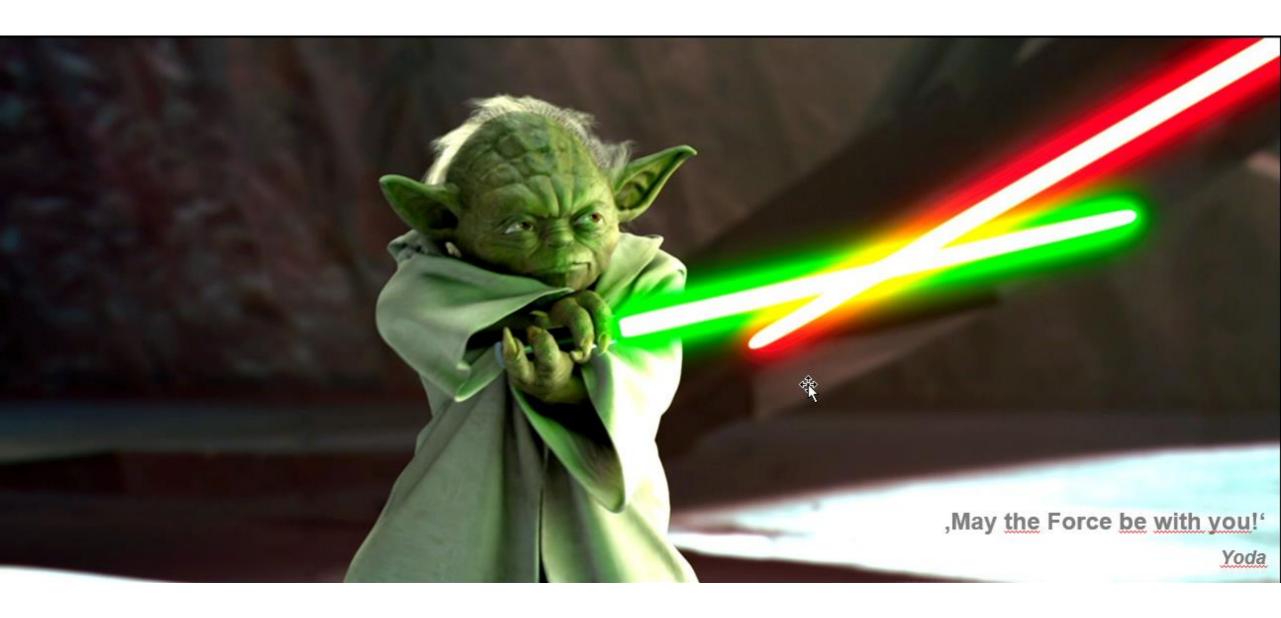


SAP IoT Strategy

How to influence your processes and business models

Timothy Kaufmann, Head of Business Development MEE 10.10.2018





The Change of Value Creation and Business Models

New Technologies

Connectivity

New Players

Individualization

New Value Creation



3D-Print, Blockchain, etc.



Connected Things – Everything is connected



Logistics Provider opens 3D Printing Factory



Personalized Products



Local Motors* develops vehicles in an Open-Source Community

Digital Enterprise: How to survive disruption and thrive in the digital age









Digital business models

Rethink new business ventures

30% industry revenues from

Digital transformation initiative

Rethink core & support functions

90% companies significantly optimized operations past 2 years

Digital talents and skills

Rethink automation & working culture to attract, retain & develop talent and diversity

81% managers believe that machines will increase employee productivity

Digital metrics for success

Rethink KPIs in the digital age, track metrics that matter and respond in real time

