Covid-19 e-Mobility Recovery
Time to take our chance!

Michael Keller
e-Mobility Services, VW
Berlin | 03.06.2020
After Corona

„Environmental awareness despite the crisis“

Covid-19

Better Air Quality

Back to Nature
Chance for E-Mobility

Fast transformation to achieve these conditions
Besides other economic sectors, the transport sector will contribute to reducing global greenhouse gas emissions

Global emissions by economic sector:

- 25% Electricity Generation
- 24% Agriculture and Forestry
- 21% Industry
- 14% Transport
- 10% Other Sectors
- 6% Residential and Commercial
- 21% Other Sectors

General Goal: Reduce CO₂ emissions to zero by 2050 at the latest.

Source: Intergovernmental Panel on Climate Change (IPCC)
Retrograde target derivation based on the Paris Climate Agreement requires effective transformation planning.

Paris implications and transformation path:
- Conventional platforms
- Conventional projects

Broad product portfolio → Transformation → CO₂ neutral cars

CO₂ emissions → BEV

2020 → 2050

Fleet renewal after >10 years

"Zero Emission" in the existing fleet
What is needed for a CO2 neutral mobility?

Since 2016 more renewable generated energy in Germany has been given away and wind turbines have been stopped, than 40 Mio. passenger cars would have needed!

CO$_2$ neutral energy

Battery Electric Vehicle (BEV): Forecast 35 Mio. vehicles by 2030 in Europe
What is needed for a CO₂ neutral mobility?

- Energy transfer:
  - How?
  - When?
  - Where?
  - Which direction?

- CO₂ neutral energy

- Battery Electric Vehicle (BEV): Forecast 35 Mio. vehicles by 2030 in Europe
What is needed for a CO2 neutral mobility?

- CO$_2$ neutral energy
- The infrastructure has to be:
  - Customer friendly
  - Intelligent
  - Interoperable
  - Integrated & connected
  - International
  - Popular with enough charging stations
- Battery Electric Vehicle (BEV): Forecast 35 Mio. vehicles by 2030 in Europe
Boosting e-mobility needs a consistent and future oriented masterplan

- Digital
- Connected
- Interoperable

$\text{CO}_2\text{ neutral energy}$

Enabling infrastructure, e.g. fast charging, vehicle-to-grid operation, pricing signals, ...

supported by governmental funding
Call to action for charging infrastructure expansion

Focus of action

- @Home
- @Work
- @Public

Direct public funding and project lead

Regulatory framework (e.g. for private installations, local approval, interoperability, data exchange)

Tax incentives

Further action needed

- @Highway
- Public funding
- Regulatory framework
- Tax incentives
Electric for all:
The SOP of the Volkswagen ID.3 marks the start of a new era.
Thank you!