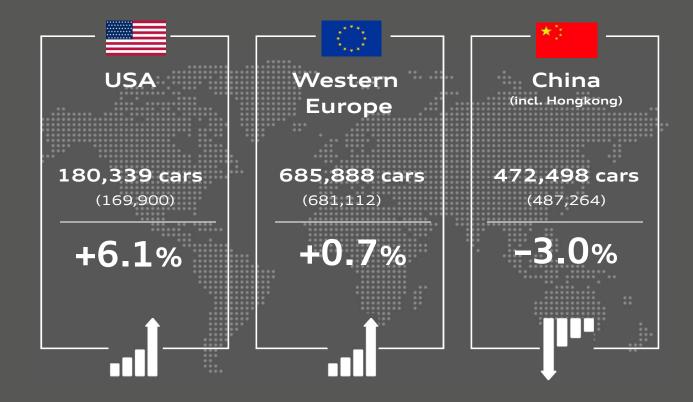




## Despite challenges and redirection in China, Audi keeps deliveries on a high level...

Audi deliveries to customers in units and percent (YTD 1-10/2017 vs. 1-10/2016)





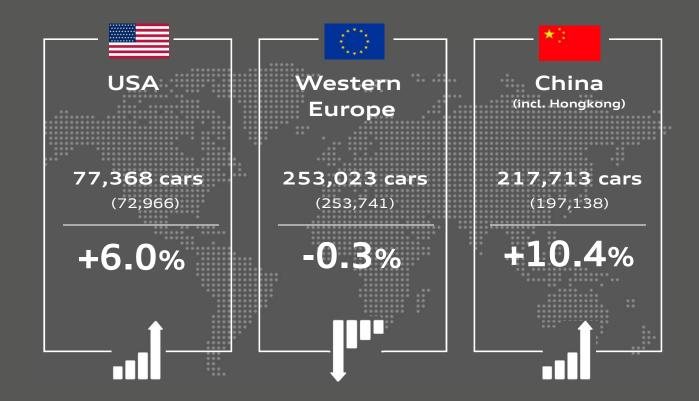


#### ...especially due to a strong sales performance in H2

Audi deliveries to customers in units and percent (YTD 7-10/2017 vs. 7-10/2016)

Worldwide 630,566 cars (606,247)







#### After strategic realignment Audi continues its growth story in China

Audi deliveries to customers in China (incl. Hongkong) in units (1-10/2017 vs. 2016)





#### Audi slightly increases deliveries in Western Europe...

Audi deliveries to customers in units and percent (1-10/2017 vs. 1-10/2016)





685,888 (681,112)

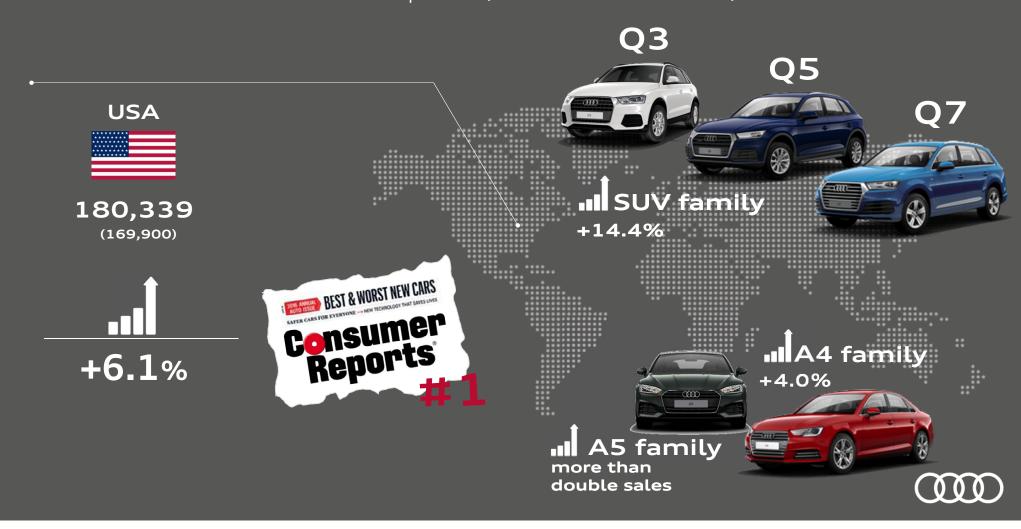




Iop 5 ma	arkets	
1	-10/2017	Δ
Germany	254,200	+0.1%
United Kingdom	152,413	-0.6%
Italy	57,758	+11.5%
France	52,128	-1.8%
Spain	46.815	+6.6%



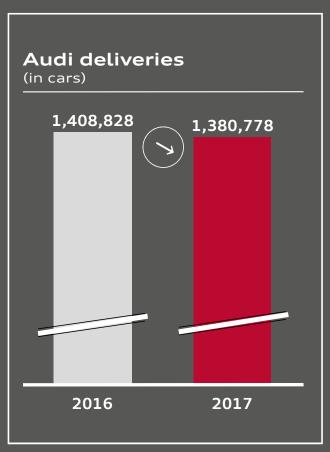
...and continues it's success story in the US with a significant volume growth Audi deliveries to customers in units and percent (1-10/2017 vs. 1-10/2016)