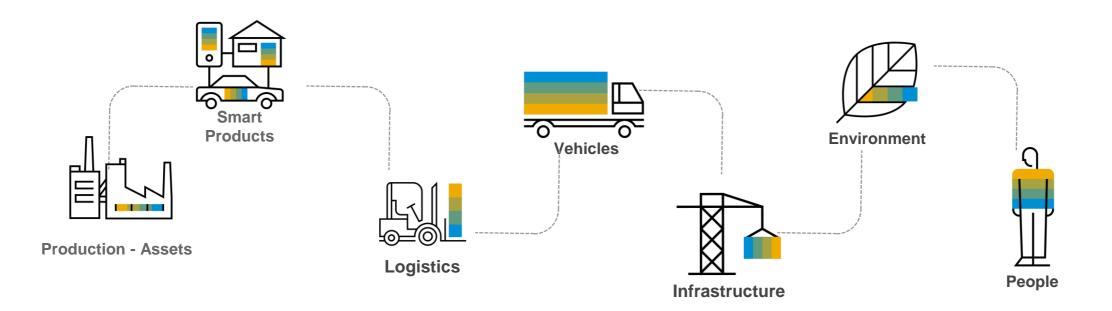
26% more profit is earned by companies that understand digital transformation

World Economic Forum - Digital Strategies: http://reports.weforum.org/digital-transformation/

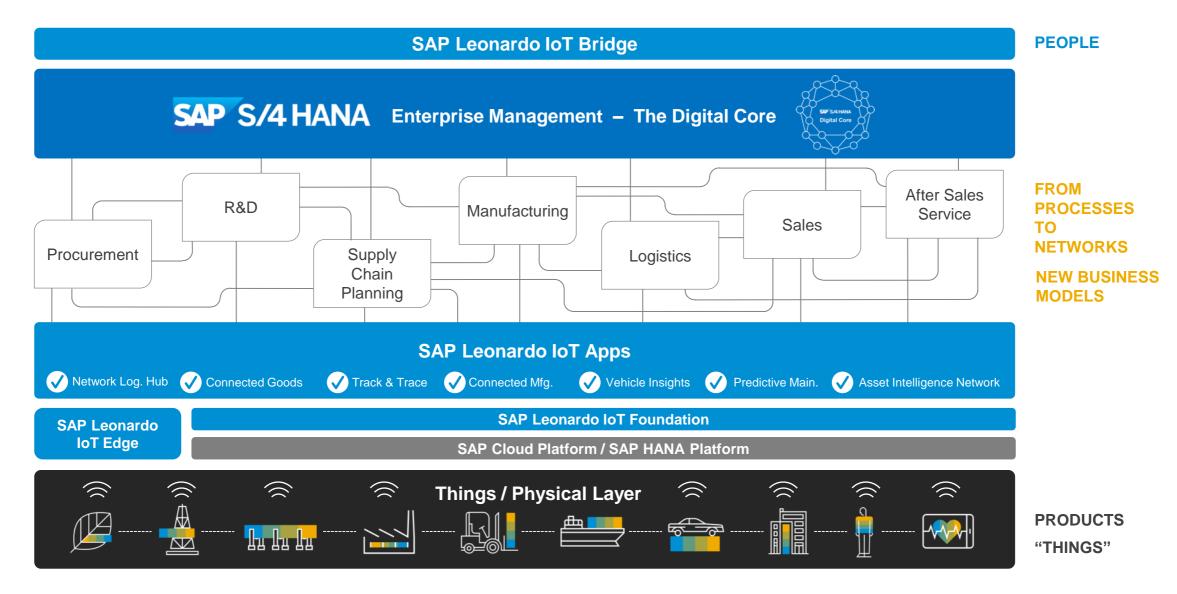
Every "Thing" is Connected

 Chances for Processes and Business Models

Data is available 24/7



SAP Leonardo Internet of Things & Digitizing Business: The Big Picture





Reimagining business models KAESER





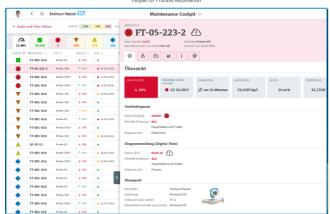
Digital Services

IoT Business Models

Digital Solutions

Products and services
Connectivity
Data driven services
Personalized, individual products

Endress + Hauser



Value-Creation Networks

Processes along the horizontal Value Chain

Different partners of the horizontal chain and network operator, supplier, service-provider

Networks for Logistics, Assets, Purchasing etc.



