

## **Industrial Cloud**

Managementsitzung – 23<sup>rd</sup> September, 2019



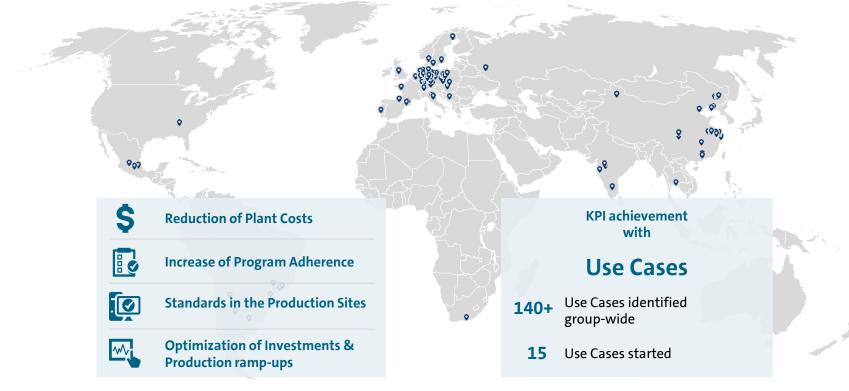
AKTIENGESELLSCHAFT



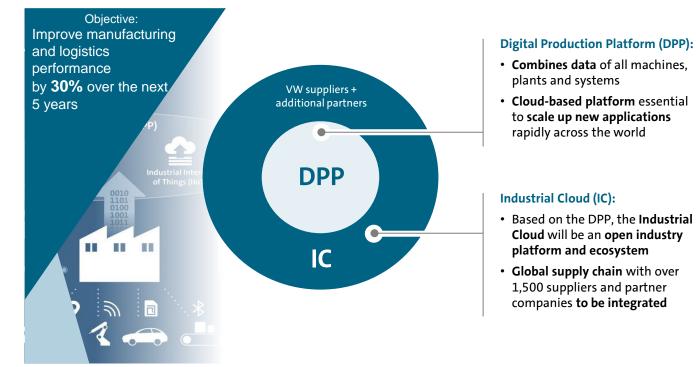


AKTIENGESELLSCHAFT

#### Focus on all 122 Production Sites worldwide

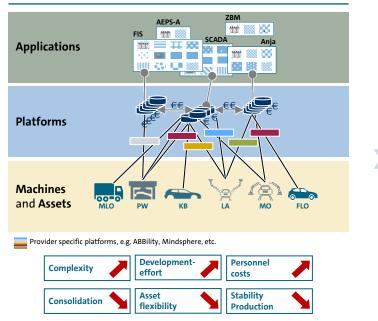


#### Volkswagen Industrial Cloud Digital transformation of production and logistics

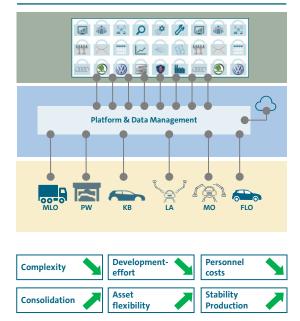


# Digitalization Roadmap Production & Logistics enable significant sustainable savings and fulfill the goals of the strategy

#### As-Is: fragmented IT/OT landscape

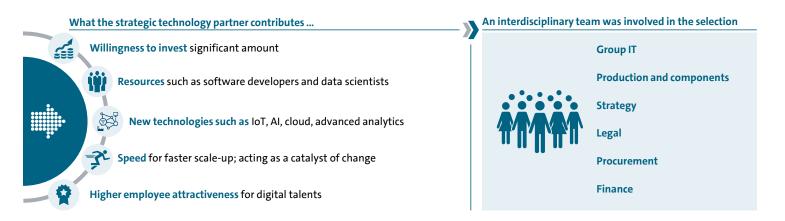


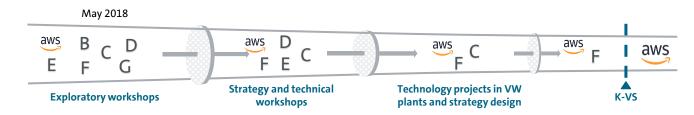
#### **Goal: integrated platform architecture**



A K T I E N G E S E L L S C H A F T

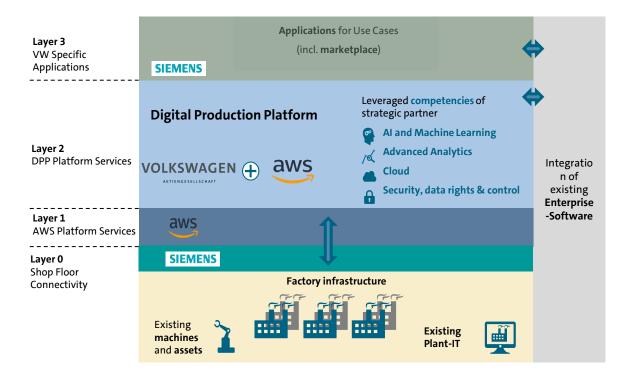
#### Long-term strategic partnership with AWS





