Automotive Logistics Livestream
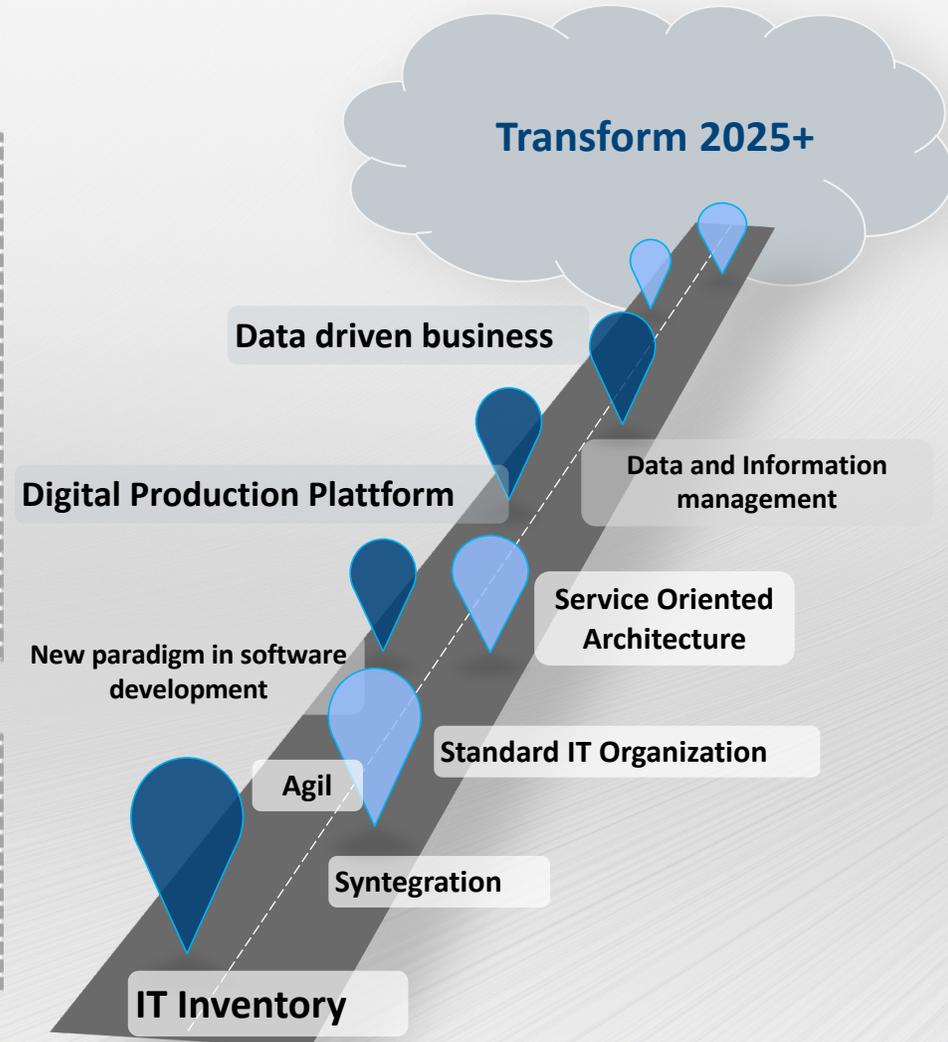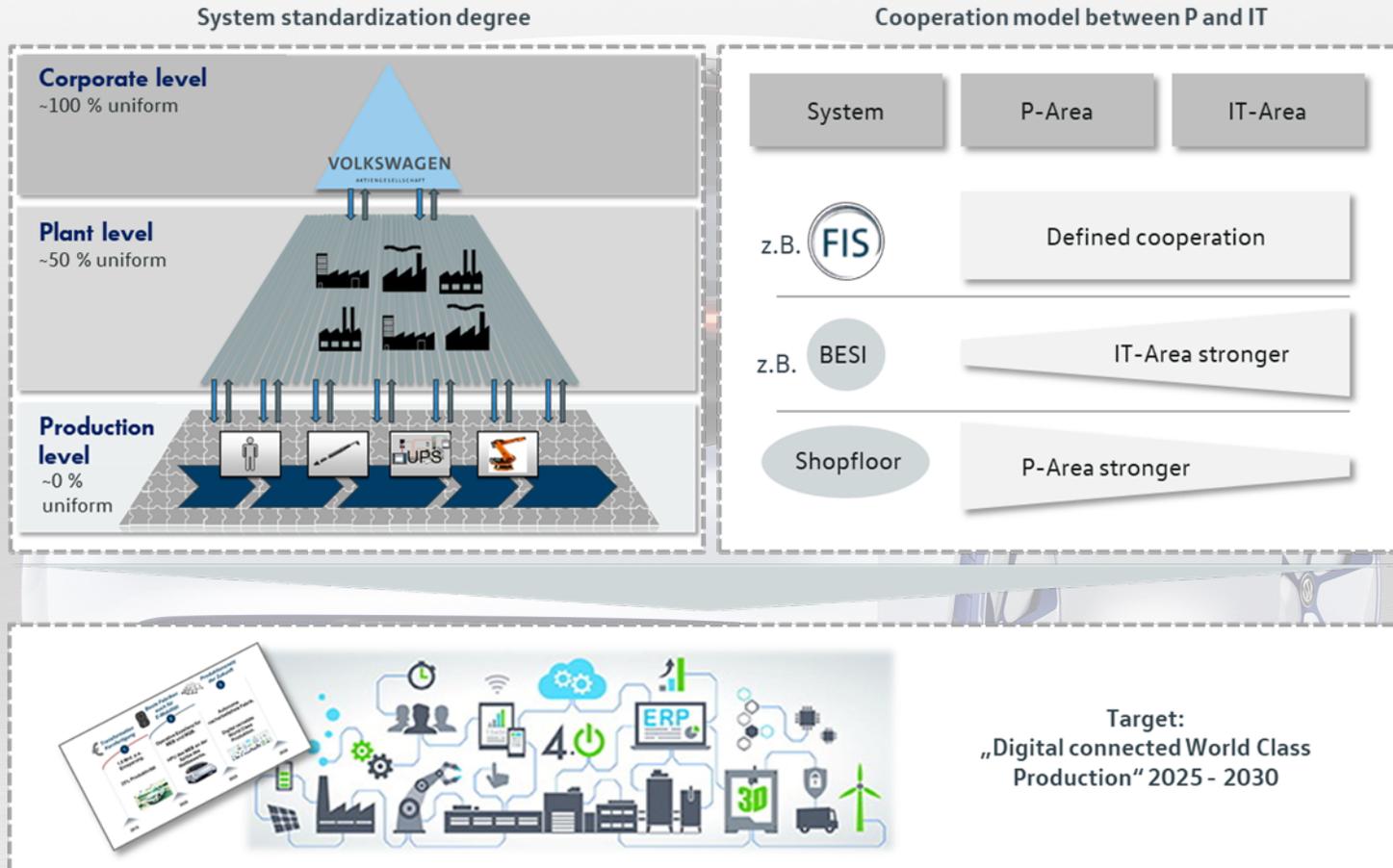# Rise