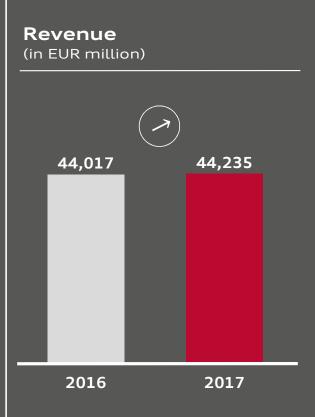


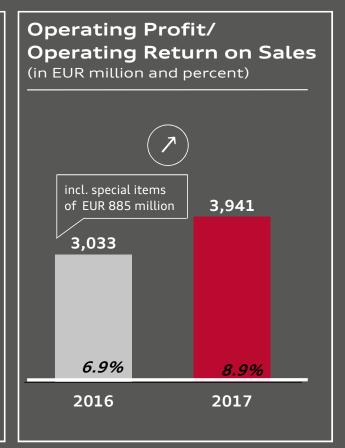




#### Q1-Q3/2017: Strong Operating Profit proves high earnings quality...

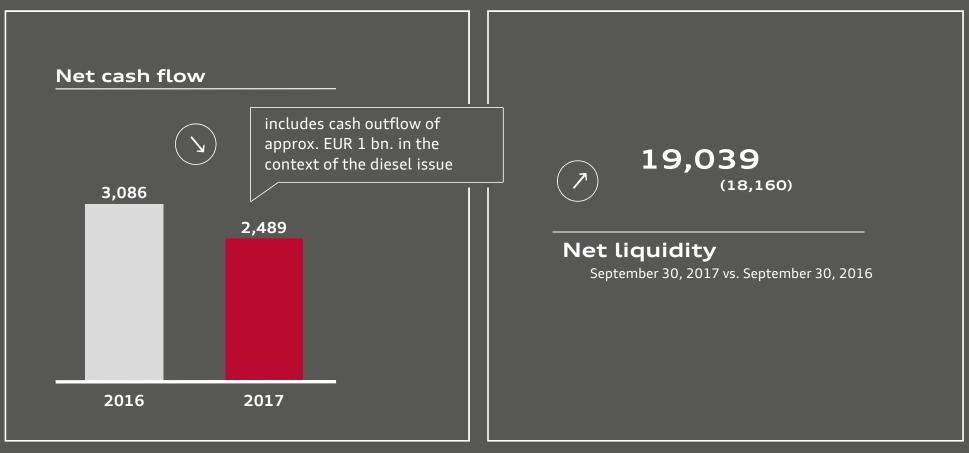






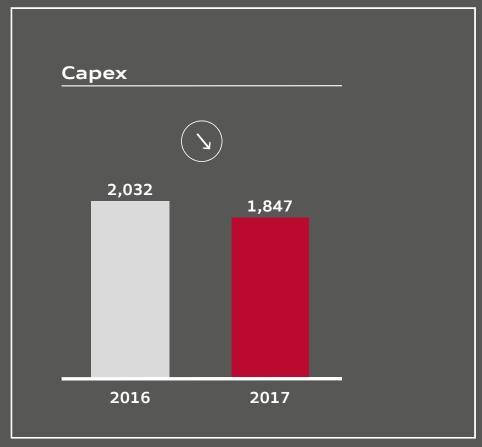


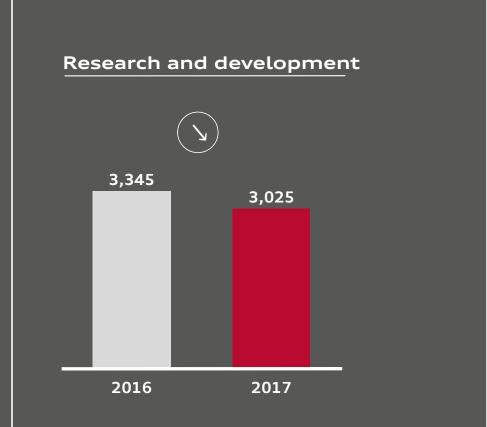
## ...and strong Cash flow even withstands high outflows due to the diesel issue





## We put a stronger focus on investment discipline and R&D efficiency







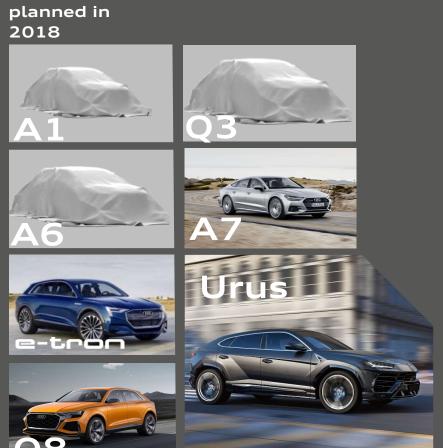
#### Guidance 2017

			Financial long term targets 2025
	Deliveries of cars of the Audi brand to customers	slight increase	
	Revenue	slight increase	
10%	Operating profit/ Operating return on sales	within the strategic target corridor of 8 to 10%	8 to 10%
ROI	Return on investment	within a range of 15 to 18%	21%
[0]	Net cash flow	positive, but significantly below previous year level due to outflows in the context of diesel issue	positive
	Ratio of capex	moderately above the strategic target corridor due to model start ups in higher segments	5.0 to 5.5%
<u>=</u>	Research and development ratio	slightly above the strategic target corridor of 6.0 to 6.5%	6.0 to 6.5%



