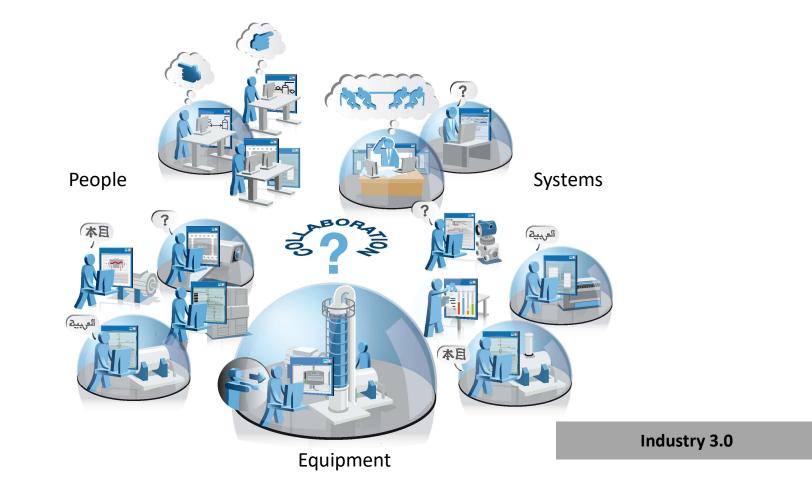
NetThings – A future with smarter Things

Mikael Rudin Aspect Systems

Content

- The Goal of Digitalization
- Trends and Concepts
- Industry Transformation and Challenges
- NetThings
- Industrial Metaverse

Industry Challenges – Why Digitalization



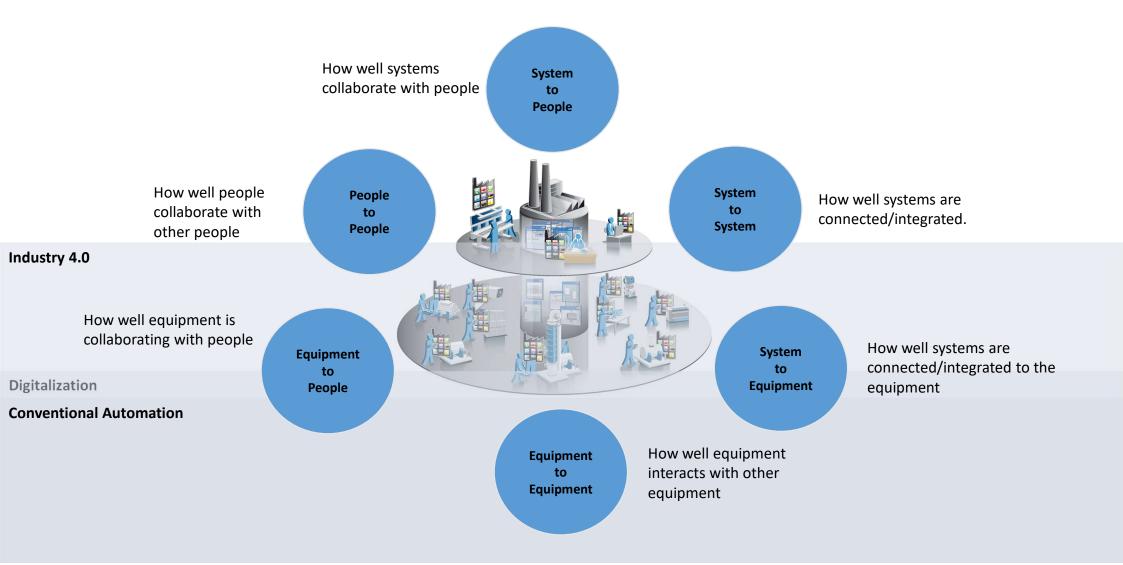
People, Systems and Equipment Collaboration > Productivity