of AI and Analytics
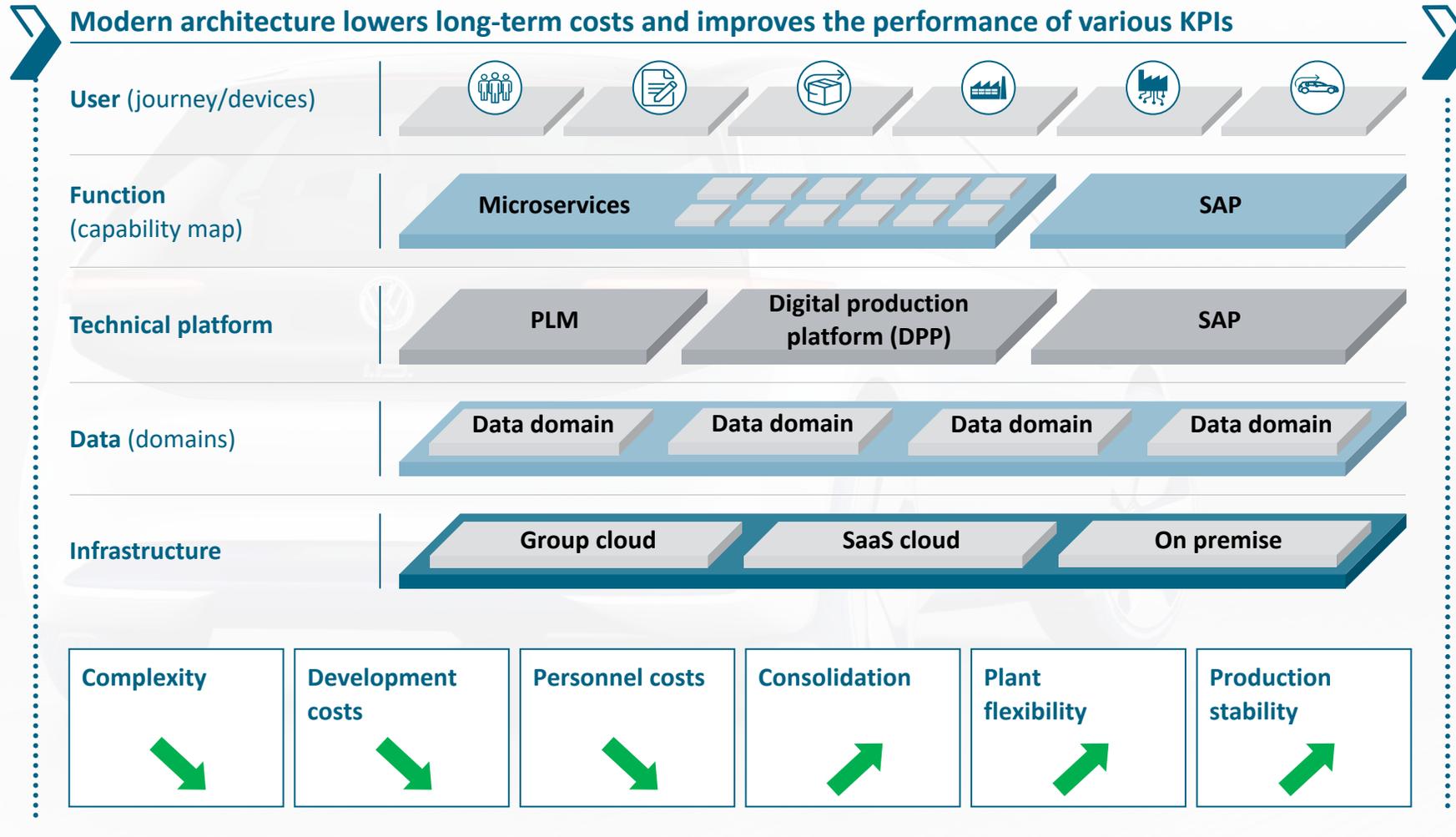
Wolfsburg | July 1st, 2020