Platform Business Model

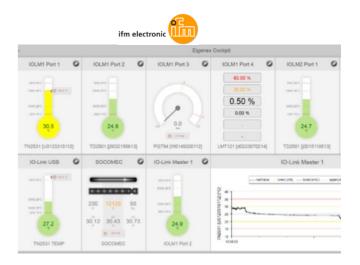
Plattform for apps

Development for customers and partners

Marketplace concepts

Open or closed platforms

Choice of the right platform



IoT Process Innovation

Asset Management/Operations

Increase Plant Availability
Move from Fixed to Dynamic Intervals
Move from Reactive to proactive and
predictive maintenance
Avoid and reduce over maintenance
Optimize Maintenance process together
with the relevant manufacturers (asset
collaboration)



Digital Service

Optimize Service Processes together with the operator
Optimize value chain from configuration into service
Spare Parts Processes
Reduce Lead Time
Service Contracts Management

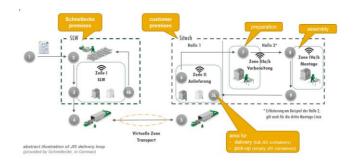
Logistics

Reduce Time to Delivery
Increase Delivery Quality
Optimize Logistics and Transport
Processes
Monitor Commercial Vehicles

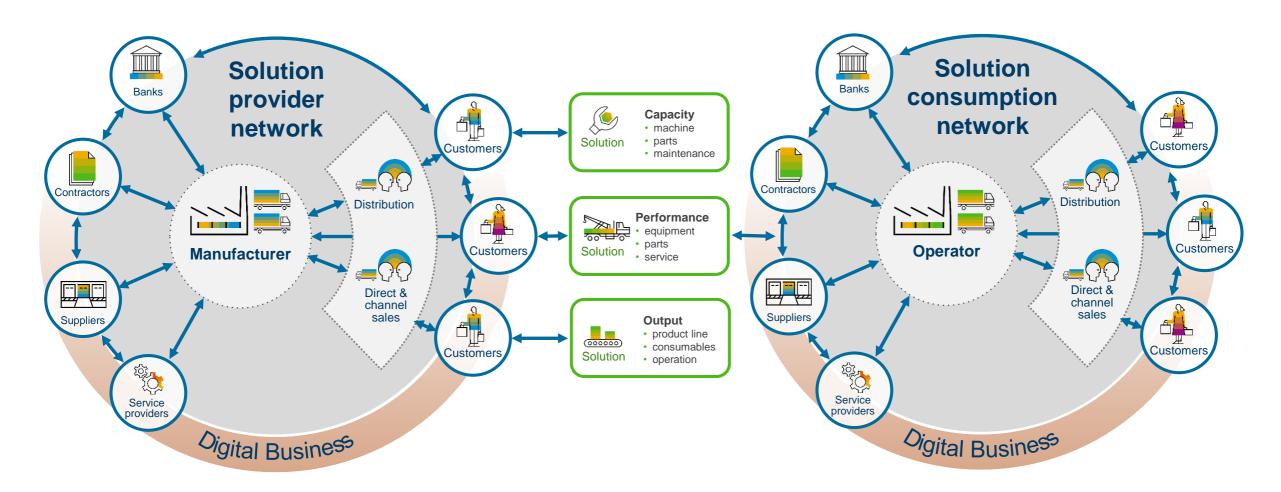








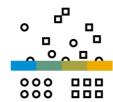
The Solution Provider Network – 1:1



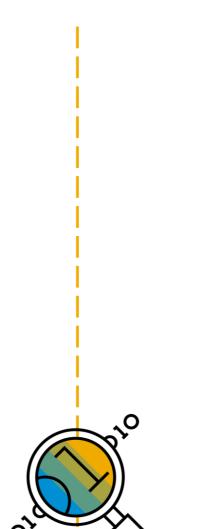
Manufacturer and Operator





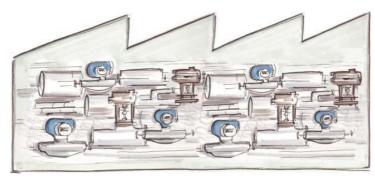


Data + Interpretation



Service













Analysis

Decision

Maintenance

The Solution Provider Network in the Digital Age

Module and Parts
Tier 2 Suppliers Tier 1

Industrial Equipment

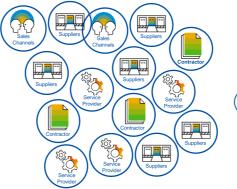
Manufacturer

Go-to-Market / Aftermarket Eco System Manufacturer = **Operator**











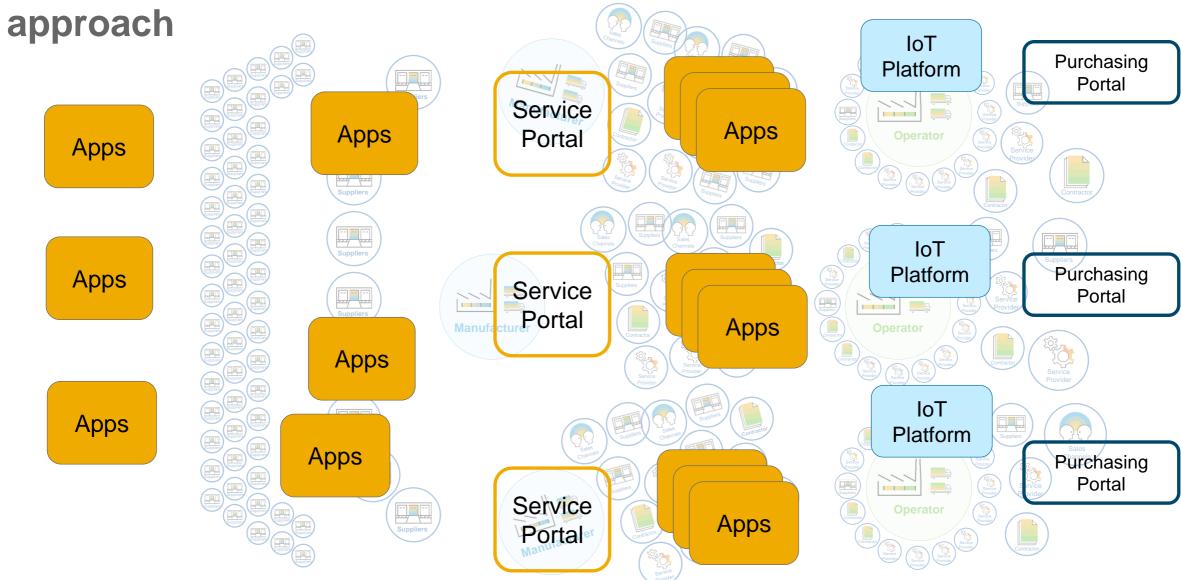
The Solution Provider Network in the Digital Age