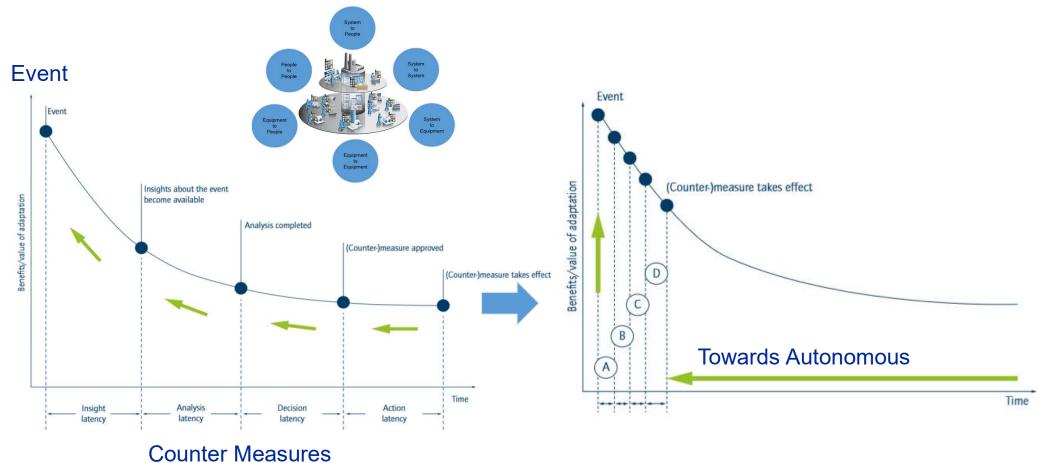
People, Systems and Equipment Collaboration > Productivity



The Collaboration components

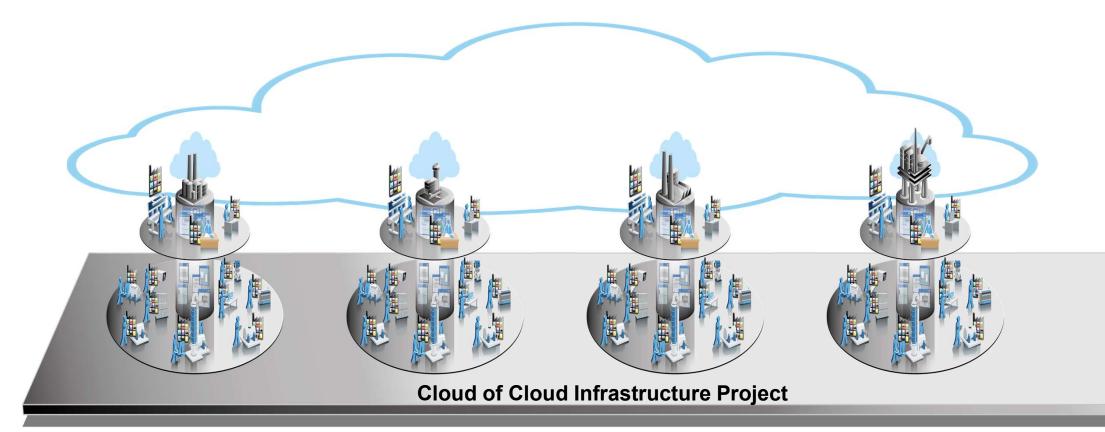


The effect of improving collaboration



Digitalization brings the ultimate collaboration effect

People, Systems and Equipment Collaboration – Vision





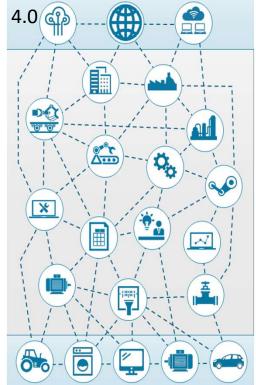
Industry 4.0

INDUSTRIE4.0

- Industry 3.0
 - Hardware based structure
 - Functions bound to hardware
 - Hierarchy based communication
 - Isolated Products



- Industry 4.0
 - Flexible systems and machines
 - Functions are distributed in the network
 - Communication among all participants
 - Products are part of the network



Digital Twins and Internet of Things (IoT)

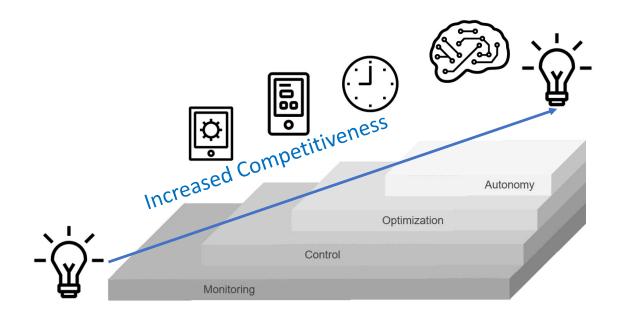
- Digital Twin
 - Represent equipment with an IOT replica in the IT space
 - Connect and empower it with advanced services
 - One
 - App Ecosystem
 - Thing / Family of Things