Initial situation and strategic goal

System standardization degree

Corporate level
~100 % uniform

VOLKSWAGEN
AKTIENGESELLSCHAFT

Plant level
~50 % uniform

Production level
~0 % uniform

UPS

Cooperation model between P and IT

System	P-Area	IT-Area

z.B. FIS — Defined cooperation

z.B. BESI — IT-Area stronger

Shopfloor — P-Area stronger

4.0

ERP

Target:
„Digital connected World Class Production" 2025 - 2030

Transform 2025+

Data driven business

Digital Production Plattform

Data and Information management

New paradigm in software development

Service Oriented Architecture

Standard IT Organization

Agil

Syntegration

IT Inventory

Key prerequisite is _one_ architecture for all brands and plants

Modern architecture lowers long-term costs and improves the performance of various KPIs

User (journey/devices)

Function (capability map)
- Microservices
- SAP

Technical platform
- PLM
- Digital production platform (DPP)
- SAP

Data (domains)
- Data domain
- Data domain
- Data domain
- Data domain

Infrastructure
- Group cloud
- SaaS cloud
- On premise

Complexity	Development costs	Personnel costs	Consolidation	Plant flexibility	Production stability
↘	↘	↘	↗	↗	↗

VOLKSWAGEN AKTIENGESELLSCHAFT

aws

Together we are shaping our future!

Thank you for your attention.

BACKUP

Agile management
Information management Production/ Syntegration

Tuesday, 5 pm
„Sprint Planning"

Wednesday
„Standup"

Friday, 4 pm
„Review"

