VOLKSWAGEN

AKTIENGESELLSCHAFT

Leading the Transformation.

Dr. Herbert Diess

Chairman of the Board of Management, Volkswagen AG

CAPITAL MARKETS DAY 2019



DISCLAIMER

The following presentations contain forward-looking statements and information on the business development of the Volkswagen Group. These statements may be spoken or written and can be recognized by terms such as "expects", "anticipates", "intends", "plans", "believes", "seeks", "estimates", "will" or words with similar meaning. These statements are based on assumptions, which we have made on the basis of the information available to us and which we consider to be realistic at the time of going to press. These assumptions relate in particular to the development of the economies of individual countries and markets, the regulatory framework and the development of the automotive industry. Therefore the estimates given involve a degree of risk, and the actual developments may differ from those forecast. The Volkswagen Group currently faces additional risks and uncertainty related to pending claims and investigations of Volkswagen Group members in a number of jurisdictions in connection with findings of irregularities relating to exhaust emissions from diesel engines in certain Volkswagen Group vehicles. The degree to which the Volkswagen Group may be negatively affected by these ongoing claims and investigations remains uncertain.

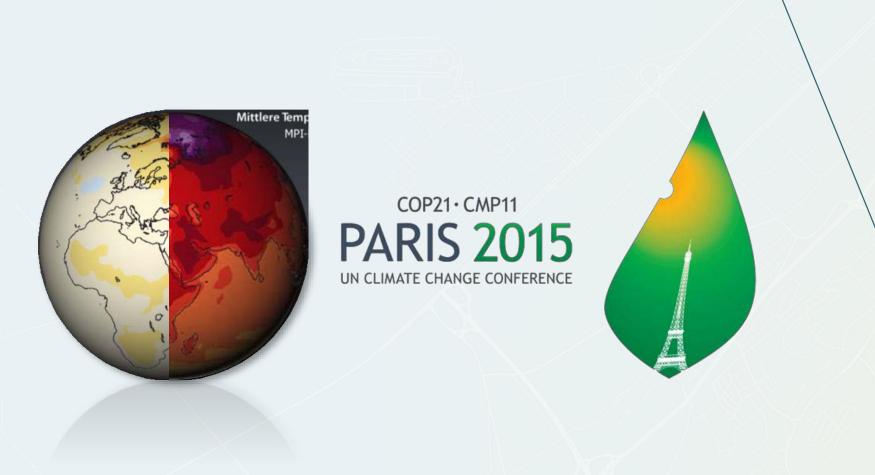
Consequently, a negative impact relating to ongoing claims or investigations, any unexpected fall in demand or economic stagnation in our key sales markets, such as in Western Europe (and especially Germany) or in the USA, Brazil or China, and trade disputes among major trading partners will have a corresponding impact on the development of our business. The same applies in the event of a significant shift in current exchange rates in particular relative to the US dollar, sterling, yen, Brazilian real, Chinese renminbi and Czech koruna.

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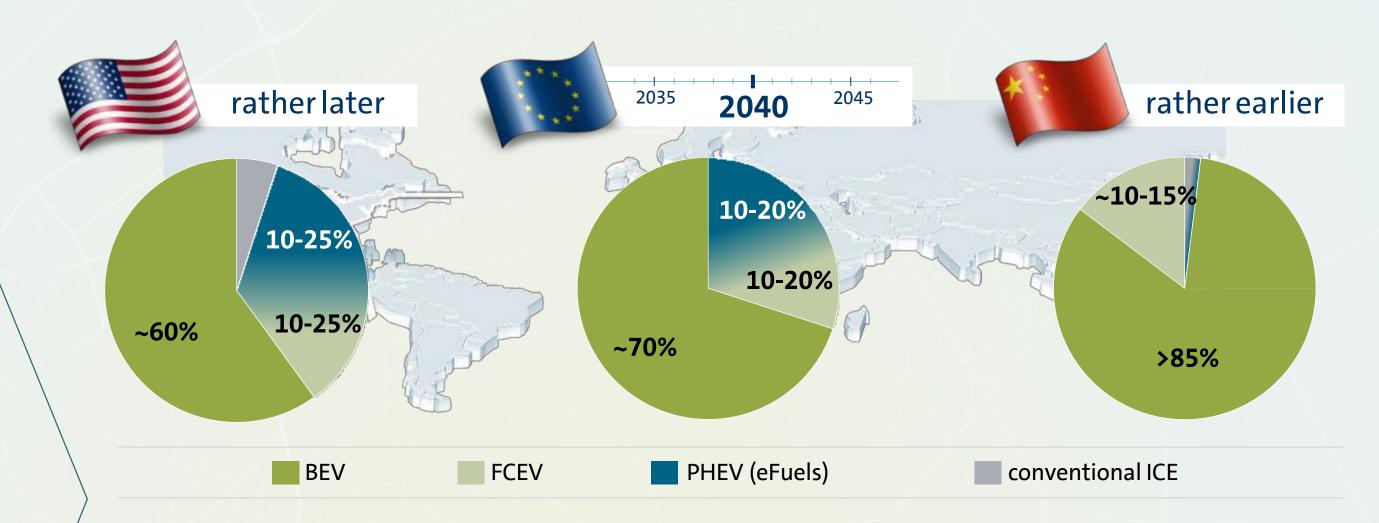
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E-MOBILITY IS THE ONLY WAY FORWARD TO ACHIEVE CLIMATE TARGETS