#### Upcoming product launches will give further impetus for volume growth

# launched in 2016/2017

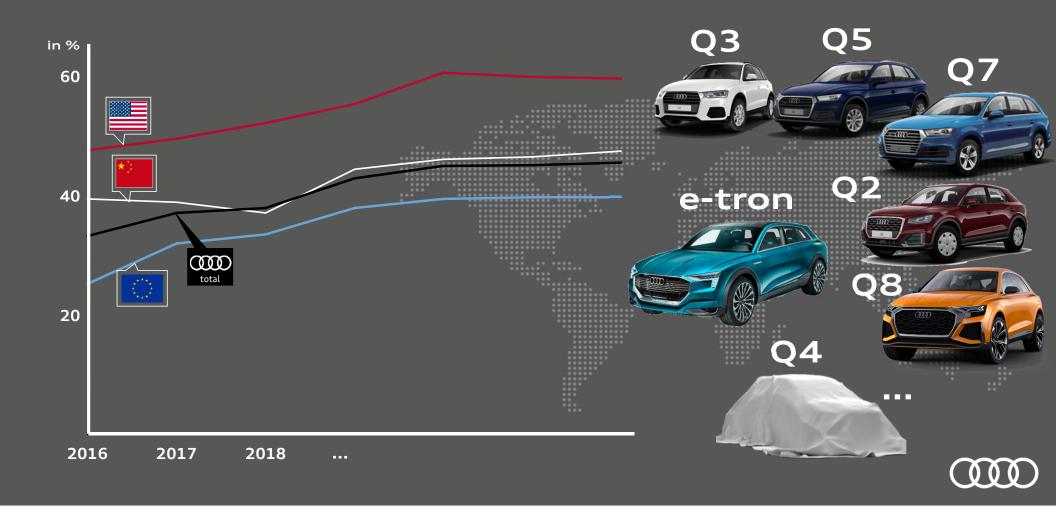




to come

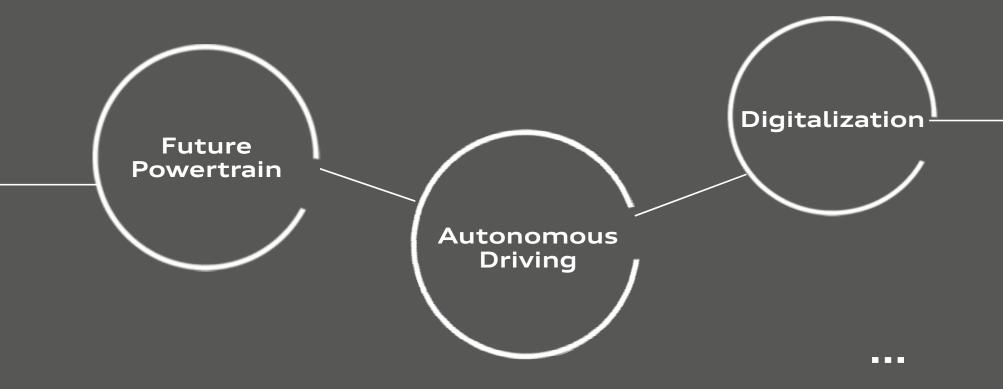


#### Already at a high level, we aim at even increasing our SUV-ratio



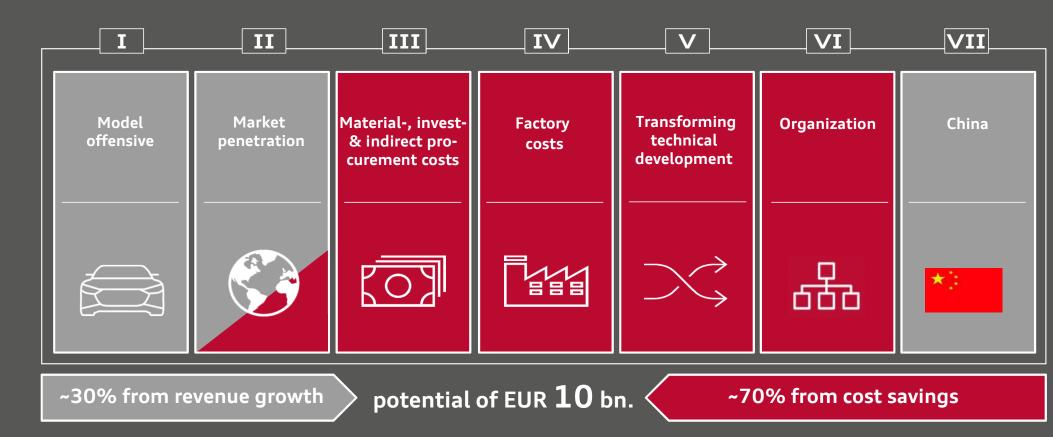
Coming up in 2018: With the Audi e-tron we will change the electric game with a range of more than

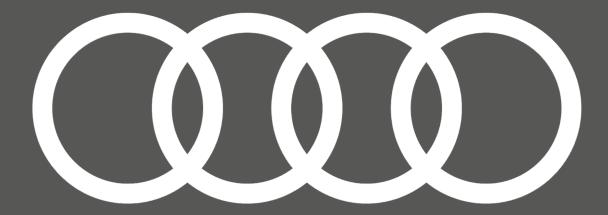
Focus areas of our strategy 2025 need to be financed...





#### ...and the "Angriffsplan" will help us to stabilize our margins



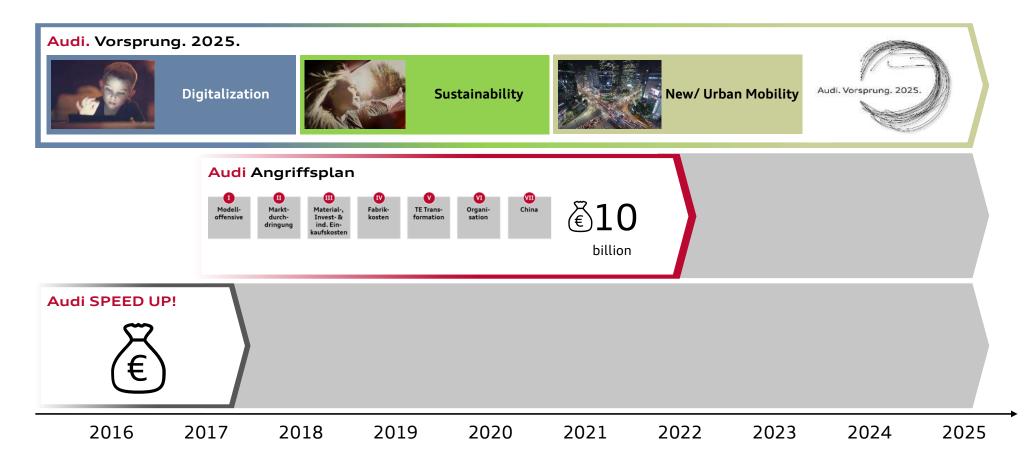


Vorsprung remains our promise!





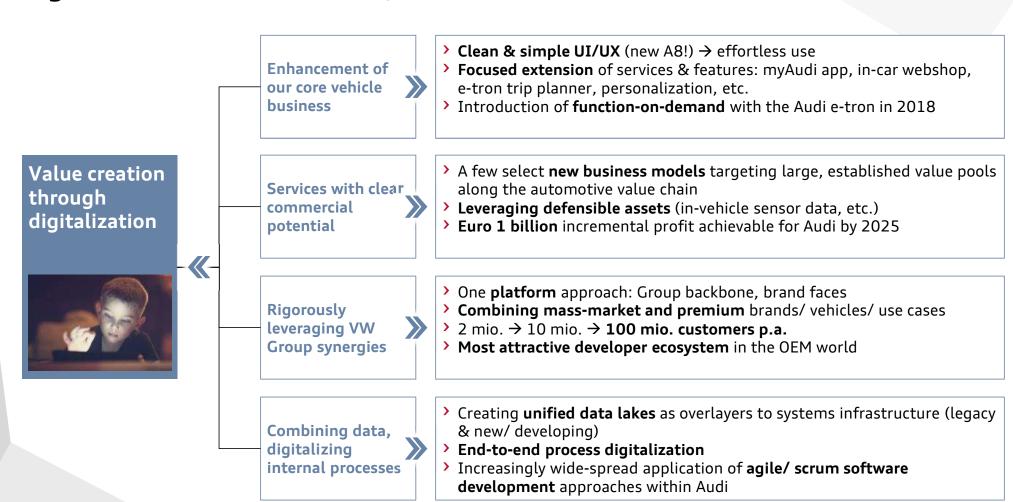
# The Audi Angriffsplan is the foundation for successfully implementing our Strategy 2025



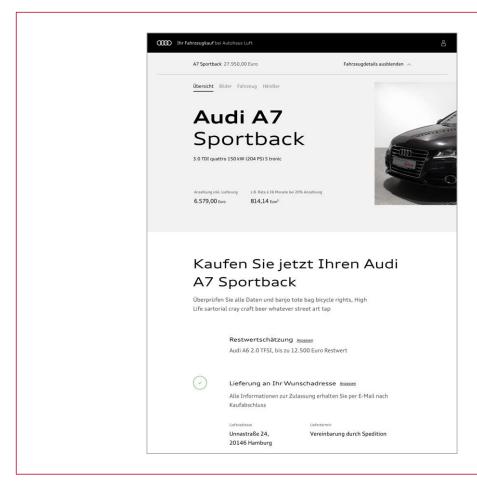
# The Audi Angriffsplan is the foundation for successfully implementing our Strategy 2025



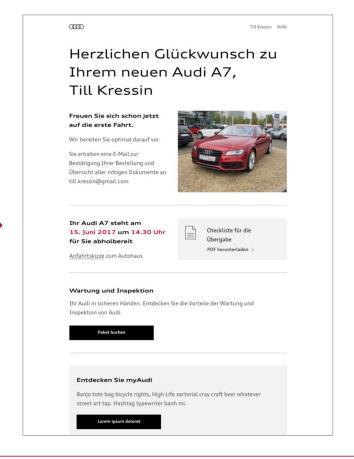
#### Audi's Strategy Pillar #1: Digitalization – effortless use, commercial success