Sprint

14 days

Sprint Planning Meeting
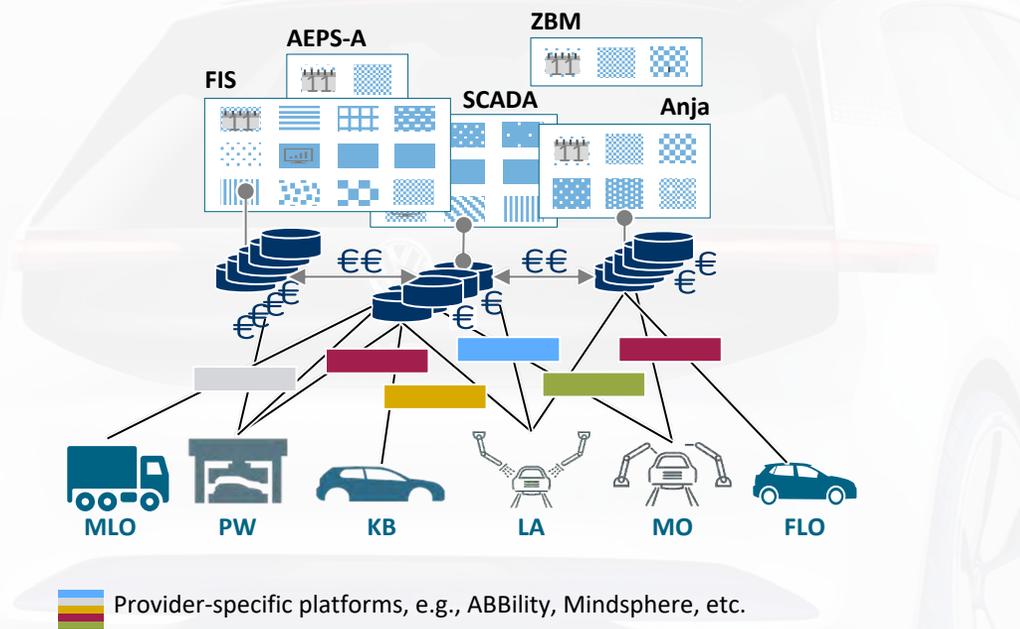
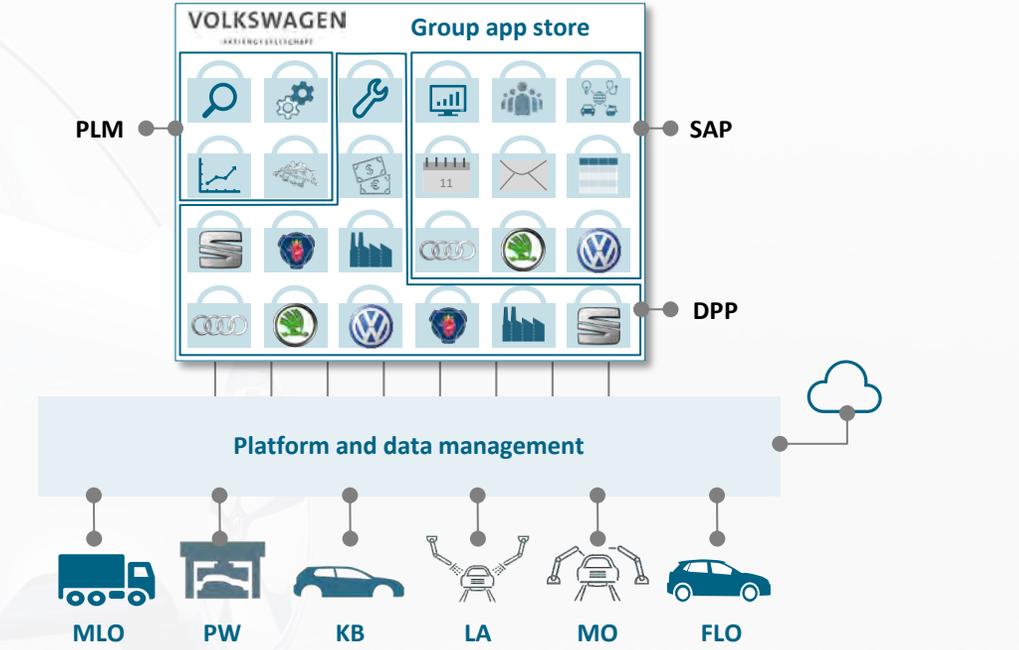Sprint Review Meeting