Our Target:
 CO₂ neutral fleet by 2050

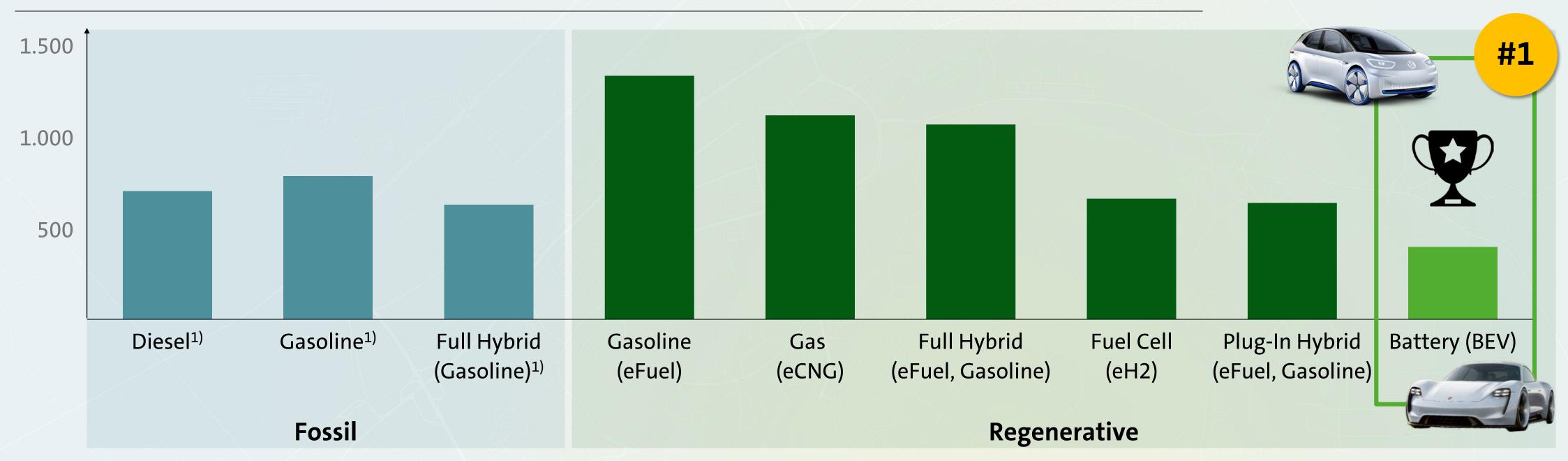


- Increase share of future technologies Focus E-Mobility
- Implementation of further measures to become CO₂ neutral