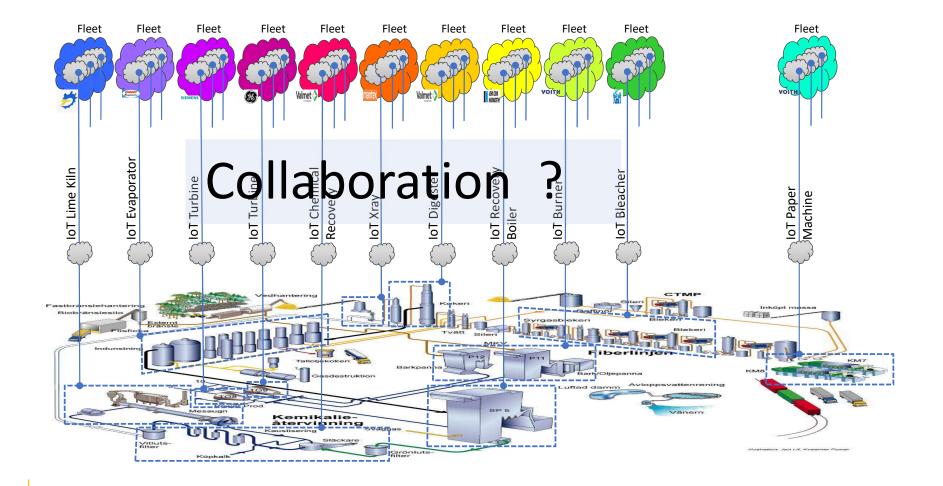
The goal of IoT products



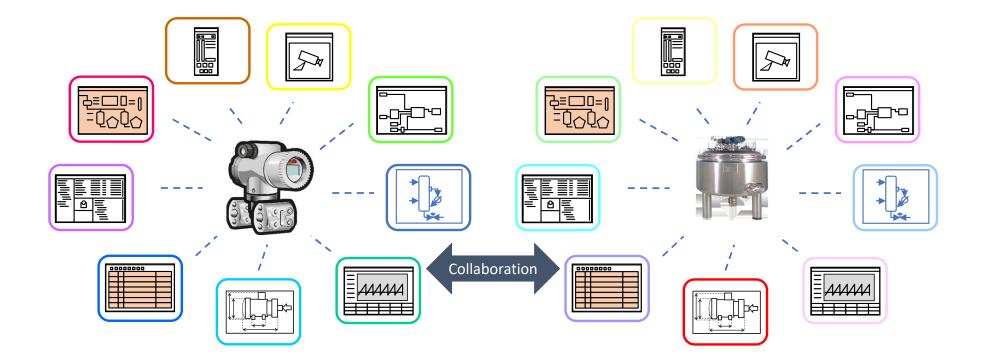
April 8, 2022 Slide 11



IoT Ecosystems in a factory scenario



Autonomous Equipment, Digital Twins, Apps & Collaboration



The future of Industrial Equipment is collaborating Apps !

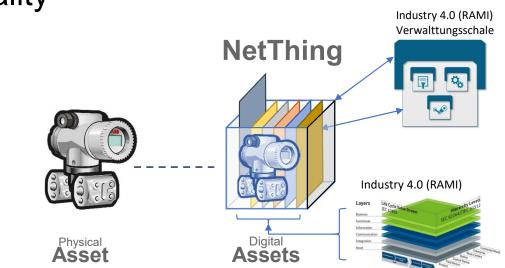
April 8, 2022

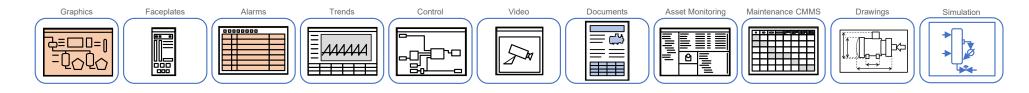


This is the Problem we need to solve !

