

**SAP® Digital Supply Chain** 

## **SAP IoT Data Lake Abstraction for Timeseries Data**

Martin Ebert, Shyam Ravindranathan SAP February 2<sup>nd</sup>, 2021

INTERNAL



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#### Agenda



Introduction to the SAP Internet of Things (SAP IoT)



SAP IoT Data Lake Abstraction with Timeseries Data



Q&A

# Introduction to the SAP Internet of Things (SAP IoT)



#### What Is SAP Internet of Things (SAP IoT)?



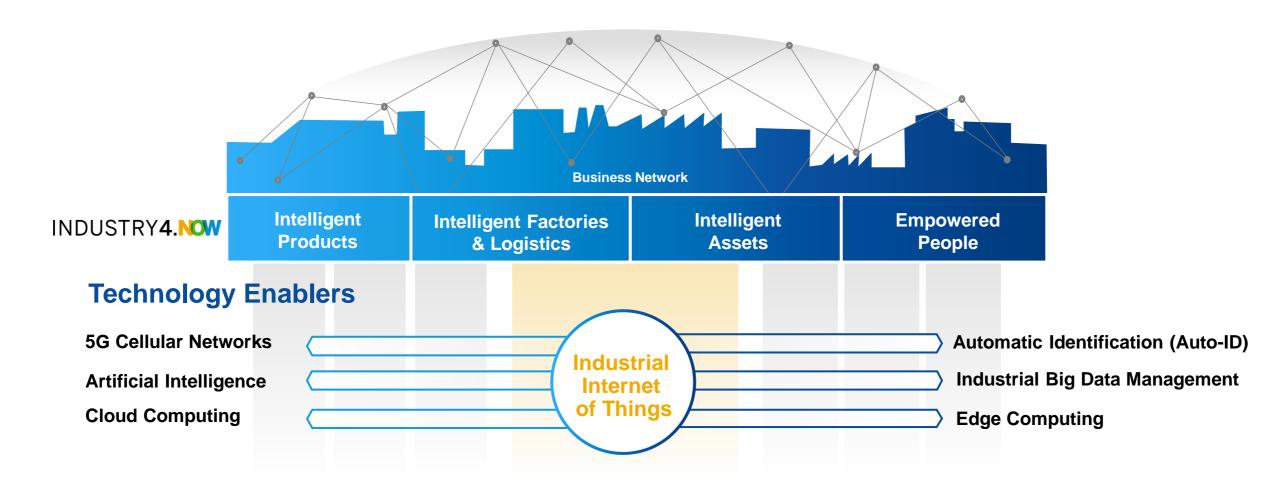
The SAP IoT is a network of physical objects that collect and exchange Data

- Machines
- Containers
- Vehicles
- Pallets
- These objects are embedded with sensors that measure data from their environment
- Temperature
- Humidity
- Acceleration
- Geo Location

The data is ingested into an edge or cloud solution, where it is processed and analyzed

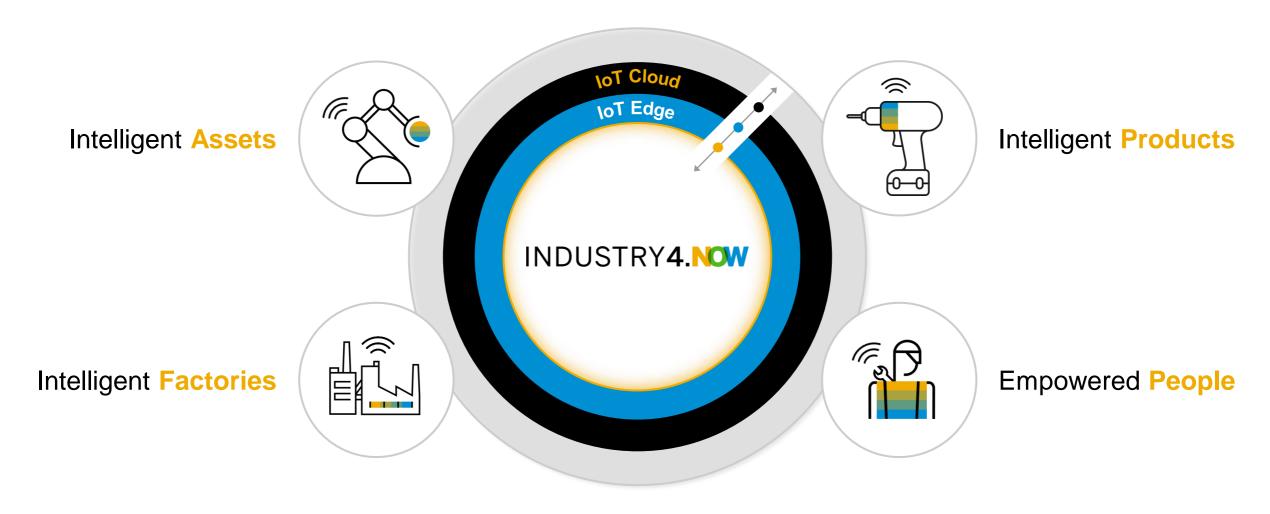
#### SAPs Industry 4.0 Strategy is called Industry 4.Now

