

We make the future real. e-Mobility@Volkswagen

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TIMES ARE CHANGING.

Our industry lost touch with the Zeitgeist of today and the digitally driven society.





TIMES ARE CHANGING.

ICE as a core technology is under heavy regulatory pressure.





VOLKSWAGEN STRATEGY TRANSFORM 2025+.

Four radical trends set the framework.

Connectivity

> 600 mn

number of fully connected vehicles worldwide in 2025



Autonomous Driving

> 90 minutes

Average time spent by drivers in their cars each day in Europe and the USA

Electrification

< 90g CO₂/km

Global environmental standards expected to be intensified drastically after 2020





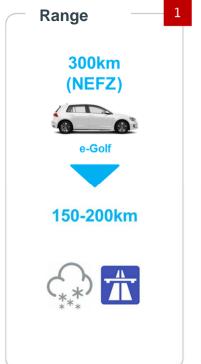
Shared Mobility

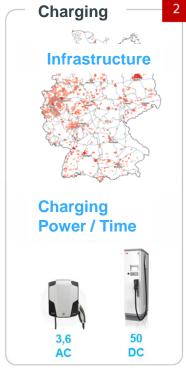
> 10%

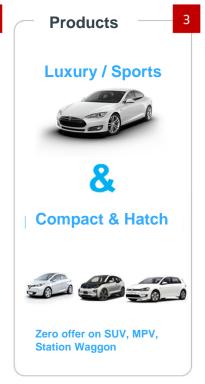
Proportion of usagebased automobility in urban areas in 2025



HURDLES FOR E-MOBILITY SO FAR.





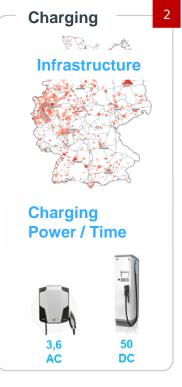


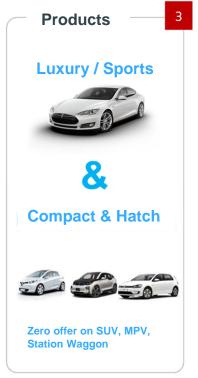




HURDLES FOR E-MOBILITY SO FAR.





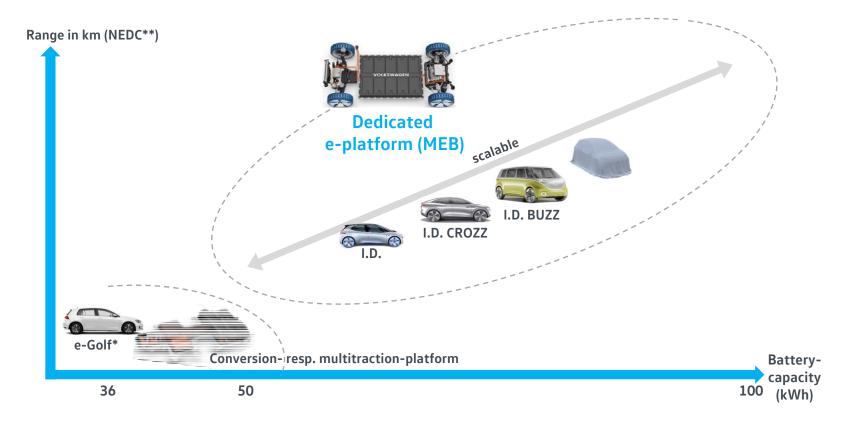






DEDICATED e-PLATFORM ENABLES HIGH NOMINAL RANGES (NEDC).

Optimal usage of packaging space through dedicated e-platform MEB.





SCALABLE RANGES.

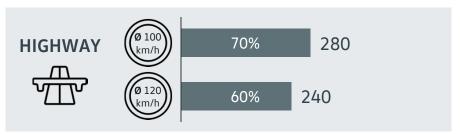






Ranges depend on personal use cases and external factors.



