConnect



End-user device and application

AWS helps us face some of our key challenges

Processes are a little different in every factory



Must always run and always be secure







Rapid modelling of events, states and transitions

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