PRIMARY ENERGY DEMAND IS LOWEST WITH BEVS

PRIMARY ENERGY REQUIREMENT IN WH/KM FOR LIFECYCLE



THE MODEL OF THE ENERGY BALANCE LIFECYCLE

CO₂ NEUTRAL

Vehicle development

Vehicle production

Fuel production

Fuel consumption

Recycling

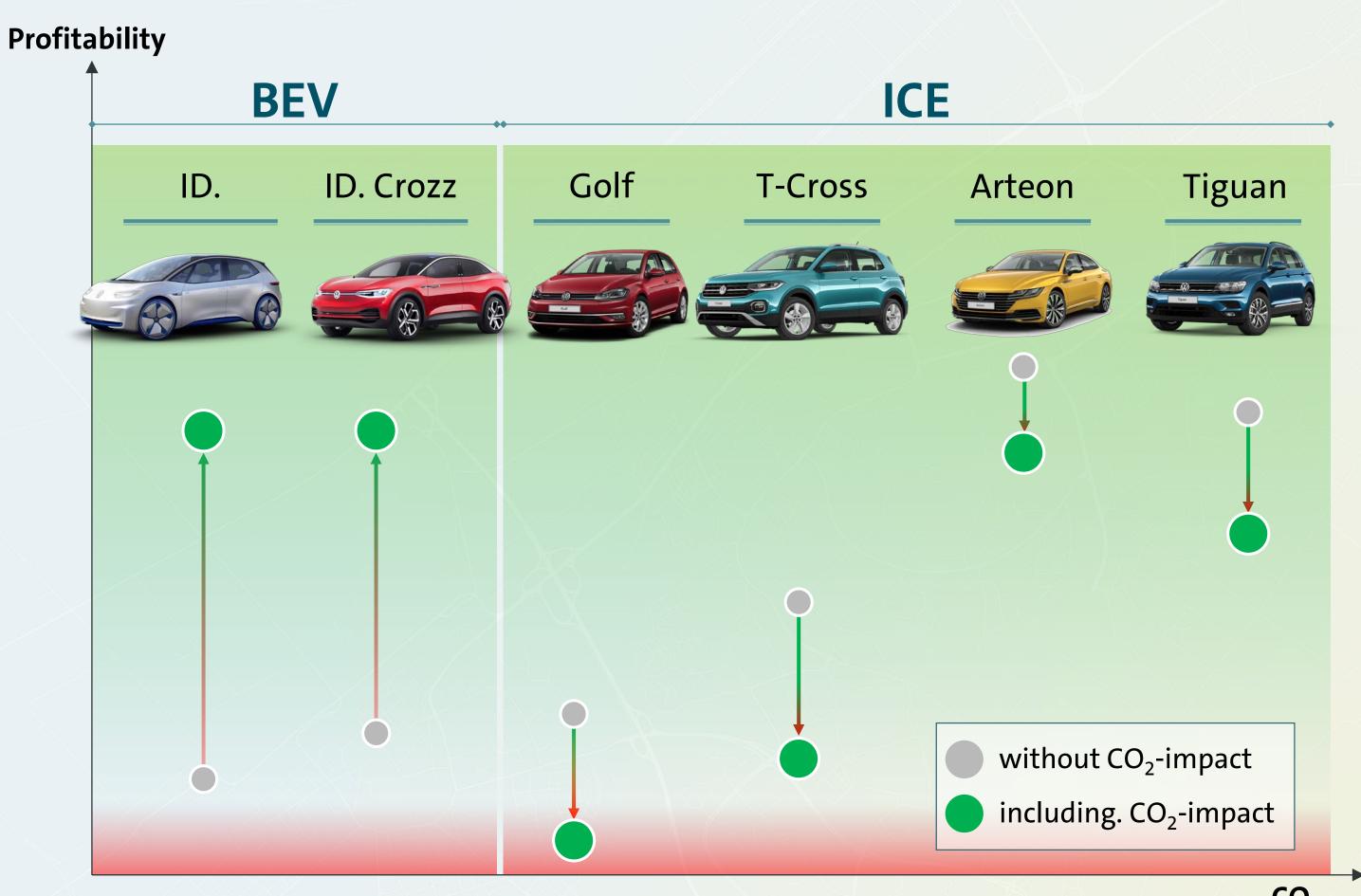


BEVS ARE FIRST CHOICE AS THE MOST COST EFFICIENT SOLUTION FOR CO₂ REDUCTION

MEASURES FOR CO₂ REDUCTION IN €/G CO₂ 95€/gCO₂ Diesel ICE EU7 Gasoline **Gasoline ICE Gasoline ICE BEV BEV** Plug-In-Hybrid **ICE Hybrid** Mild-Hybrid MEB 2nd MEB 1st Generation Generation