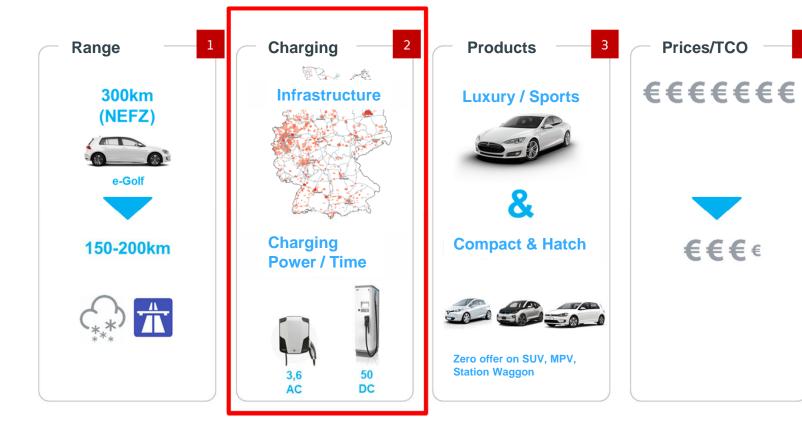


^{*} Heating / Air Conditioning; Fan; Lights; Radio; Navigation; Seat Heating (winter)



Schematic diagram

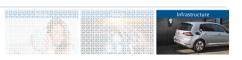
HURDLES FOR E-MOBILITY SO FAR.





CHARGING ANXIETY AS KEY CHALLENGE.

Charging infrastructure as enabler for e-Mobility.



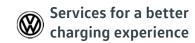


Innovative, competitive & affordable charging technology



Fast DC charging







Charging everywhere & seamless



Charging optimized routes



Charging with a positive contribution to total cost of ownership



Charge anywhere, anytime, seamless!



Smart AC/DC Wallbox





















CHARGING – HPC JOINT VENTURE ON HIGHWAYS.

Invest in 400 HPC stations until 2020 – starting 2017







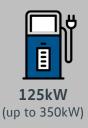


DAIMLER BMW



- → Station Network along Highways
- → Long-distance capability
- High Power DC
- CCS based
- Up to 350 kW

- → 400 stations
- → every 120km
- → 6-10 charging points per station





45% SOC +100-150km*



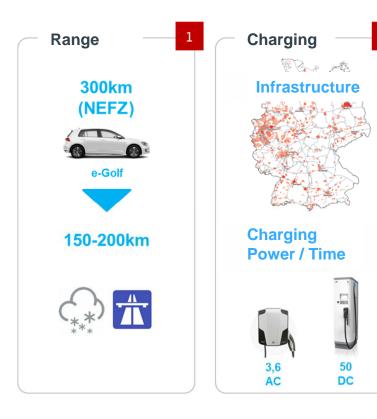
80% SOC +150-260km*



100% SOC

*Real Range

HURDLES FOR E-MOBILITY SO FAR.















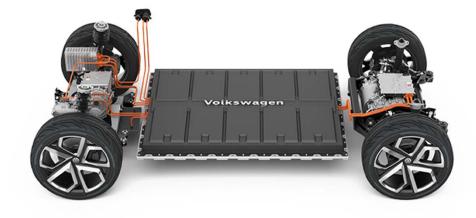




















MEB is built around the battery.















More space in driver's area and in the back; higher seating position







larger wheelbase short overhangs



bigger wheel diameter













More space in driver's area and in the back; higher seating position



central computer unit



I.D. LINE UP.







The first family members.



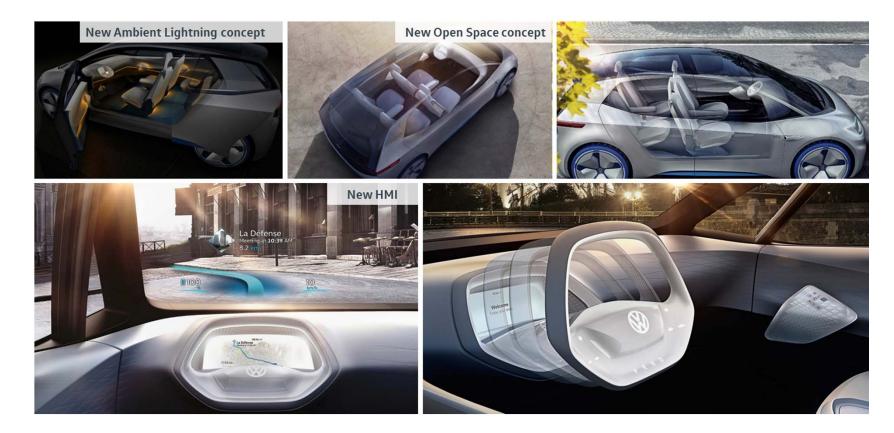


I.D. EXTERIOR IMPRESSIONS.