Leveraging IIoT to Enable Intelligent Enterprise Technologies and Applications



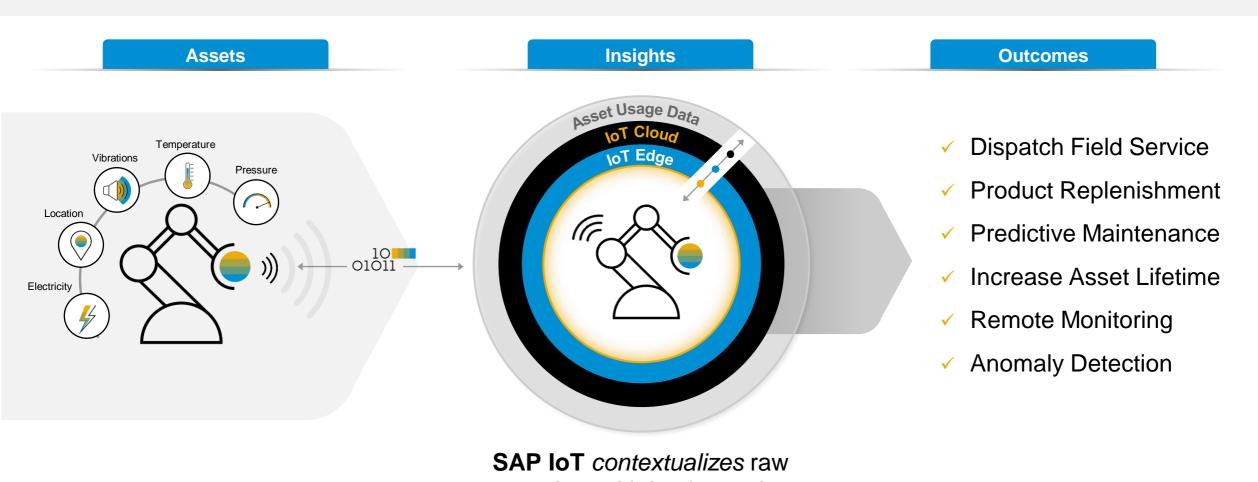
#### IoT enabling Industry 4.0

SAP IoT enables Industry 4. Now in the Cloud and at the Edge



#### IoT enabling Intelligent Assets

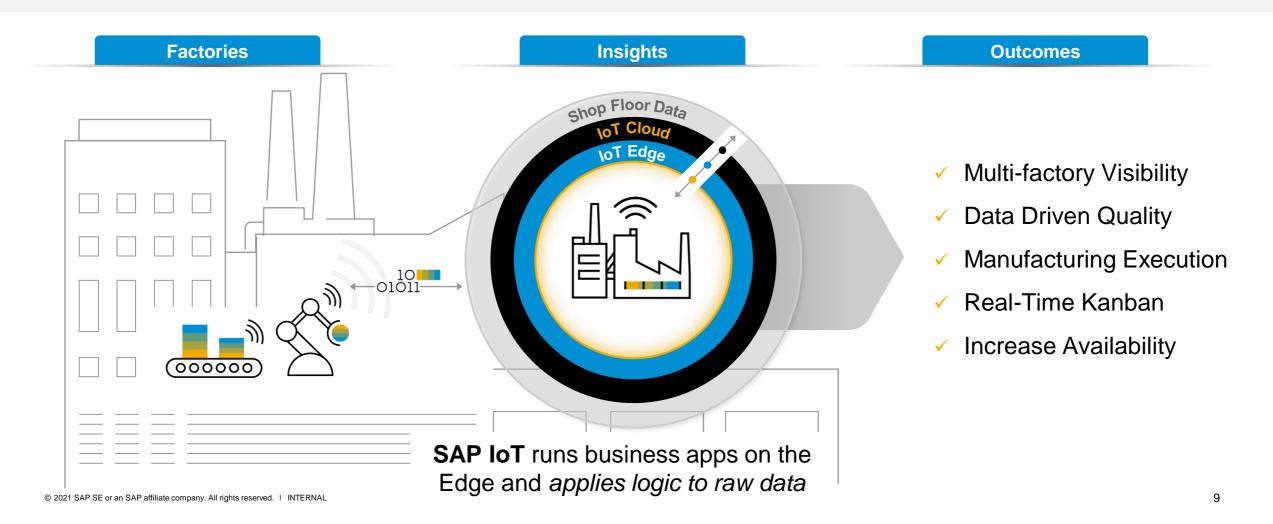
Knowing your asset health and handling data centrally, leads to higher uptime and efficiency.