CO₂ FLEET TARGETS HAVE CHANGED PRODUCT PROFITABILITY

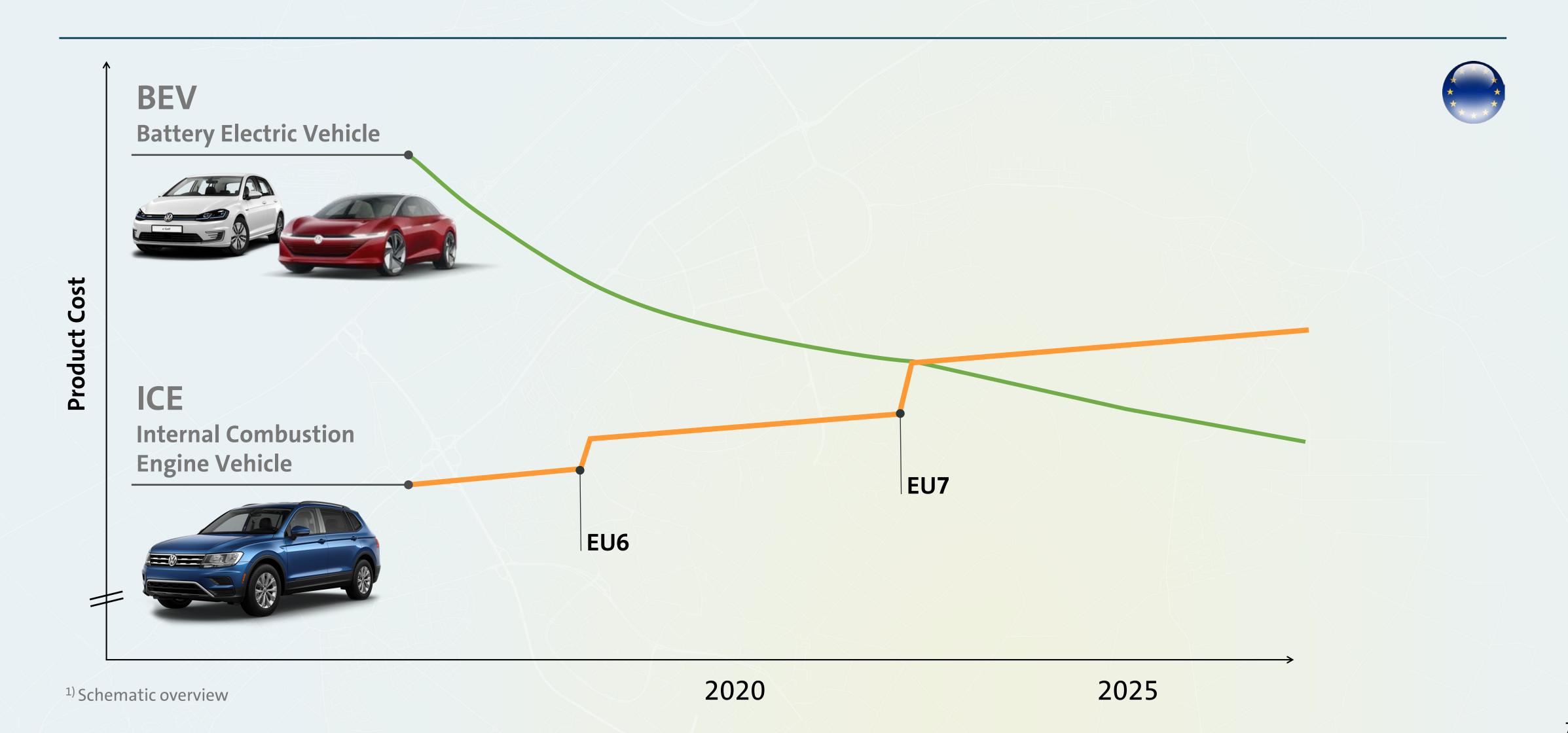


IMPACT ON PRODUCT DECISIONS:

- TRANSITION PERIOD: ICES STILL MORE PROFITABLE
- RISING COSTS OF CO2
 COMPLIANCE NEGATIVELY
 IMPACT ICE PROFITABILITY
- BEVS NECESSARY FOR CO₂
 COMPLIANCE
- INCREASING VOLUME OF BEVS
 DRIVES PROFITABILITY



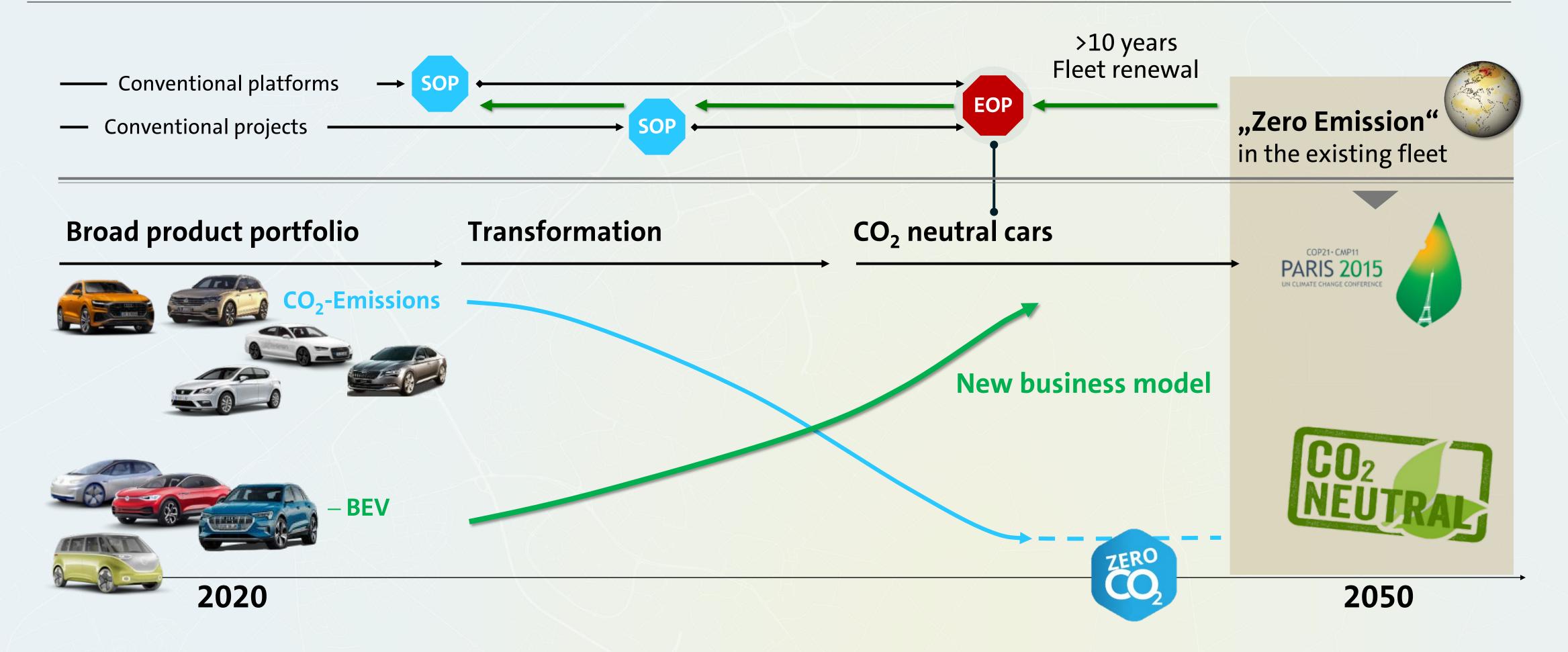
BEV AND ICE COSTS AND MARGINS ARE CONVERGING SOON¹⁾





