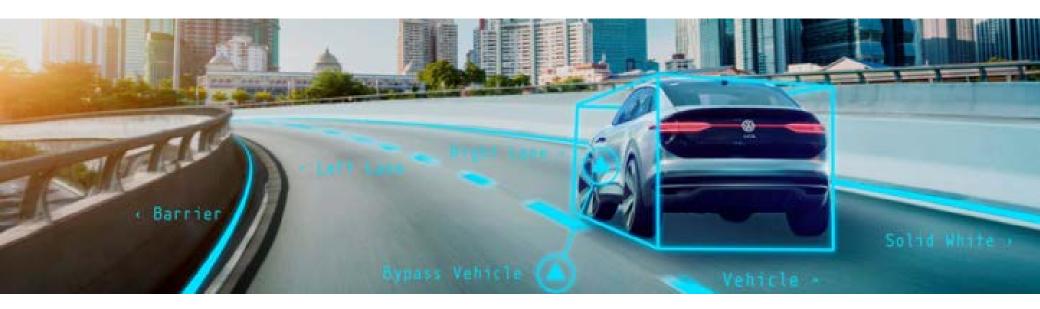
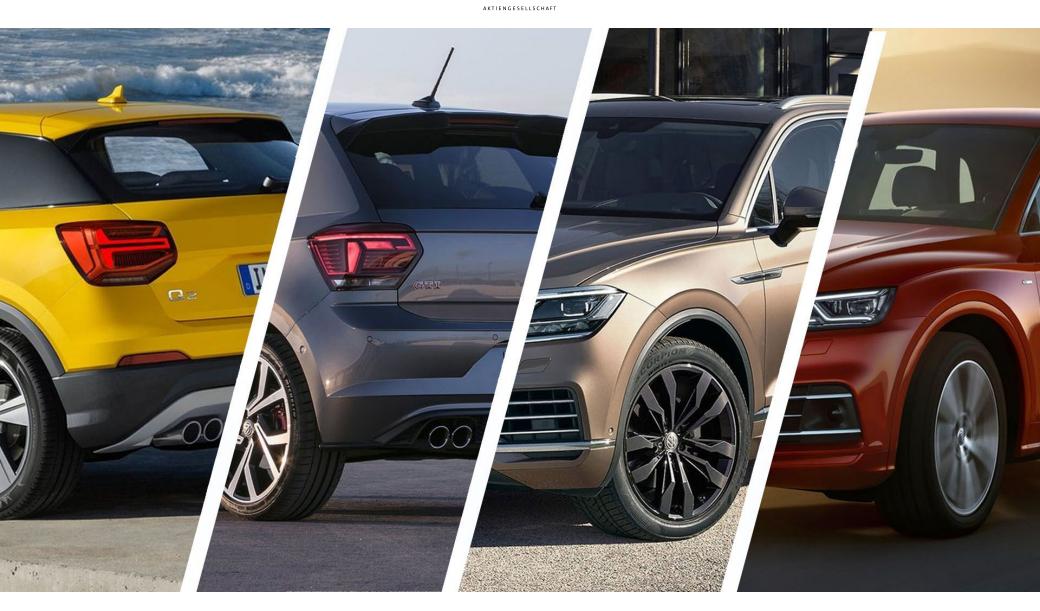
VOLKSWAGEN AKTIENGESELLSCHAFT



Digital Car & Services

Christian Senger Mitglied des Vorstands Digital Car & Service der Marke Volkswagen PKW