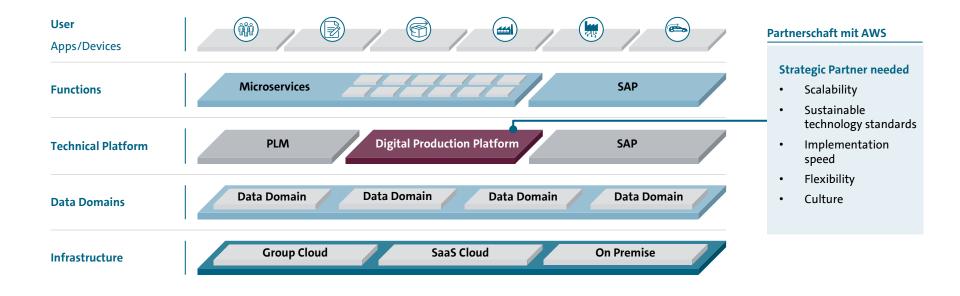
A K T I E N G E S E L L S C H A F T

#### High-Level partner key contributions to the DPP



A K T I E N G E S E L L S C H A F T

#### A uniform architecture for all brands and plants is needed



AKTIENGESELLSCHAFT

#### Introducing AWS Outpost



AWS-designed Nitro infrastructure for the same security and performance Automatically monitored and updated as part of AWS regions Single point of service and support Build once, deploy anywhere.

A K T I E N G E S E L L S C H A F T

#### **AWS Outpost for Manufacturing Automation**

- Outposts runs AWS infrastructure , APIs and services on-premises for easy integration with AWS cloud deployment
- Choice of EC2 instances and local storage for fast computations and real time response
- As-a-service model eliminates the overhead of managing small footprint datacenters
- Connect to regional AWS services such as AWS S3, AWS DynamoDB for data aggregation across environments
- Use AWS CloudFormation and AWS CodeDeploy in AWS cloud to build once and deploy to all sites





#### AWS and Volkswagen contribute key expertise and resources in a long-term partnership







Sector Patients of the local are precommending over 20 entrypoints, navy server, survey or contract, or nave a local at the local are precommending over 20 entrypoints. Check out or writement review and the server's watered by the High sector and Sec

releases a new title? Eyes, our treffers, automated search agent, will rend you mail. Meanwhile, our human editors are hupsy previousing gally and reading advance reviews. They can be you humow when expectably considerable orders are published in particular generator or nodpect areas. Come in <u>a next Every</u>, and have all explained. YOUR ACCOUNTY

Check the ratuue of your orders or change the email address and parsword you have on file with us. Pleare note that you do not need an account to use the store. The first time you place an order, you will be given the opportunity to create an account.







Restseller in Snielzeun

Source: https://www.volkswagenag.com/de/group/history/chronicle/1945-1949.html https://www.volkswagenag.com/de/news/stories/2018/11/the-beetle-history-of-a-cult-car.html https://www.newfangled.com/permanent-transition/ https://www.amazon.de/



The implementation of the DPP and the Indstrial Cloud is based on a common vision and a close collaboration between all involded parties

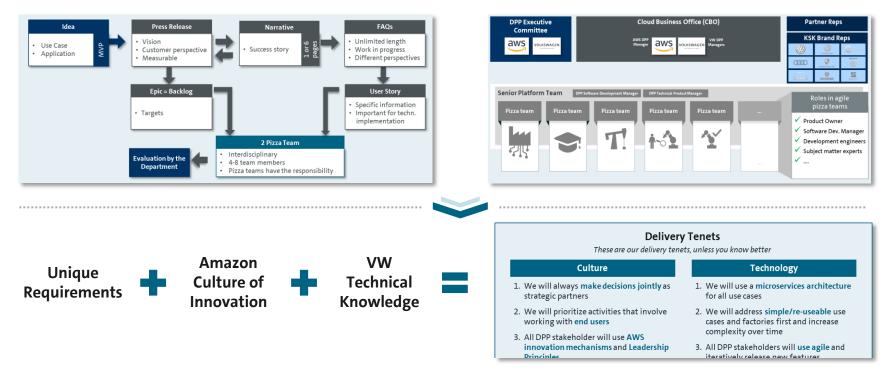
"Together with AWS we will develop the leading Inustrial IoT Platform for the automotive industry"





Joint workshops for knowledge- and team building

# The cooperation between VW and AWS is based on Working Backwards jointly agreed tenets





## Thank You !