I.D. INTERIOR IMPRESSIONS.





I.D. CROZZ EXTERIOR IMPRESSIONS.





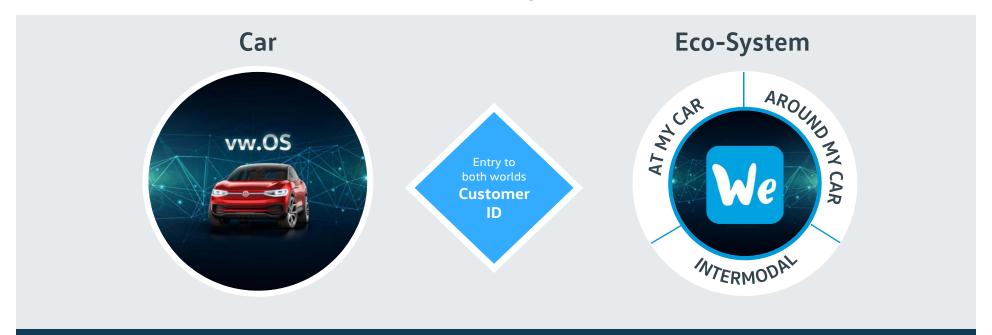
I.D. BUZZ EXTERIOR IMPRESSIONS.





THE CAR OF THE FUTURE IS 100% DIGITAL.

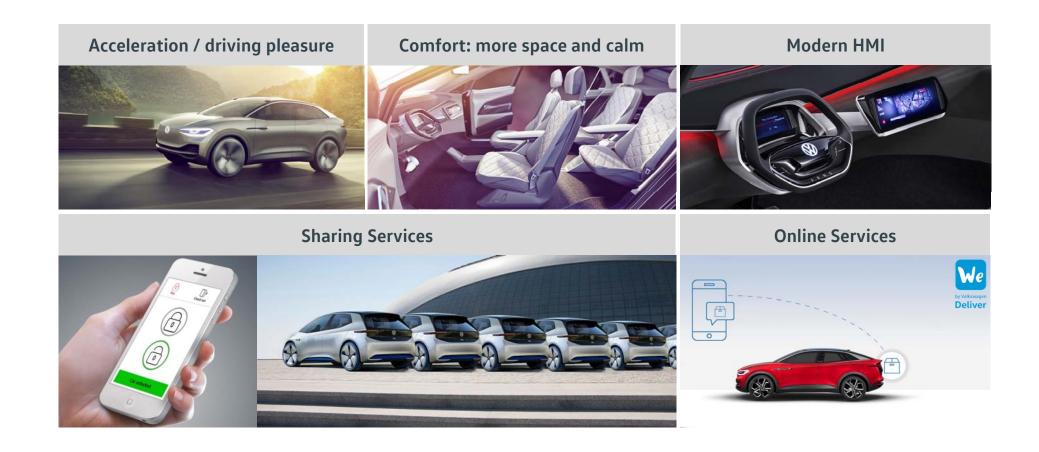
A unique customer ID as an enabler for a digital car.



The car becomes a **smart device in a Mobility-Service-Ecosystem** where features and services **make peoples life better.**

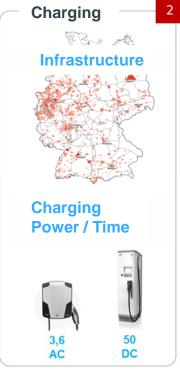


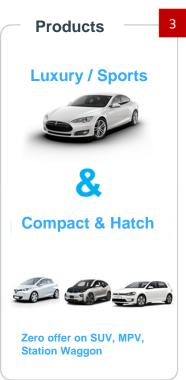
THE NEW E-MODELS' PRODUCT APPEAL.

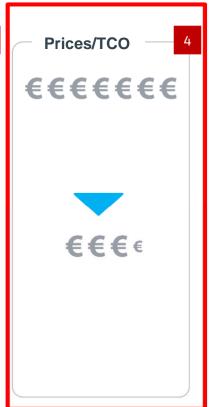


HURDLES FOR E-MOBILITY SO FAR.











AFFORDABLE PRODUCTS.

Price equal to a comparable Diesel.







MADE BY PEOPLE - FOR PEOPLE.

We are committed to make e-mobility accessible for everyone.