VOLKSWAGEN





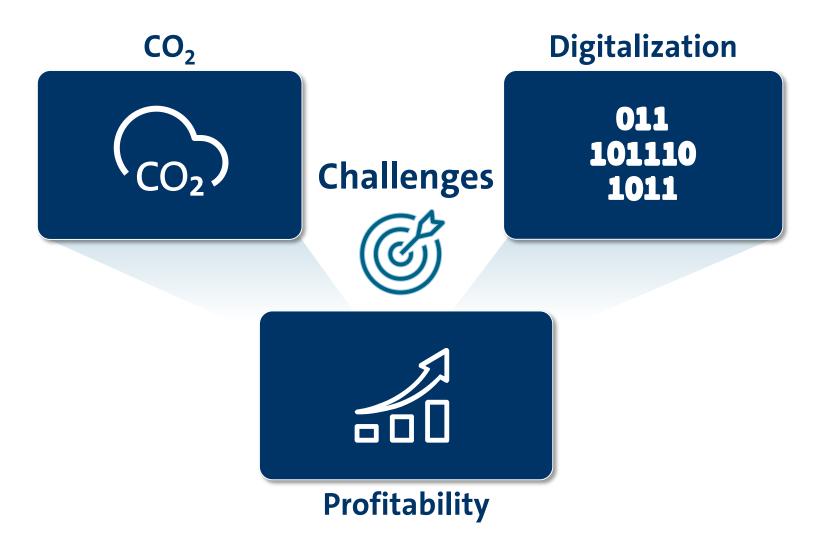
Platform strategy is key to technology leadership and scalability