GROUP CONNECT

SCRUM ROOM

skype™
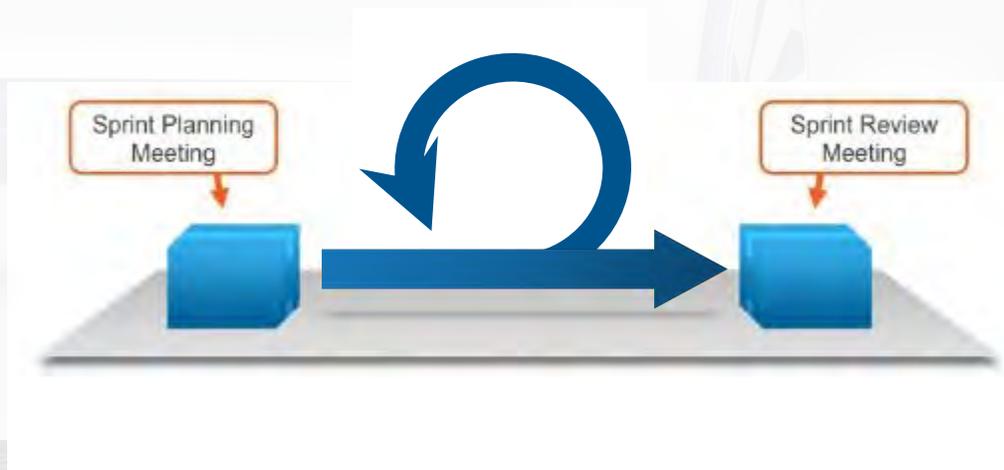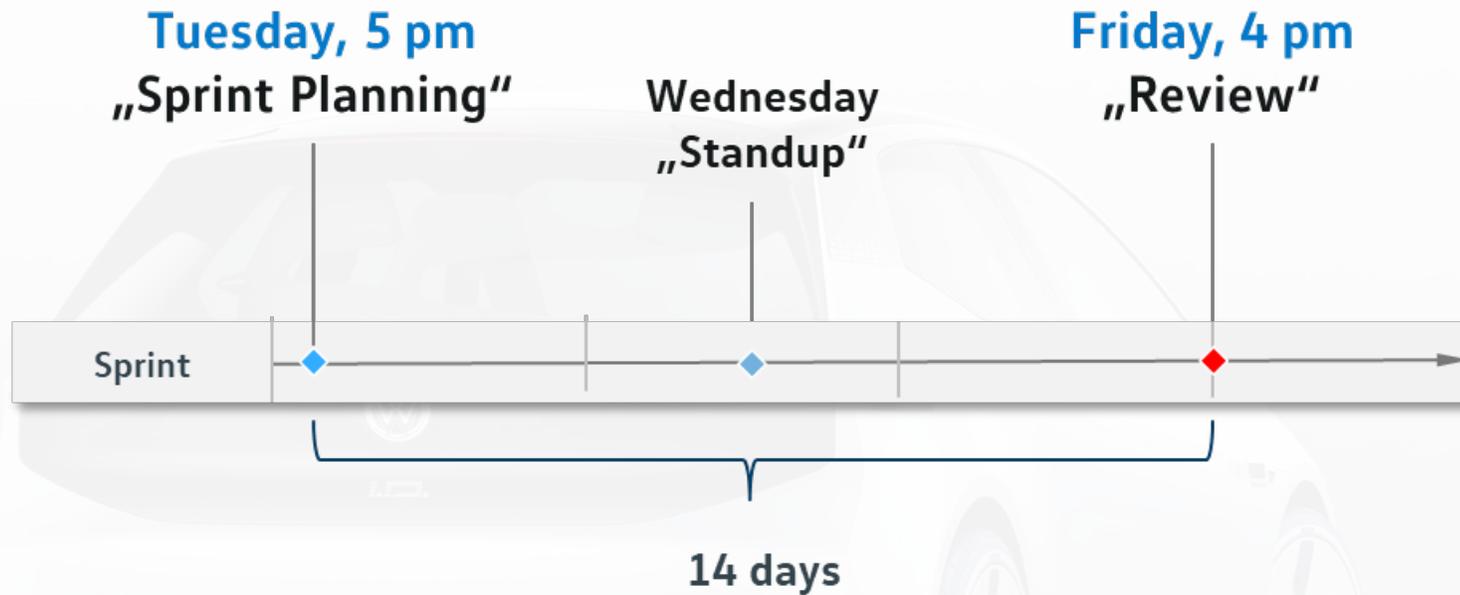
Development of an integrated platform architecture necessary in order to lower IT Production costs and enable Information services

Actual state: Fragmented IT/OT landscape

FIS, AEPS-A, ZBM, SCADA, Anja

MLO · PW · KB · LA · MO · FLO

Provider-specific platforms, e.g., ABBility, Mindsphere, etc.

| Complexity ↗ | Development costs ↗ | Personnel costs ↗ |
| Consolidation ↘ | Plant flexibility ↘ | Production stability ↘ |

Target state: Integrated platform architecture

VOLKSWAGEN — Group app store

PLM · SAP · DPP

Platform and data management

MLO · PW · KB · LA · MO · FLO

| Complexity ↘ | Development costs ↘ | Personnel costs ↘ |
| Consolidation ↗ | Plant flexibility ↗ | Production stability ↗ |