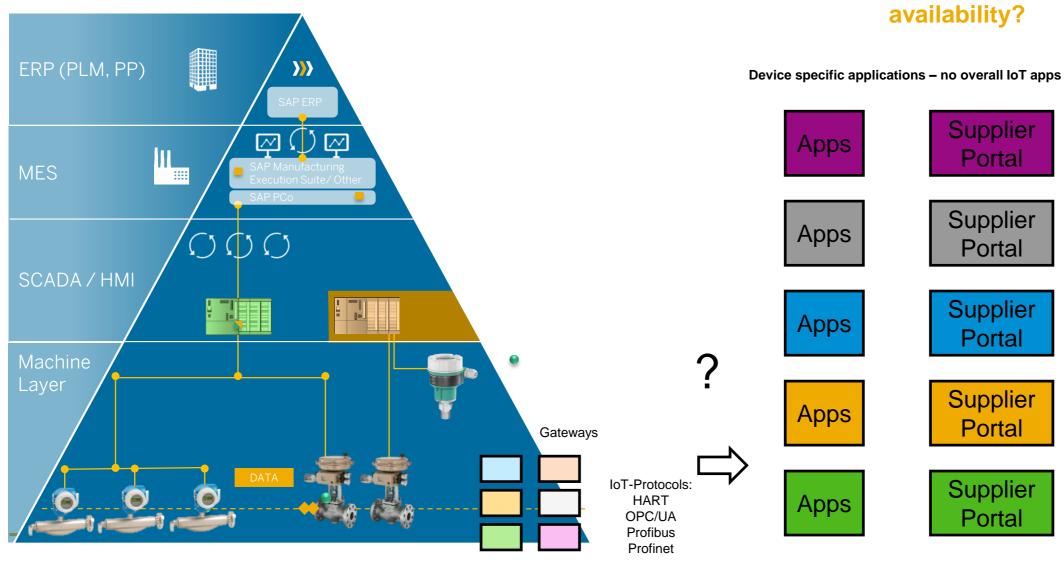
The Solution Provider Network in the Digital Age



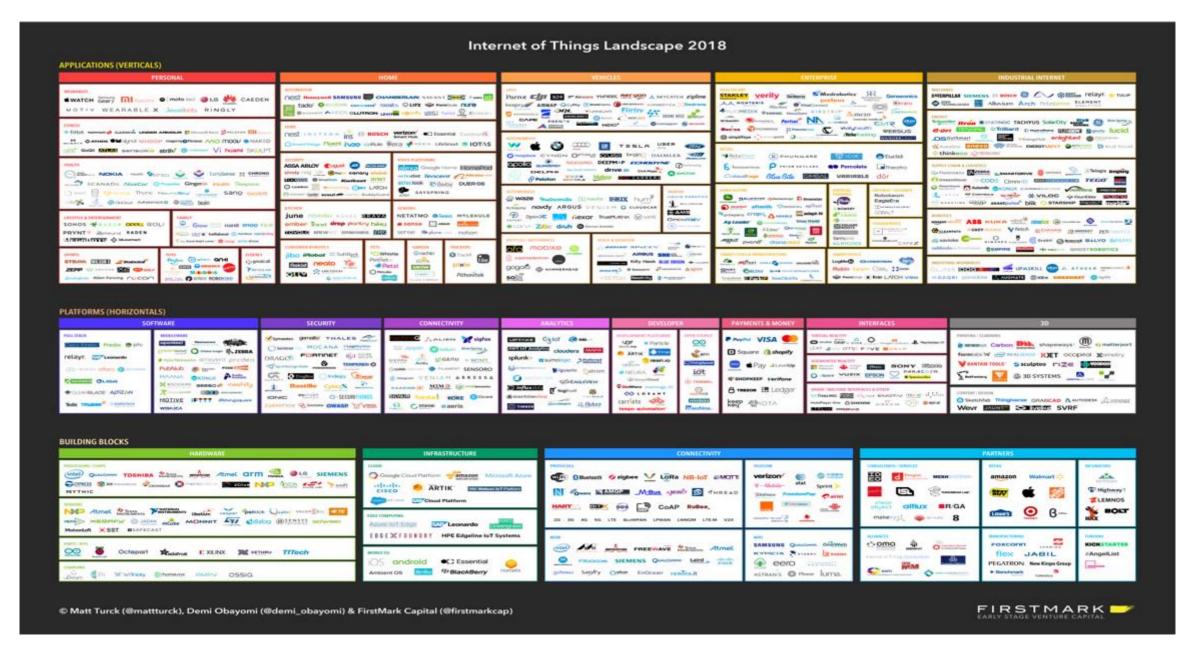
The Solution Provider Network in the Digital Age without a joined



The challenge of the customers



Increase of overall plant visibility and



A new Approach is needed



How to make data available in the field devices with little effort?

How to increase the availability of the plant?

How to offer Digital Services to increase availability?