Volkswagen is the pioneer for platform development



Challenges for the Automotive Industry





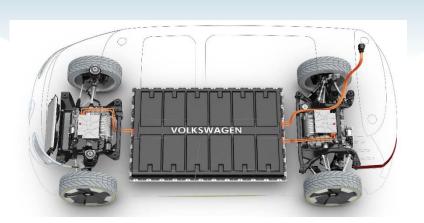
Challenges for the Automotive Industry





Continuing successful platform strategy with the MEB







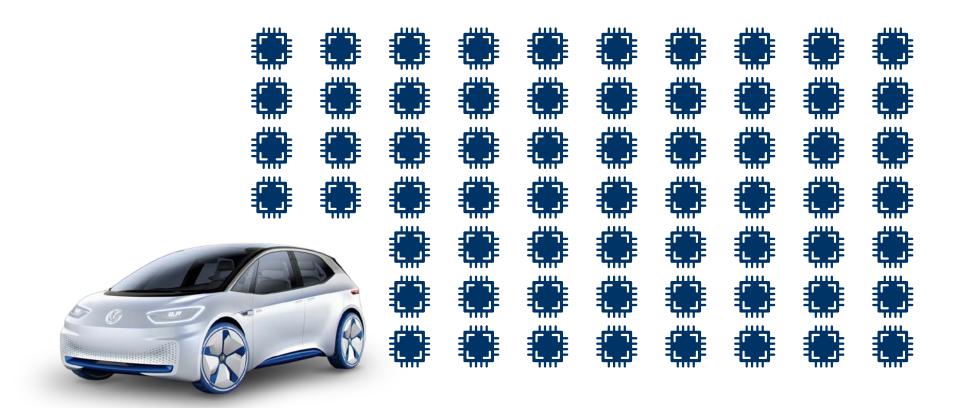


Challenges for the Automotive Industry



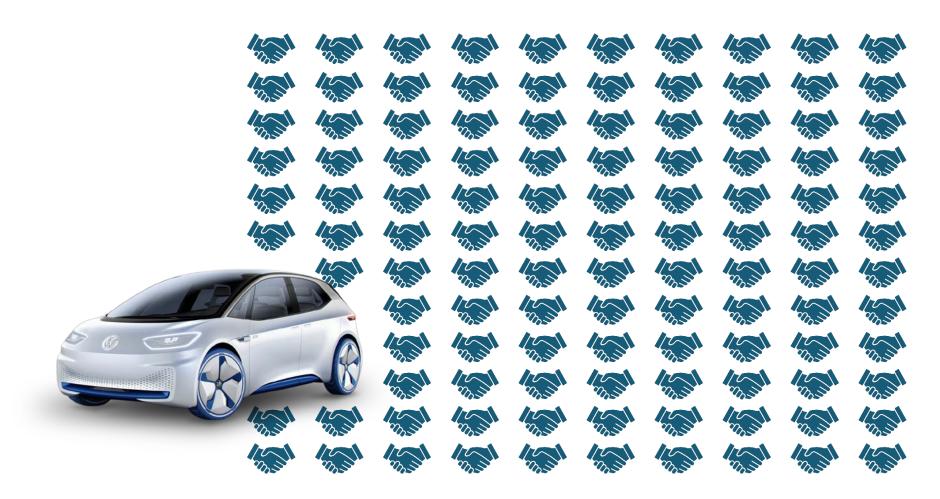


70 ECU's per car...





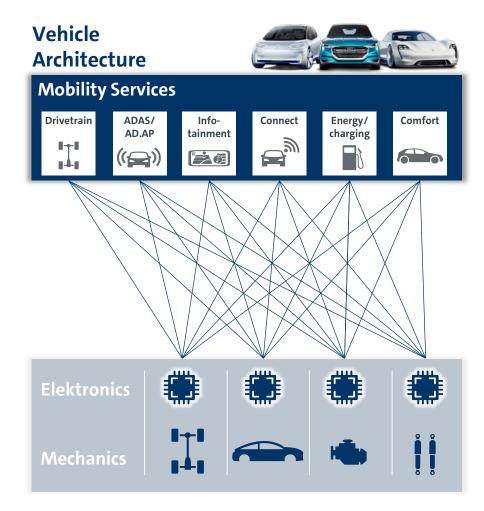
...~ 200 SW-Suppliers...





...Countless connections between ECU's and SW-Functions

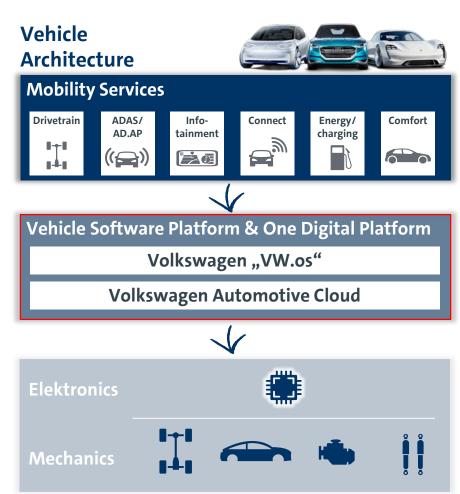






Solution approach: Following the IT industry and deploy functions on a Group-wide platform

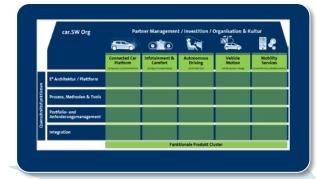






Is "the old industry" able to transform? We don't care that everybody says, that is impossible. We just do. And we have a plan.

Agile Organization



Consolidation



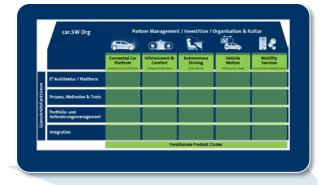
Staffing & Cooperations



Key Levers for car.SW Org.