E-MOBILITY TRANSFORMATION IS REFLECTED IN OUR CORPORATE PLANNING

PARIS IMPLICATIONS AND TRANSFORMATION PATH





DEDICATED PLATFORMS (MEB/PPE) GUARANTEE SUPERIOR CUSTOMER EXPERIENCE, SCALE AND VERSATILITY

SCALABLE TECHNOLOGY



Long wheelbase short overhangs



Spacious interior for driver & passengers



No center tunnel



Various bodystyles



Big wheels



Rear-wheel & four-wheel drive



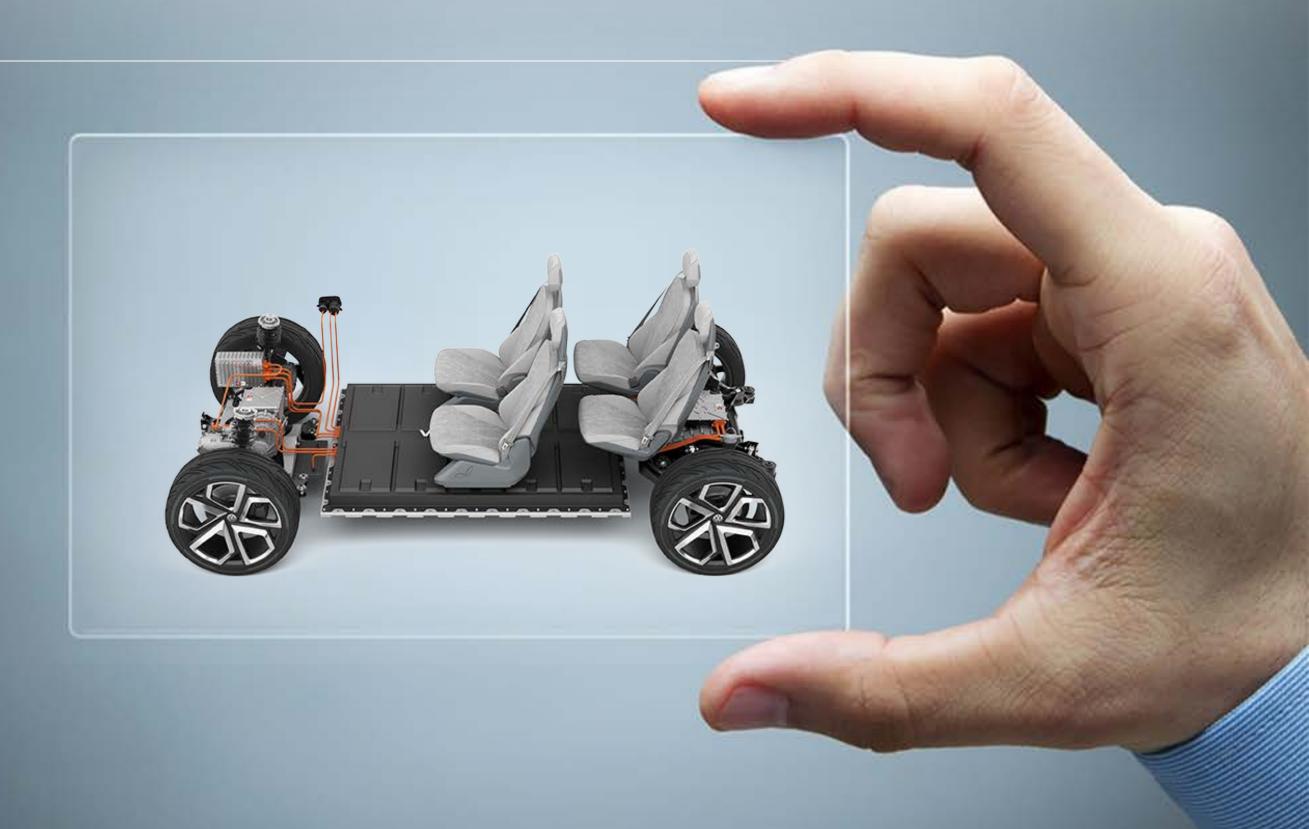
Central computing unit



Trunk volume
~ ICE



New Design





OUR E-MOBILITY STRATEGY COMES TOP DOWN...





SUMMARY E-MOBILITY STRATEGY

- Only way to meet Paris climate target
- Most cost efficient way to meet fleet targets
- Dedicated platforms put Volkswagen in pole position
- Volume in China and Group guarantees scale effects
- Multi-brand plants provide efficiencies
- Top down strategy (premium → volume)
- Holistic customer focus: dealers well prepared, infrastructure in progress, affordable
- Battery supply secured