#### Online Used-car platform – live since October 2017





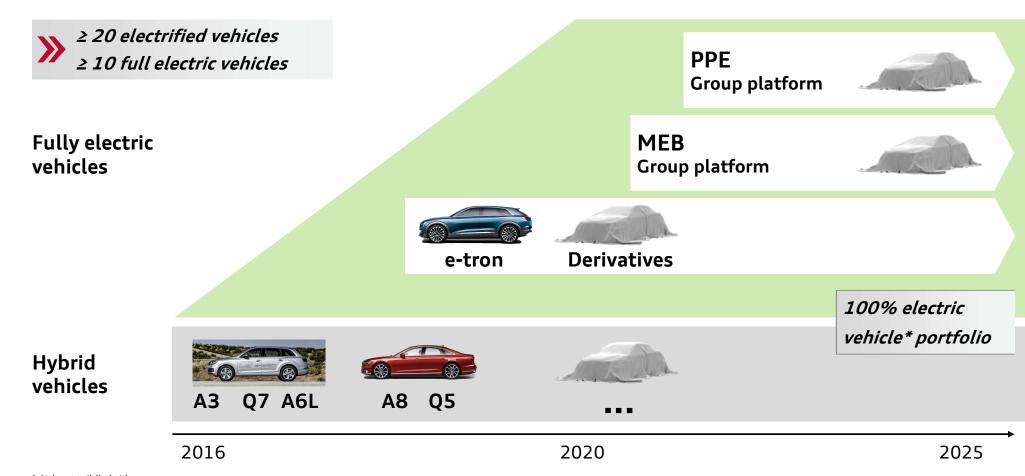


#### Audi's strategy pillar #2: Sustainability – making money with electrification

Tailored yet cost-> Split-platform approach: best vehicle per technology (ICEs, NEVs) effective platform leadership in customer value Move towards 100% use of Group EV platforms: PPE with PAG (-30%!), approach MEB with VW > Smart, low-cost derivatization Value creation Leveraging VW > VW Group collaboration and synergy capture across the entire battery **Group synergies** value chain with electric/ for EV batteries Coordination of procurement consistently leveraging VW Group scale, new energy starting from raw material sourcing vehicles > Clear allocation of competences/ know-how development Leadership in rapid **Europe: 400 fast-charging locations** with Ionity alliance by end of 2020 development of **USA: 290 locations with Electrify America** by end of 2019, technology in long-distance line with European approach > China: also moving forward aggressively ... charging networks **Technology** Unique strength in CNG as potential diesel 'bridging' > Small series production of **fuel cell** vehicles in early 2020s solutions for mix **E-fuels solutions** depending on cost, scalability and regulatory optimization over developments time

> Audi development lead within VW Group

## Growth of Audi's electrified vehicle portfolio through a synergistic platform strategy



<sup>\*</sup> At least mildhybrid

#### Audi together with other OEMs is driving the rapid development of longdistance charging networks

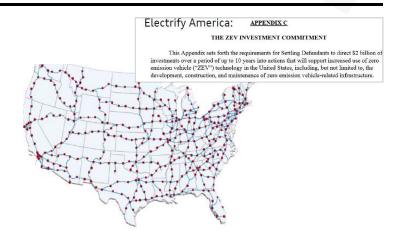
#### EUROPE 🚺



#### 400 locations until end 2020

- Several thousand charging points
- Up to 350kW per charging point (200-920 V)
- Several location partners like Shell, Tank&Rast, OMV got into IONITY as well

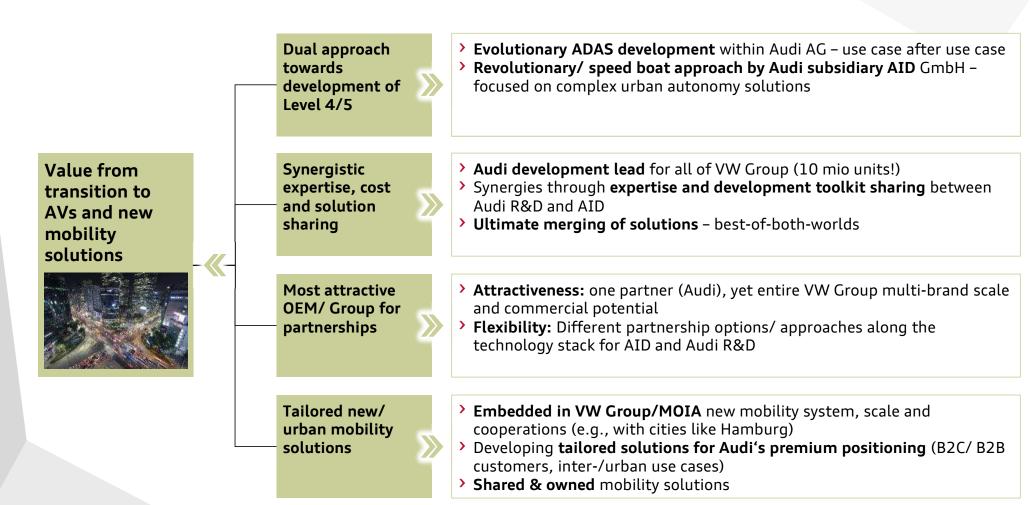




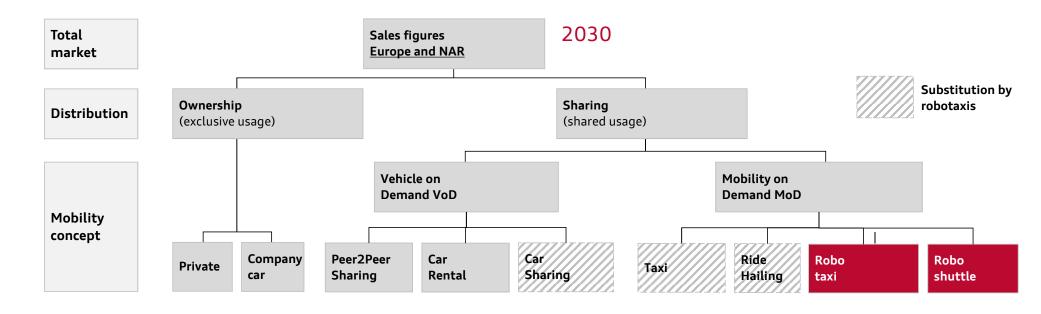
#### 290 locations until end 2020

- Technology approach analog Europe
- > Further extension planned

#### Audi's strategy pillar #3: Autonomous driving & new/ urban mobility solutions



## Until 2030 conventional mobility concepts will be largely substituted by robotaxis and shuttles



- Car Sharing, Taxis and Ride Hailing will be substituted by robotaxis
- Company cars will increasingly be replaced by mobility concepts for employees
- > Car rental has still significance in the interurbanen area