© 2021 SAP SE or an SAP affiliate company. All rights reserved. I INTERNAL asset data with business data

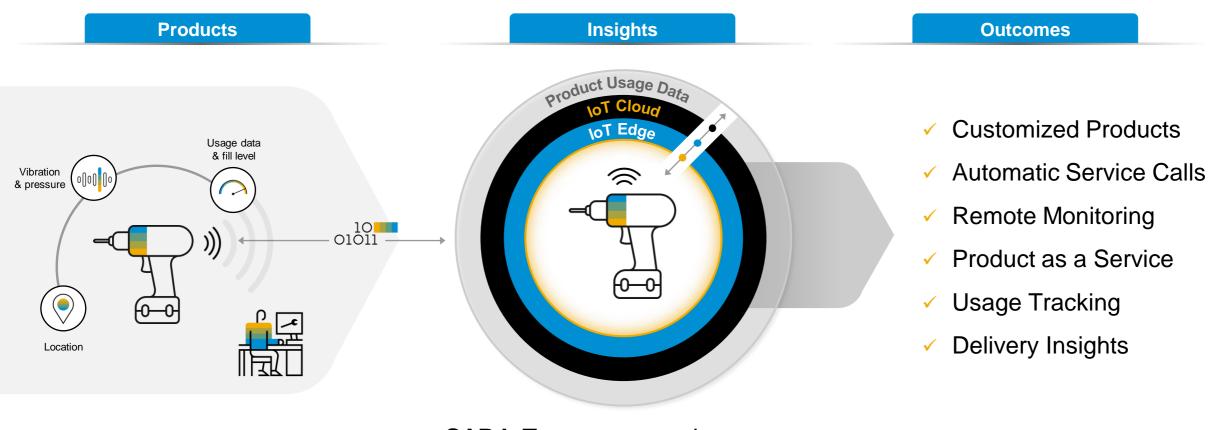
#### **IoT** enabling Intelligent Factories

A smart factory is agile, adaptable, and efficient. Decisions can be taken real-time at the Edge.



#### **IoT enabling Intelligent Products**

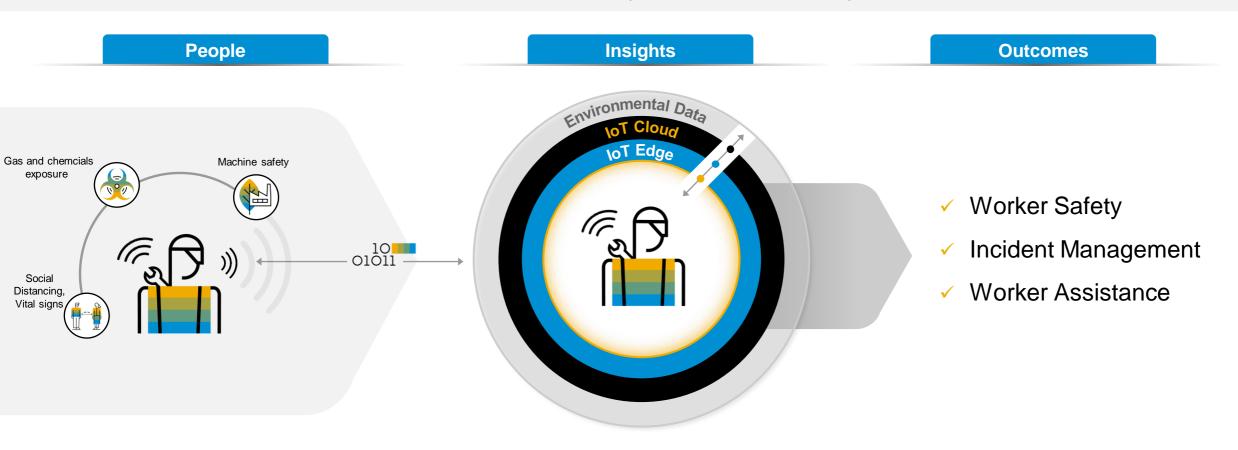
Being able to design and service intelligent and highly customized products requires embedded technologies.