Things and related Ecosystems

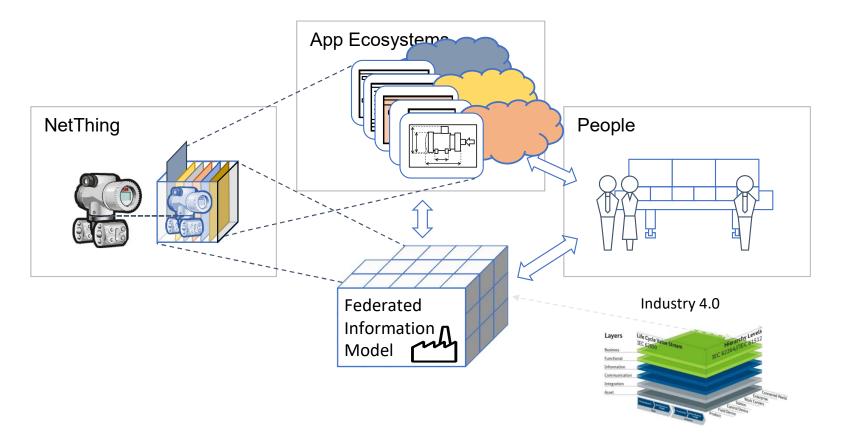
- Production Ecosystem functionality
 - Faceplates, Graphic Symbols
 - Alarm management
 - Trend, History
 - Drawings, Documents
 - Instructions
 - Pictures
 - Video, CMMS...





NetThing - Cyber Physical Thing – A Digital Twin Container

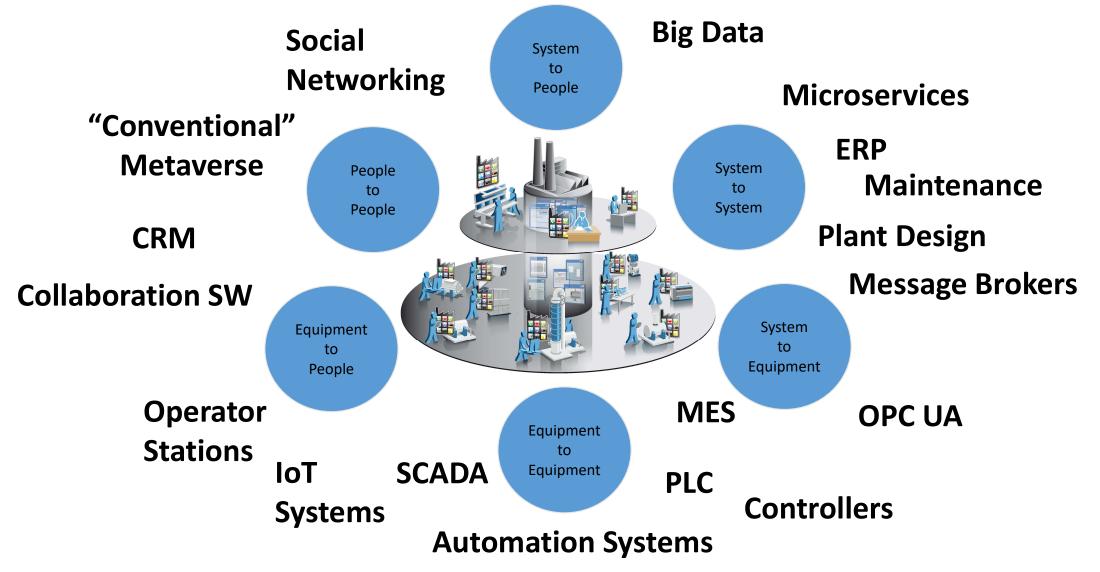
NetThings and App Ecosystems



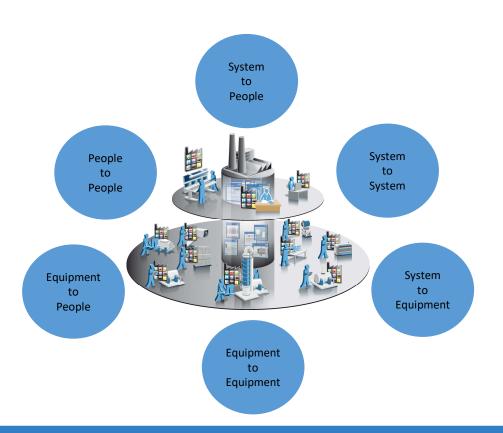
Internet of Things, Systems, and People

April 8, 2022

The industrial Metaverse



Summary



The goal of Digitalization is Efficient Collaboration between People, Systems and Things

Comments

Questions ?