#### Strategic Mobility Partnership Hamburg – Start 2018

### Strategic Mobility Partnership with Hamburg

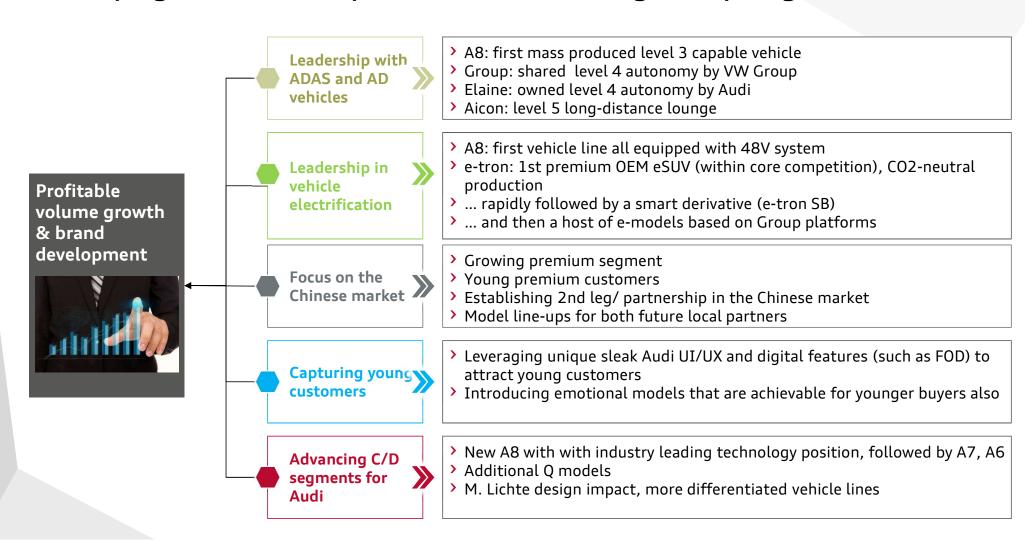
- Urban mobility concepts
- Intermodality
- > Traffic management
- Autonomous driving and parking
- Innovative vehicle concepts
- > Air monitoring initiative



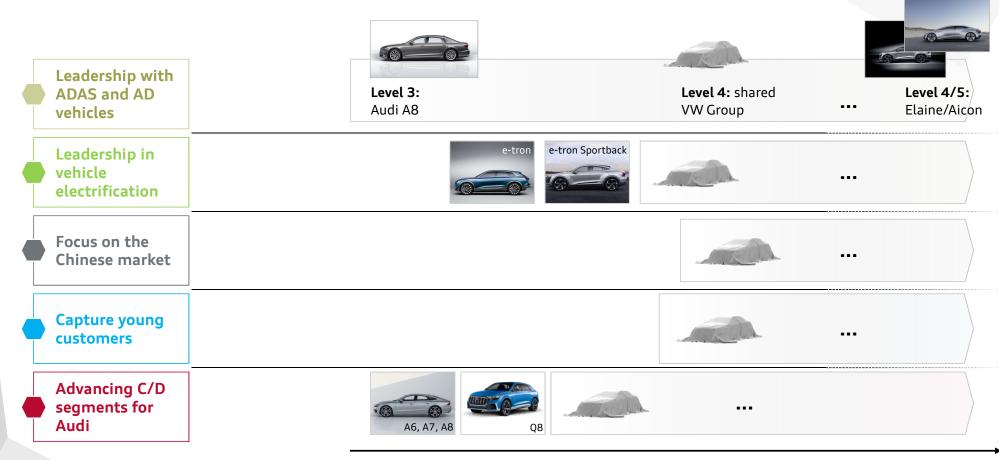
## Establishing a mobility provider based on ride hailing/ pooling

- Go live in 2018 with full electric vehicles
- Establishing a mobility provider and customer base as basis for further robotaxis
- Rides are booked via Smartphone App and shared with other passengers
- Algorithm optimizes driving routes to increase efficency and reduce detours
- Costs for the customer will be lower than taxi

#### Developing Audi's vehicle portfolio - reconfirming "Vorsprung durch Technik"



#### Audi's product roadmap is well aligned with our corporate & brand strategy



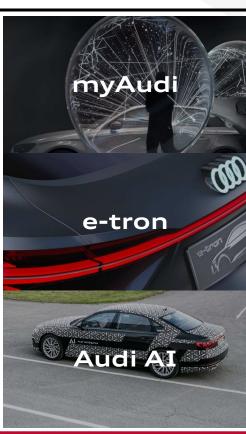
2017 2025 f.

# Audi's new strategy is translated in tangible value for our customers and we're already delivering against it — 'Vorsprung durch Technik'

Audi Origins Changes Audi tomorrow



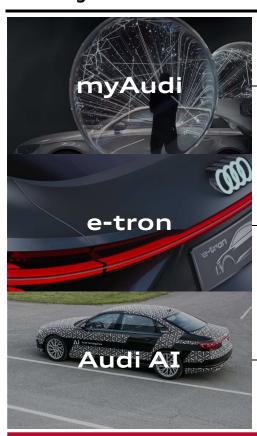




**TRANSFORMATION** 

#### Audi's new strategy is translated in tangible value for our customers and we're already delivering against it — 'Vorsprung durch Technik'

**Changes Audi Origins Audi tomorrow** 









Online-Used car platform live since October 2017

100 Audi VR Experience equipped dealers until end of 2017

IntroductionFoD with Audi e-tron (2018)









Audi g-tron powered with e-gas (2014)

≥ 20 fully/ partly electrified vehicles until 2025

Releasing h-tron small series







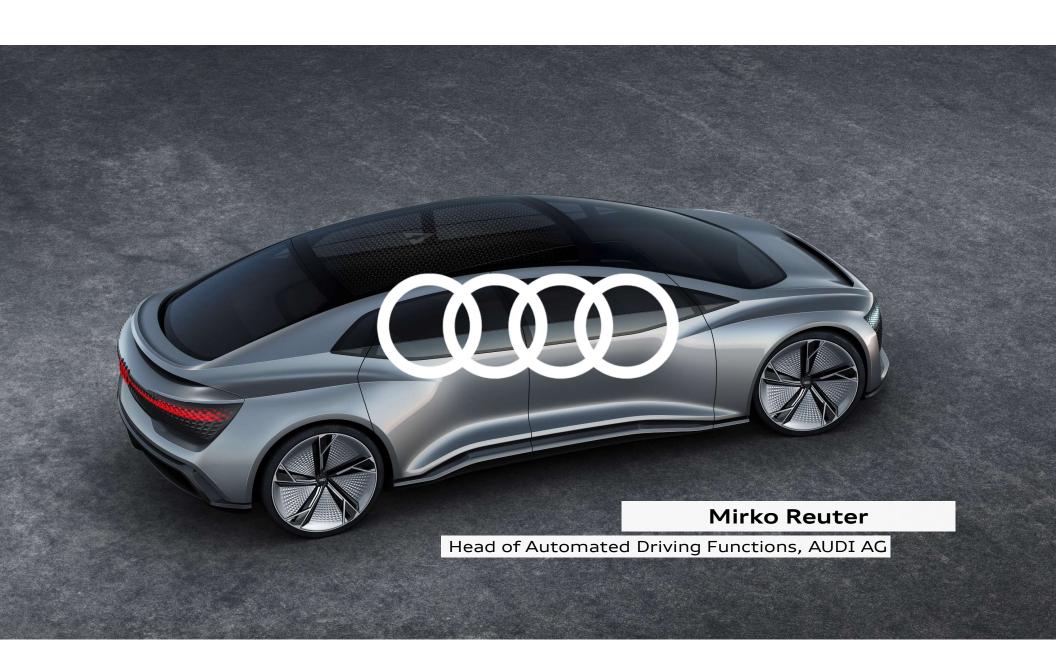


Piloted driving at level 3 in our new Audi A8 (2017)