Out-of the box connectivity

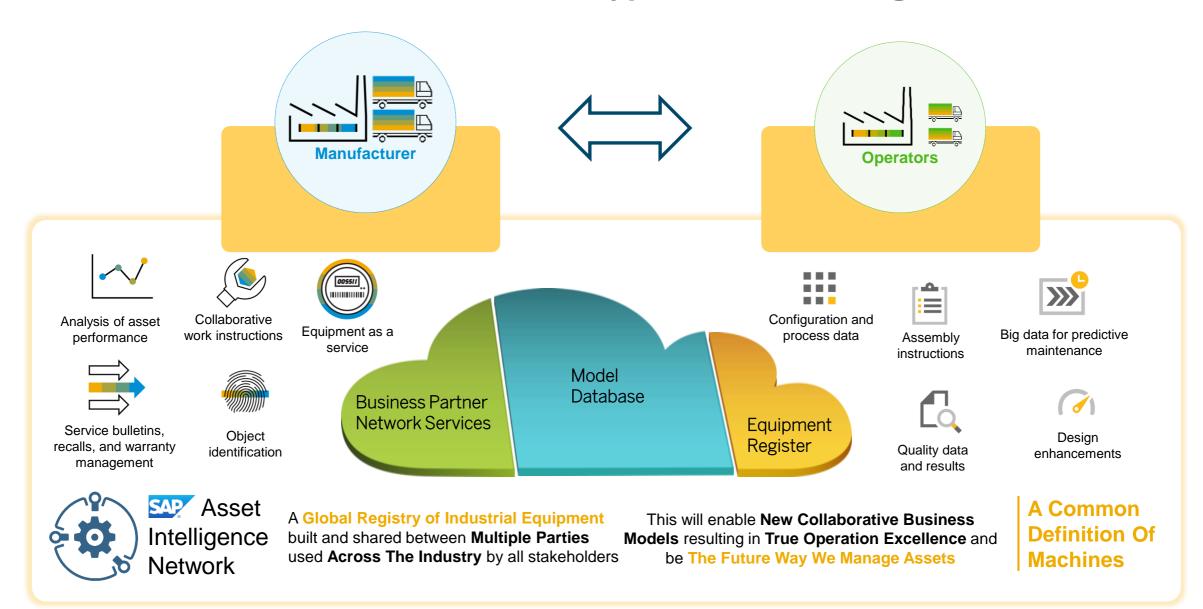


Asset Collaboration

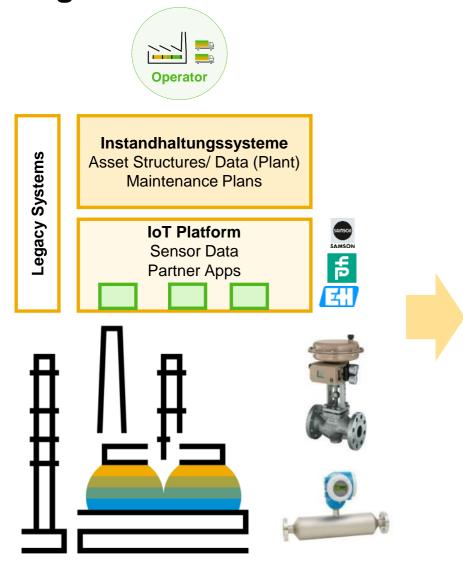


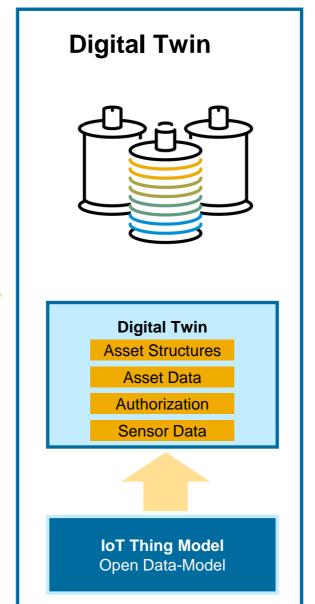
Apps with joined Digital Twin

Accelerate Asset Collaboration: a new type of Asset Management

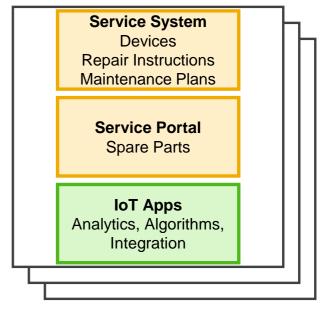


Digital Twin as Combination between Manufacturer and Operator













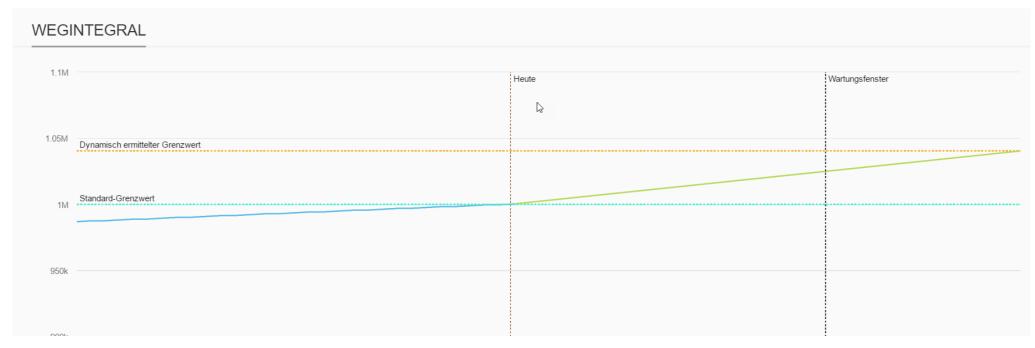


Architecture Model with IoT Cloud Platform

Automation Pyramid in conjunction with IoT Cloud approach Leonardo Apps Your own Leonardo IoT from partners Leonardo