Agile Organization

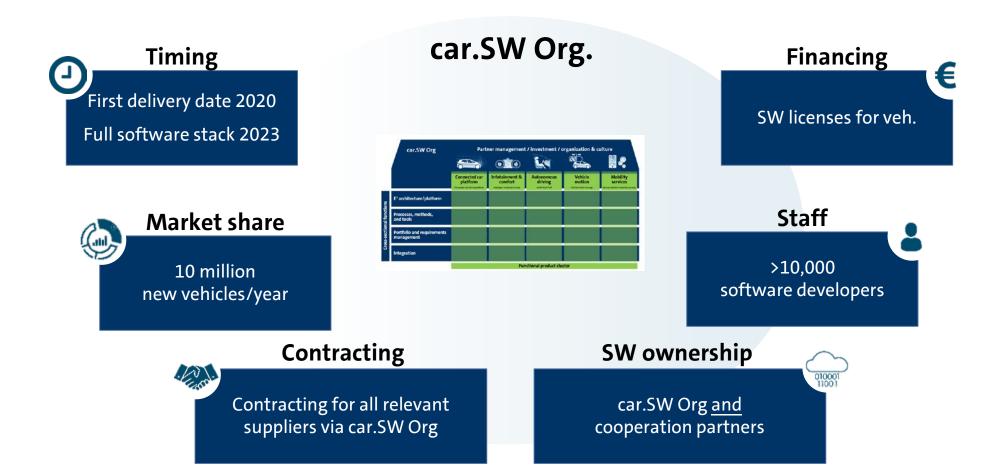




Key Levers for car.SW Org.

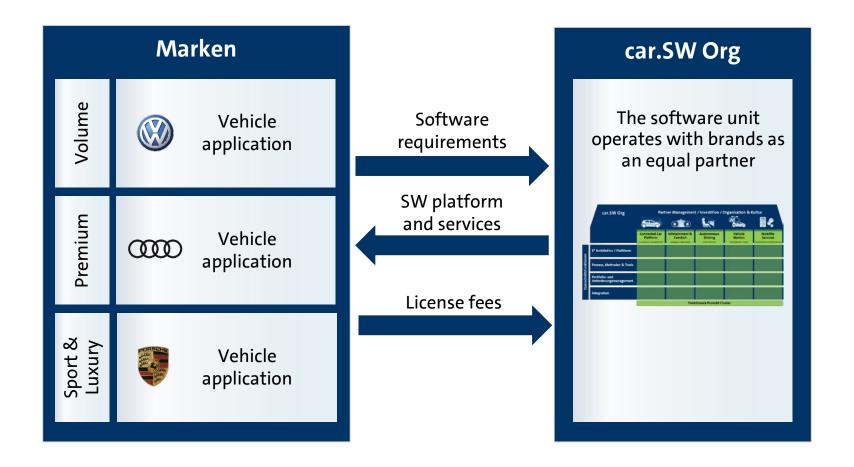


car.SW Org. as an own "software brand" within the VW Group





Collaboration model for car.SW Org. with brands





Car.SW Org. is structured in 5 product clusters and 4 cross-sectional functions

	car.SW Org.	Part	ner management	/ investment / o	organization & c	ulture
		Connected car platform Connected Car/ Device Platform	Infotainment & comfort Intelligent Cockpit & Body	Autonomous driving ADAP/HAF/FAS	Vehicle motion Vehicle Motion/ Energy	Mobility services Service Platform/ Mobility Services
Cross-sectional functions	E ³ architecture/platform					
	Processes, methods, and tools					
	Portfolio and requirements management					
Cro	Integration					
	Functional product clusters					



car.SW Org. is getting alive



CHRISTIAN SENGER Member of the Management Board responsible for Digital Car & Services,

Volkswagen Passenger Cars



Connected Car Platform



Transformation of the backends into the "One Device Platform" and standardization of the vehicle operating system for all brands



Infotainment & Comfort



Development of a crossbrand, standardized cockpit and body platform for all future E/E architectures – the "One Infotainment Platform"



Autonomous Driving



A cross-brand "One SW Stack" for driver assistance systems and highly automated driving, scalable from NCAP up to level 3+



Vehicle Motion



Development of software functions for powertrain, driving performance and charging technology combined with a highperformance computing platform



CHRISTOPH HARTUNG Volkswagen Passenger Cars

Mobility Services





Responsibility for the technology stack for developing mobility services and digital business models for all brands