AID GmbH for enabling Level 5 (founded 2017)

Personal Intelligent Assistant (PIA)

**TRANSFORMATION** 



#### achieved milestones



2009 Audi TT Salt lake Bonneville

2010 Audi TT **Pikes Peak**  **CES** 2013

Park pilot & traffic jam pilot Permission to test piloted driving in **Nevada** 

Aug. 2014

**P**ermission to test piloted driving in **Florida** 

Sept. 2014

**P**ermission to test piloted driving in **California** 

2014

The best performing piloted driving prototype in the world at the Hockenheimring San Francisco

to Las Vegas

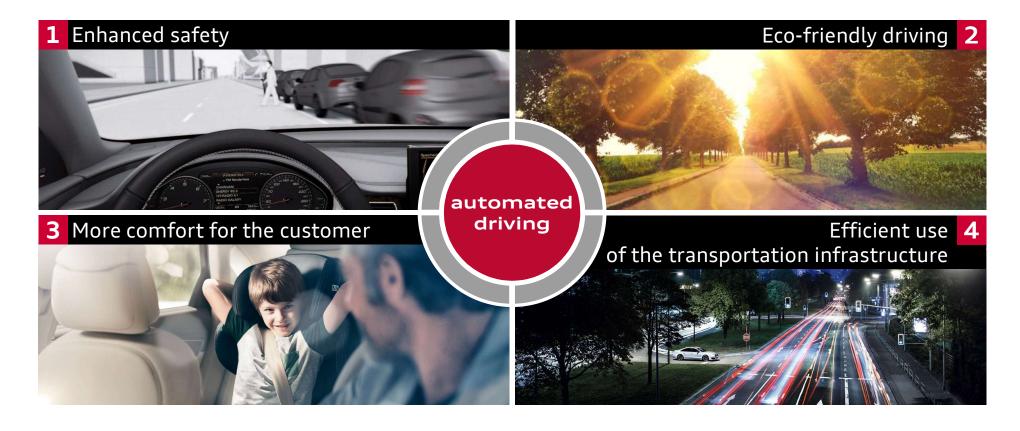
with Jack

(Highway

Pilot)



#### automated driving as an influence on megatrends





#### broad range of driver assistance functions already in production today

#### Standard features

- Hold assist
- > Audi pre sense basic
- Audi pre sense city
- Park assist rear
- Adjustable speed limiter
- Cruise control system
- Break recommendation function

#### Parking assistance package

- Surroundings camera
- Park assist

#### Tour assistance package

- Turn assist left
- Adaptive cruise control
- Audi active lane assist
- Audi pre sense front
- Obstacle avoidance assist
- Camera-based traffic sign recognition
- Predictive efficiency assistant
- Traffic jam assist

#### City assistance package

- Audi side assist
- > Exit warning
- > Audi pre sense rear
- Park assist plus
- > Rear cross-traffic assist
- > Reversing camera

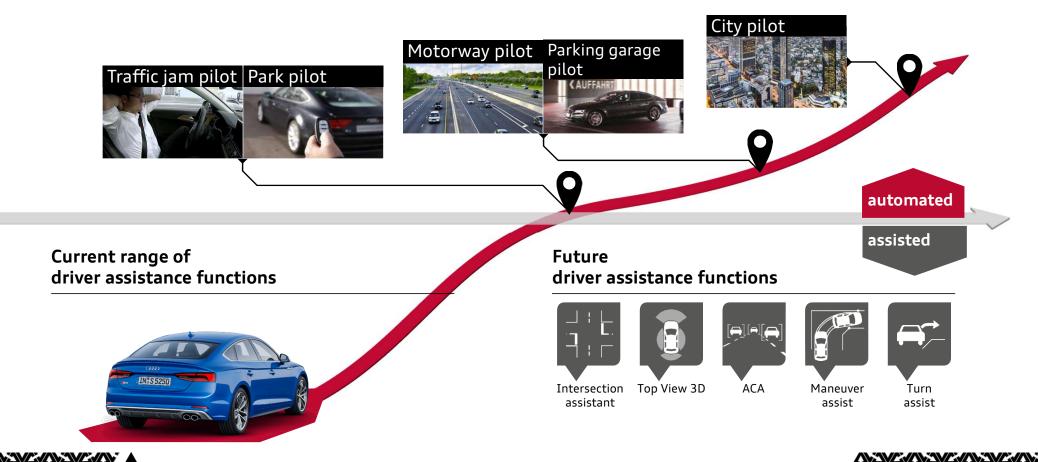
#### Additional options

- Trailer assist
- Main beam assist
- MMI navigation plus with MMI touch
- Night vision assistant