Fully reflected in corporate planning

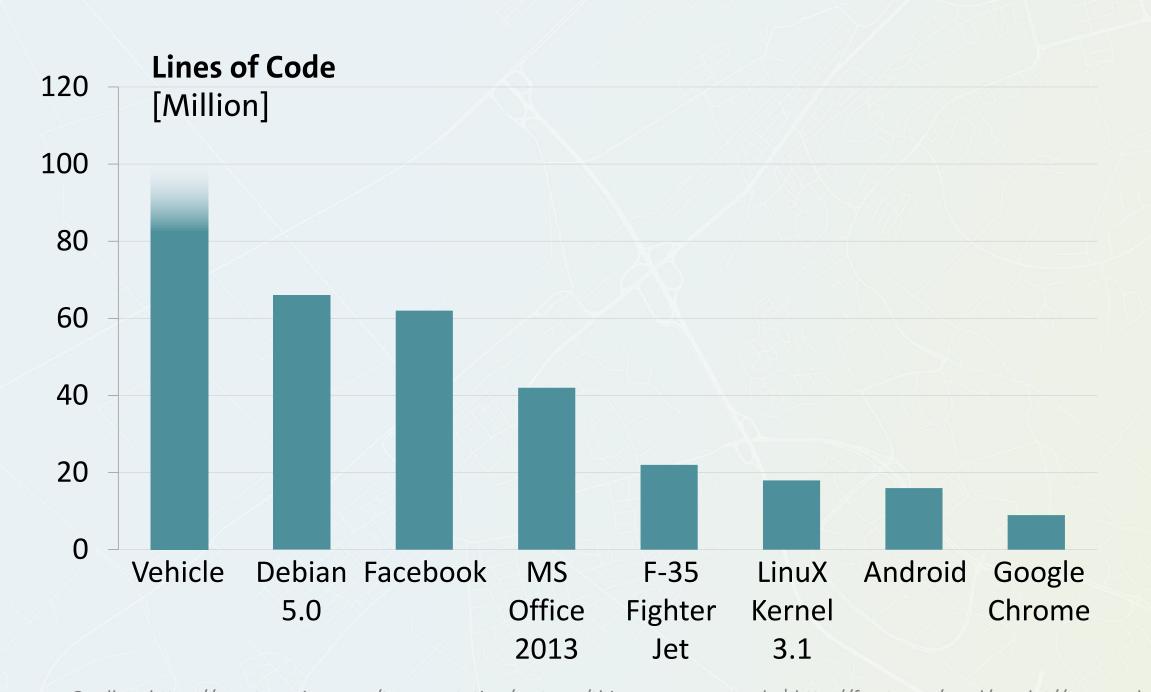




THE SOFTWARE CHANGE

Today

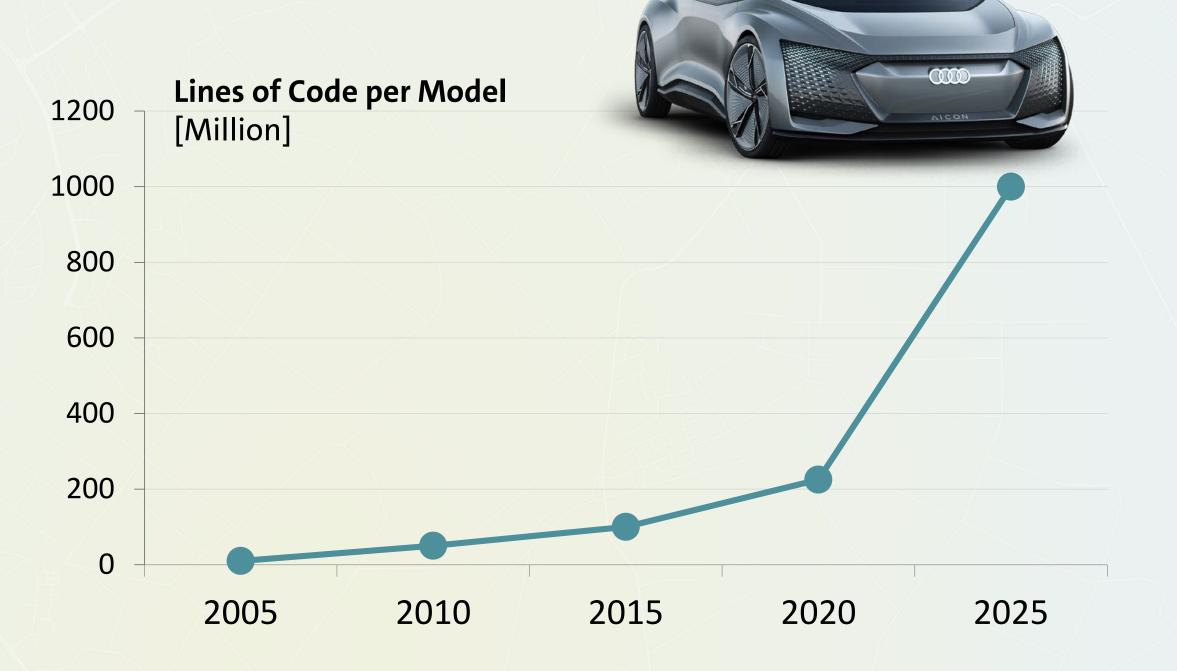
- 100 million lines of code per vehicle