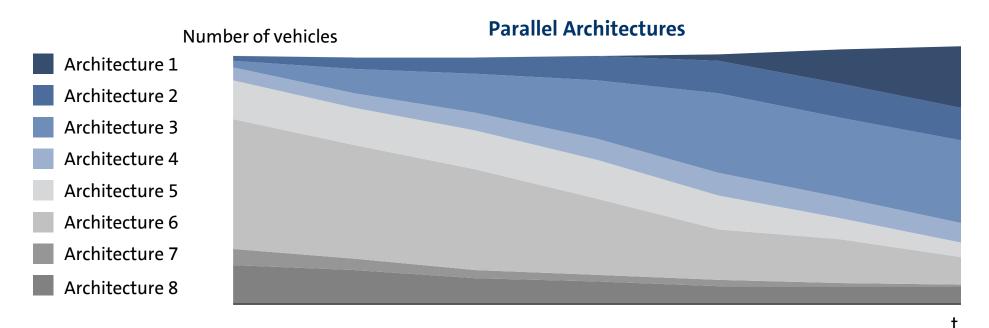




Key Levers for car.SW Org.

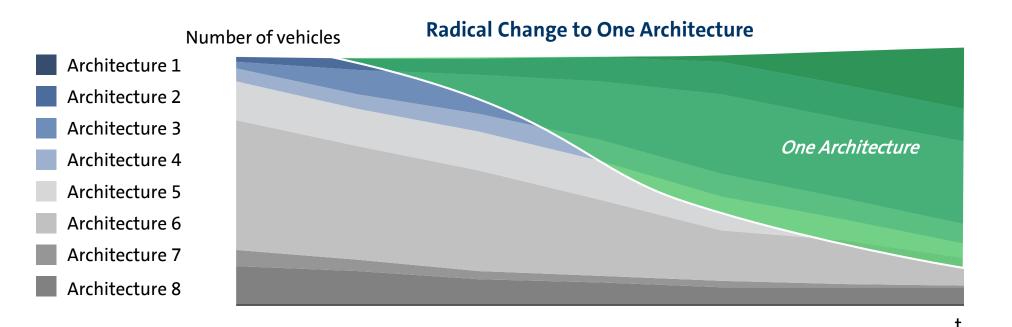


From eight...





From eight to one







Key Levers for car.SW Org.

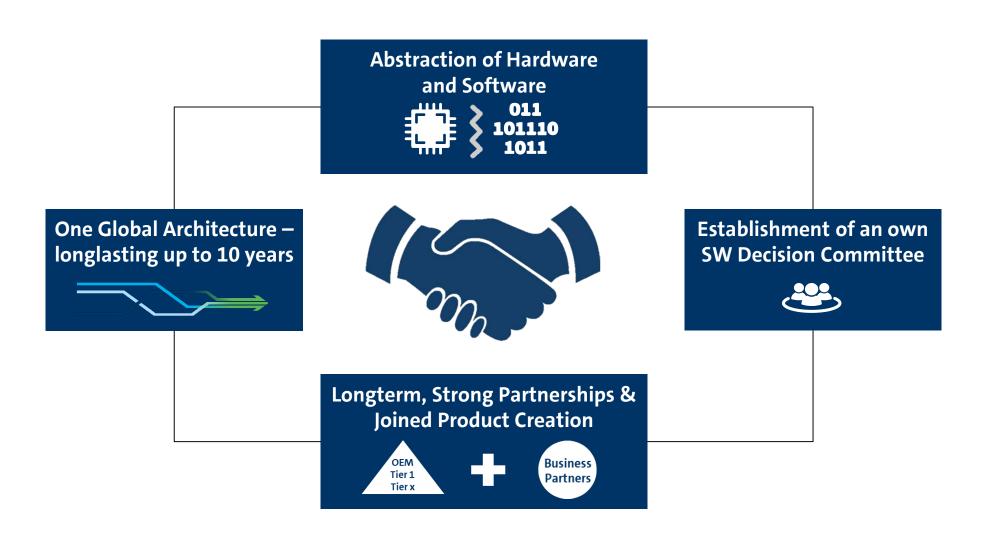


Bringing adequate IT competence into the car.SW Org.





Changing the cooperation model between car.SW Org. and Suppliers





Agile Organization



Consolidation



Staffing & Cooperations



The digital mind of mobility