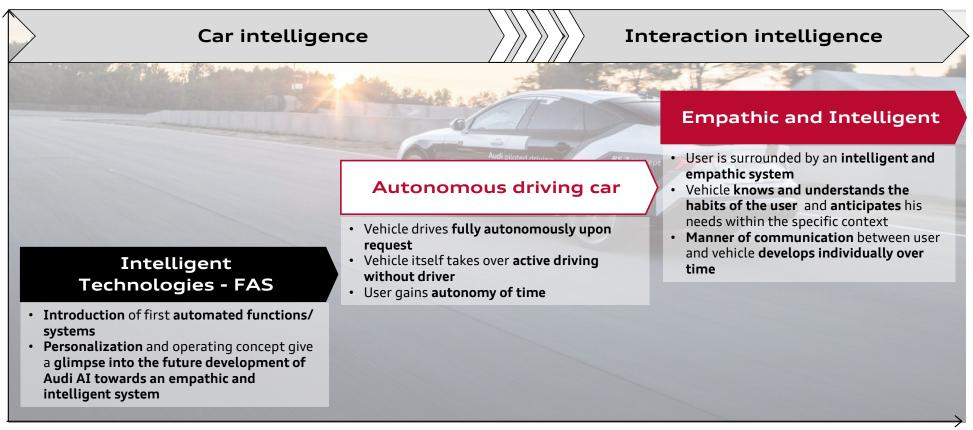




## evolutionary advanced development driver assistance & automated functions



#### **A**udi **I**ntelligence

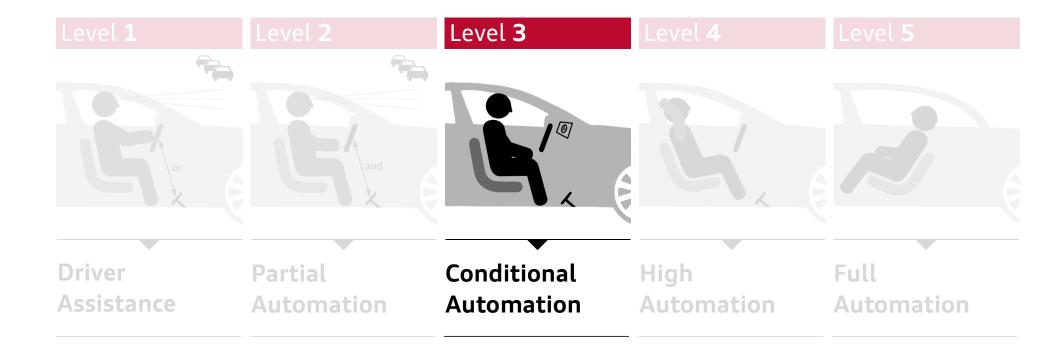


Yesterday to the Future



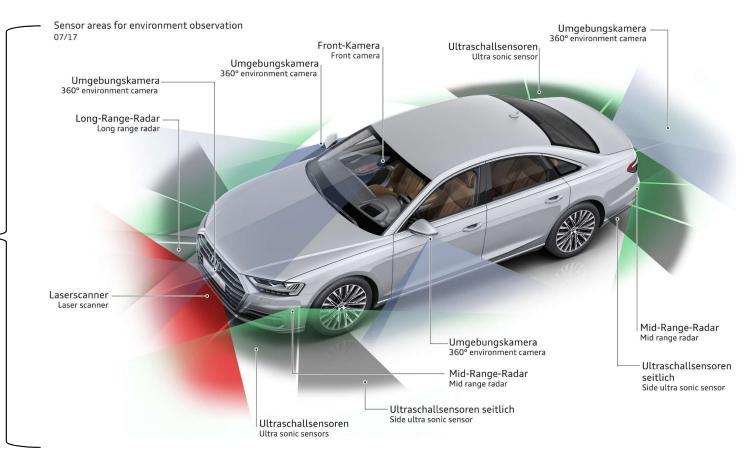
#### levels of driving automation (SAE international)

each evolutionary stage will relieve the driver more





central driver assistance control unit \_\_\_ (zFAS)





In 2018 we will gradually start to put the automated functions into series production.

# Legal framework (road traffic laws) Technical regulations (type approval / homologation)



In 2018 we will gradually start to put the automated functions into series production.

#### Legal framework

(road traffic laws)



National road traffic laws regulate the behaviour of the driver on public roads.

Conditional automation: The driver needs to have the ability to control his vehicle even if he is not performing the driving task. National traffic legislation in different countries is currently amended to allow the use of Level 3 systems.



#### In 2018 we will gradually start to put the automated functions into series production.

> Type approval leads to the technical certification of the vehicle.

The automaker must fulfil various technical regulations in order to gain the necessary

approvals.

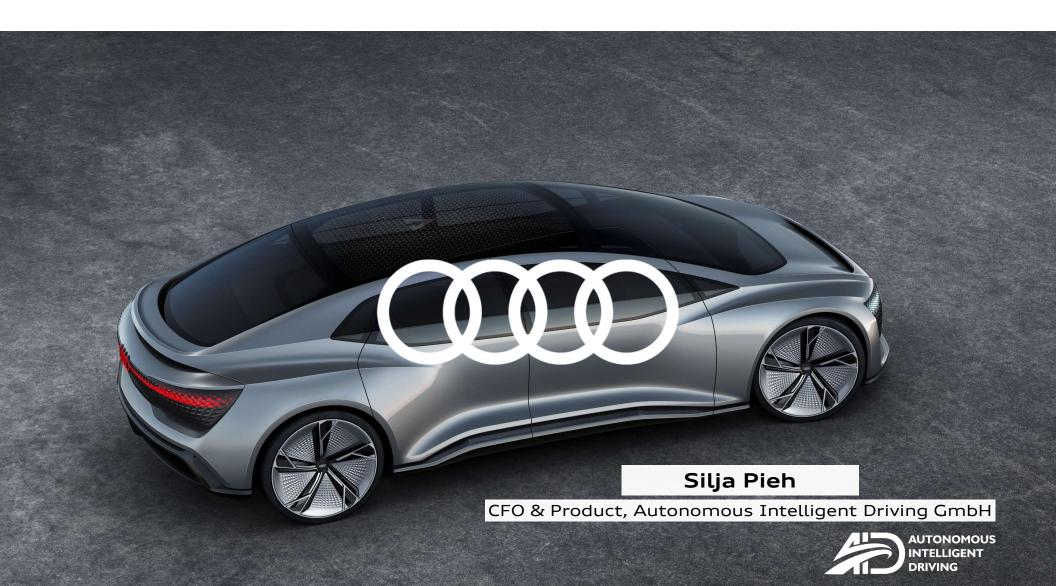
Focus: Technical regulation for the steering equipment (UN-R 79):

- At present UN-R 79 is currently under amendment to allow continuous steering by the system.
- > The amendment is necessary to address various aspects of automated driving.
- Currently the regulation permits continuous steering without holding the steering wheel only at speeds not exceeding 10 km/h (6.2 mph).

### **Technical regulations** (type approval / homologation)







#### "AUTONOMOUS INTELLIGENT DRIVING GMBH" (AID) FOCUSES ON FAST-TRACKING THE DEVELOPMENT OF AUTONOMOUS VEHICLES IN URBAN AREAS

Audi AG has been a key player in the development of self-driving technology and acts as lead developer in the Volkswagen Group

Launched in 03/2017 as a 100% subsidiary of AUDI AG, AID is the center of competence for autonomous driving in the urban area of the Volkswagen Group

The technology is to be used in models of the various brands of the Group





#### **SELF-IMAGE OF AUTONOMOUS INTELLIGENT DRIVING GMBH**

#### **MISSION STATEMENT**



By 2021, enable mobility services to drive fully autonomously in urban environments. In the future, enable everyone – shared and owned cars – to drive fully autonomously.