- Approximately \$ 10 per line of code
- Example: Navi system 20 million lines of code



Tomorrow

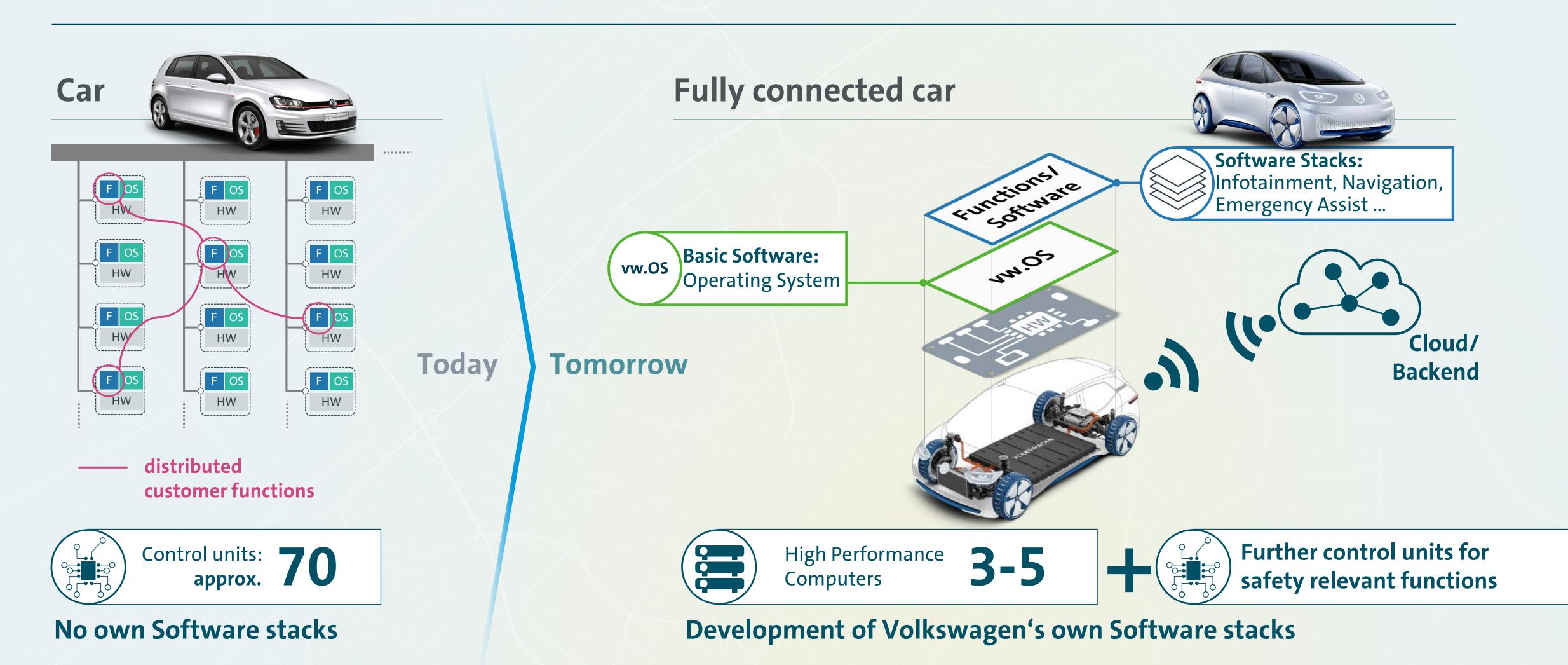
> 200 - 300 million lines of code are expected