Apps Apps from SAP **ERP >>>** (PLM, PP, PM, QM...) SAP S/4 (or ECC) MES SAP Manufacturing (S95 or S88) **Execution Suite SAP Asset Intelligence Network** GREEN FIELD **BROWN FIELD** SCADA / HMI **SAP IoT Application Enablement Data Management** Leonardo Machine services P-R-O-F-I Layer IO-LINK **GATEWAY**

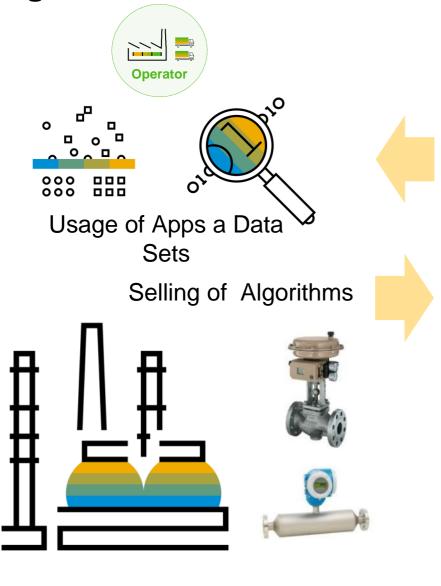
SAP Cloud Platform

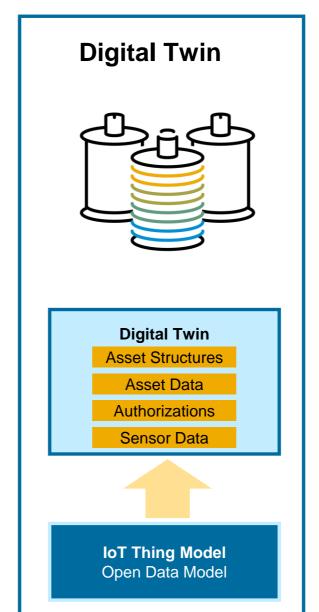
Example of App





Digital Twin as Basis for Business Models









Selling of Apps and Services







Size matters not. Look at me. Judge me by my size, do you?

Yoda

Thank you.