#### WHAT WE DO



We develop the full software and data service stack together with a hardware specification to enable autonomous driving

#### **OUR COMPANY VALUES**



Act fast

Be safe – take risk

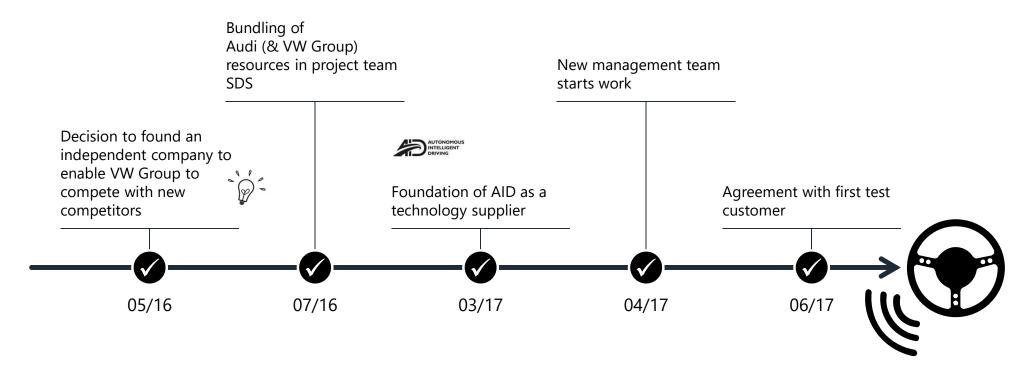
Show passion

Succeed as a team



#### WHAT HAPPENED SO FAR (UNTIL OCTOBER 2017)

#### IN THE FIRST YEAR RESOURCES WERE POOLED ACROSS AUDI / VW GROUP AND THE NEW COMPANY WAS STARTED





#### AID IS CREATING A TRUE STARTUP ATMOSPHERE IN THE HEART OF MUNICH

#### THE TEAM IS GROWING DAILY



We bring together experts from all over the world to work in the spirit of a startup at our head office in Munich

#### **MANAGEMENT TEAM**



Karlheinz Wurm CEO & ENGINEERING



Silja Pieh CFO & PRODUCT



**Dr. Gunther Bös**CHRO



Alexandre Haag CTO

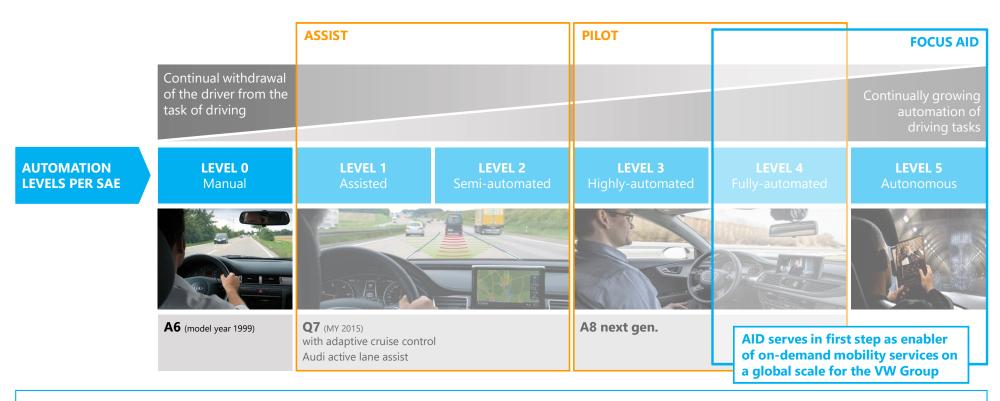




Top-location in central Munich, modern innovative work space, state of the art building



#### **AID IS LEAPFROGGING TO LEVEL 4+ DIRECTLY**

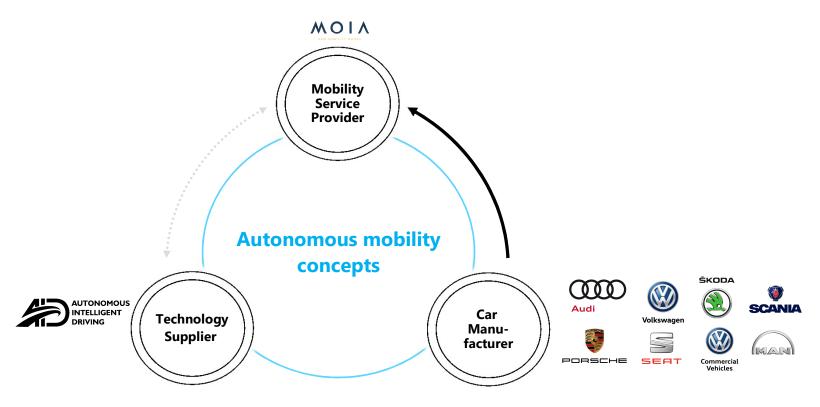


» Initially focused on urban environment and mobility services, our software is also designed to get integrated in ownership cars of the Volkswagen Group



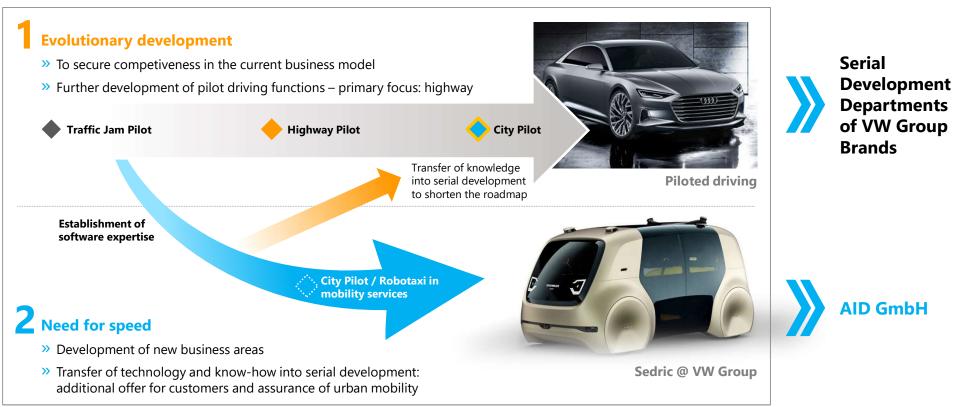
## ROLE OF AUTONOMOUS INTELLIGENT DRIVING GMBH IS TECHNOLOGY SUPPLIER

AID WILL ENABLE AUDI & VW GROUP FOR AUTONOMOUS MOBILITY AND COUNTER THE NEW COMPETITION



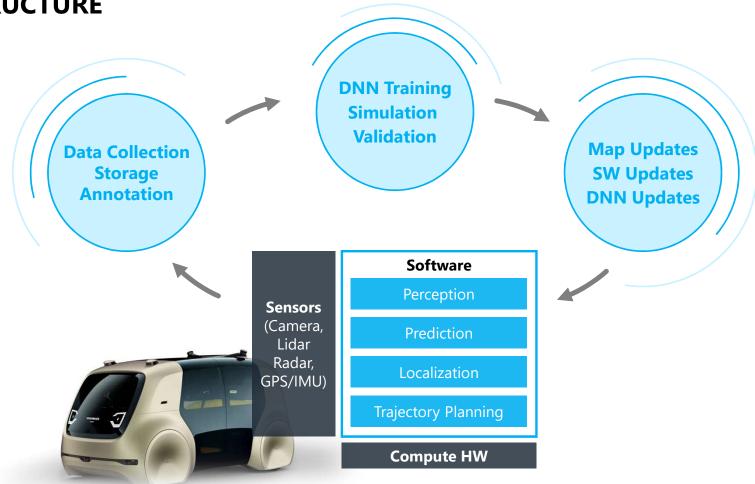


#### **DEVELOPMENT OF AUTONOMOUS DRIVING TECHNOLOGY IN VW GROUP**





KEY ACTIVITIES OF AID INCLUDE SOFTWARE ENGINEERING AND INFRASTRUCTURE





#### **Evercore ISI Fieldtrip**

December 6th, 2017