 Level 5 autonomous driving will take up to 1 billion lines of code





THE CAR BECOMES THE MOST COMPLEX INTERNET DEVICE

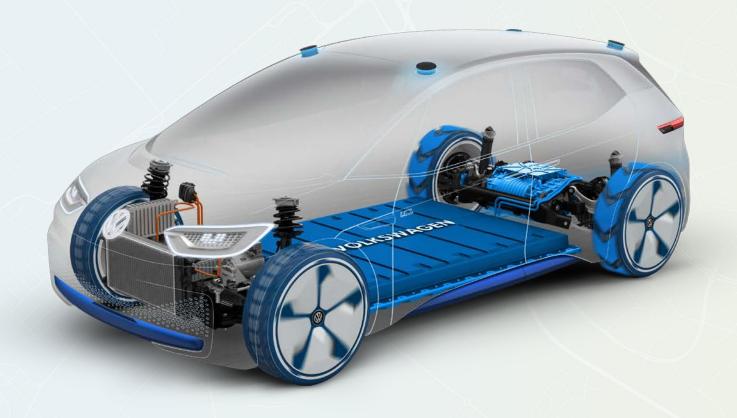


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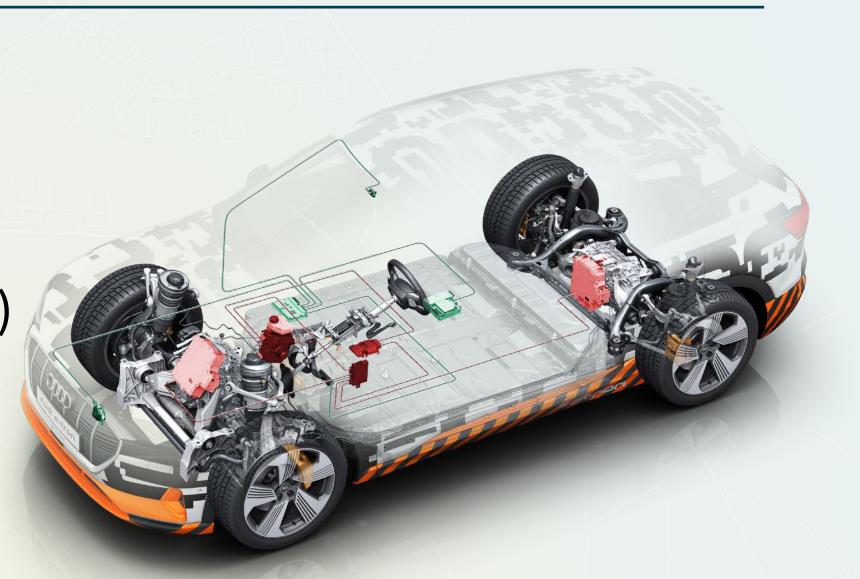


FIRST STEPS TAKEN IN SOFTWARE TRANSFORMATION

- E³ architecture for premium (PPE) and volume (MEB) under way
- Separating hardware and software development
- Ramp up software competencies started (Carmeq)
- Partnerships and acquisitions (Microsoft/WirelessCar/Diconium)
- Board position for Software development
- Strategy:
 - Volkswagen Group owns software stack
 - Deploys software continuously into the fleets / all car brands









INCREASED FOCUS ON VALUE CREATION

• First steps to release shareholder value: TRATON in preparation and further steps in portfolio optimization in consideration

• Performance share plan introduced introduced to Top Level Management (~380) and similar plan to be introduced to total Management (~6.800)

- Efficiency and Performance programs, complexity reduction and synergies in all brands
- Roll out of Integrity-Program well on the way
- Leadership program expanded





KEY MESSAGES

1.

2.

3.

4.

5.

Leading the industry in e-mobility

Cost effective First in transformation transforming into path software OEM

Increased focus
o on
value creation

Update on Strategy Together 2025+ in summer