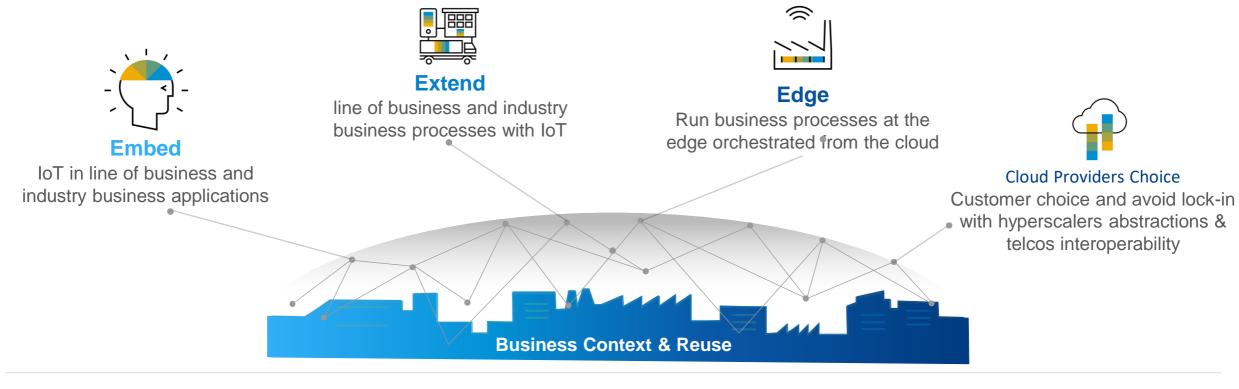
**SAP IoT** connects product usage data to customer experience

#### **IoT enabling Empowered People**

Giving employees the tools they need to do their jobs effectively increases reliability and worker safety.



#### **Value Proposition**



Collect, Store, Transform, Enrich & Analyze IoT Sensor Data as key enabler for Business Outcomes in SAP Industry 4.Now Applications at the edge and in the cloud





Internet of Things



Industrial Big Data Management



Edge computing



5G Cellular Networks

**Enabling Technologies** 

## SAP IoT Data Lake Abstraction with Time Seriesdata



#### Leveraging IIOT to Enable the Intelligent Enterprise with Industry 4.0

#### Data Lake Abstraction with Time Seriesdata



Our customers have a choice how to bring industrial (IoT) data to the cloud and how to orchestrate it.



SAP Industry 4.0 offers the complete flexibility to either directly 'harvest' and process device/machine data in SAP or integrate to customer's own data lakes.

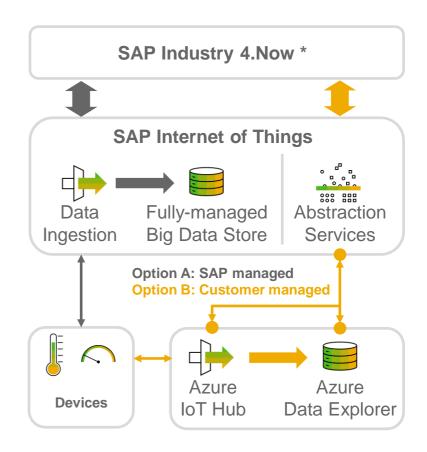


With Microsoft as a frontrunner we offer an IoT data storage in a Microsoft MSFT Azure Data Explorer which is deeply integrated out of the box into SAP IoT.

#### **SAP IoT Data Lake Abstraction for SAP Industry 4.Now**

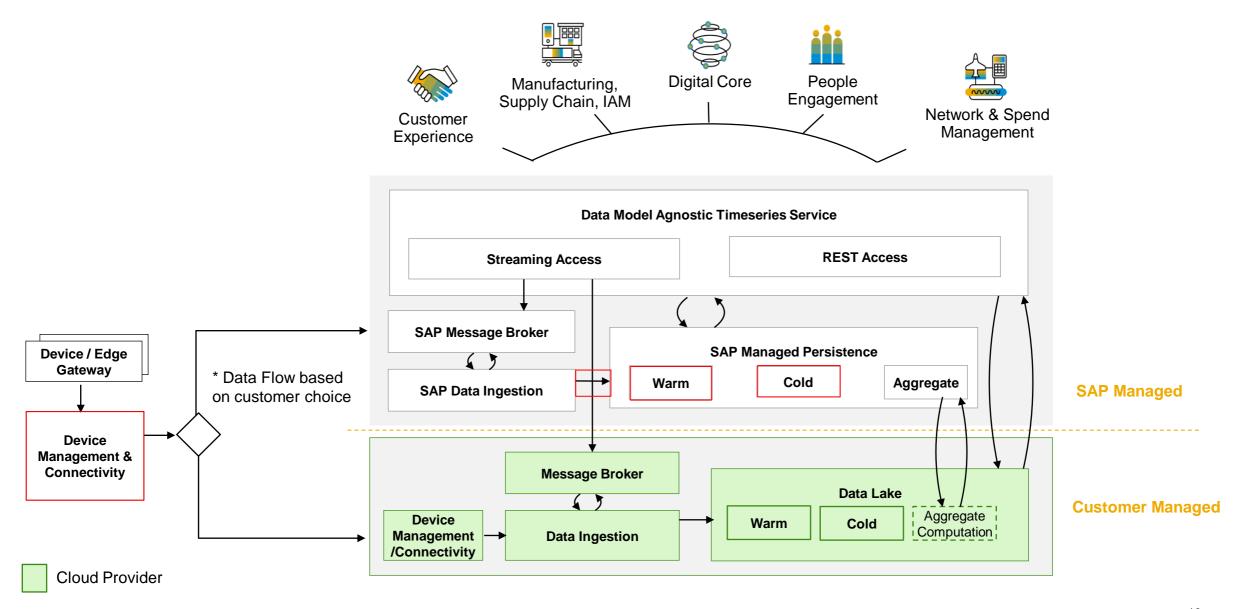
#### **Key Messages**

- SAP customers have the choice to use SAP's data lake or bring their own Non-SAP data lakes for managing IoT data
- SAP customers also have the choice to use device connectivity from SAP or other cloud providers
- SAP Enterprise Product Development (Intelligent Products) and SAP Predictive Insights\* (Intelligent Assets) are the first business applications released with IoT Data lake abstraction on Microsoft Azure Data Explorer



<sup>\*</sup> Future product functionality

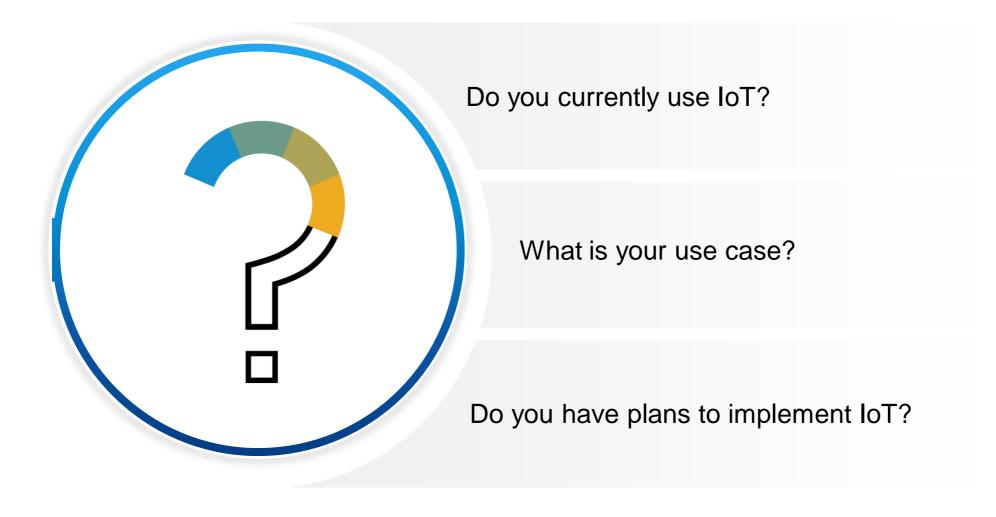
#### **SAP IoT Abstraction Layer – Architectural Overview**



### **Discussion Round**



#### **Discussion Round**



### Thank you.

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