

CARS of TOMORROW

WTC Lucerne

Wolfgang Müller-Pietralla

Volkswagen AG Future Affairs

ENERGY

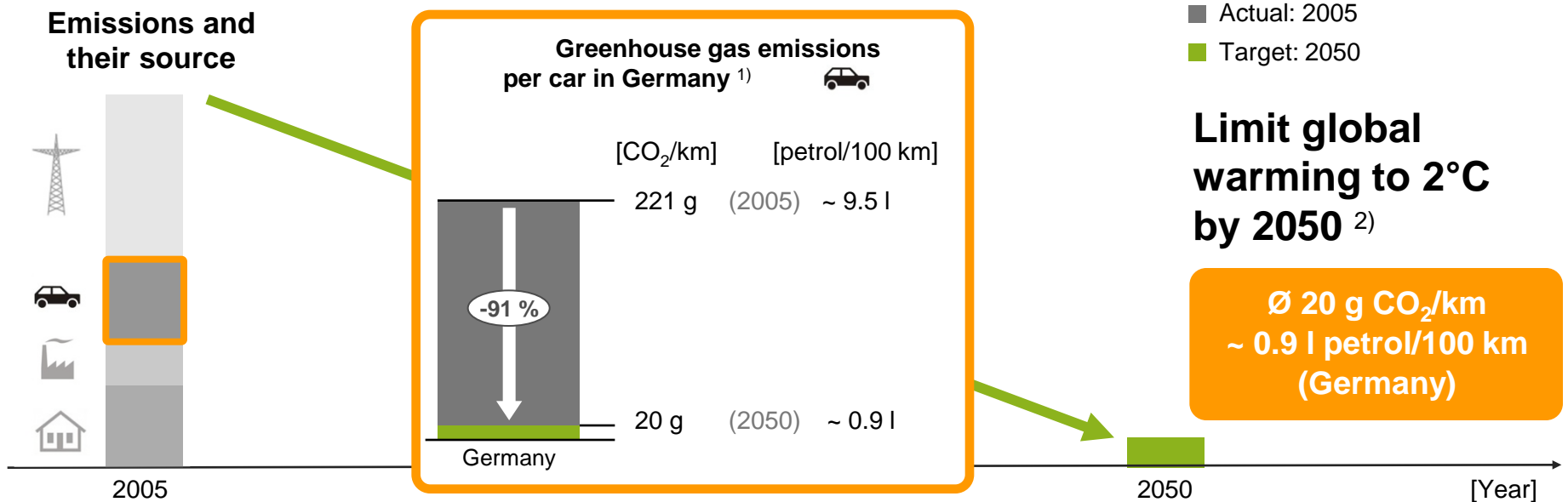
ENVIRONMENT

DRIVING AS AN EXPERIENCE

MOBILITY



Limiting global warming demands drastic measures – reduce CO₂ emissions by approx. 90 % by 2050



¹⁾ Source: IPCC Fourth Assessment Report: Climate Change 2007, McKinsey & Company in part

²⁾ Political letter of intent e. g. part of the Copenhagen Accord 2009 concerning the EU and G8+5 countries

... ASSUMING
RESPONSIBILITY ...

1-litre car: XL1

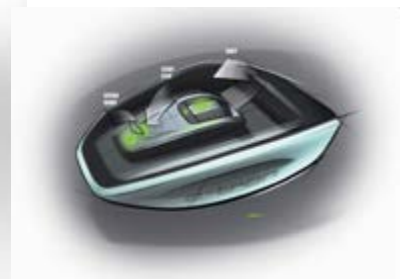
Consumes 0.9 l per 100 km



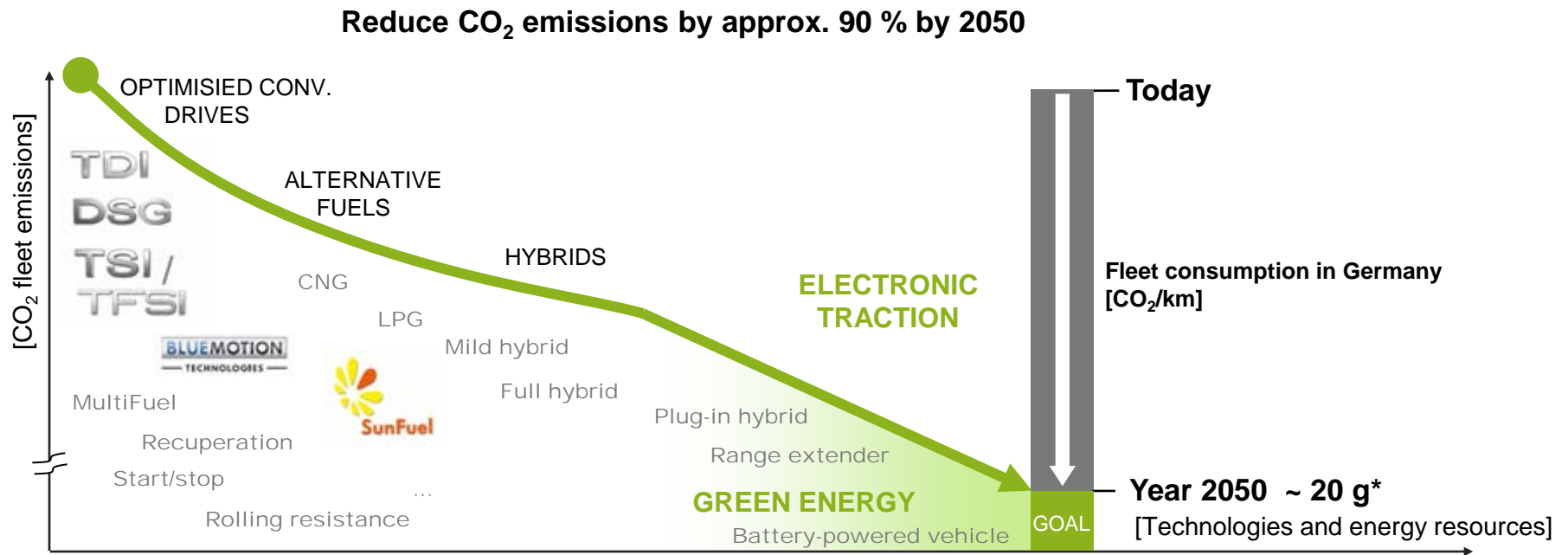
VOLKSWAGEN

AKTIENGESELLSCHAFT

Audi e-tron

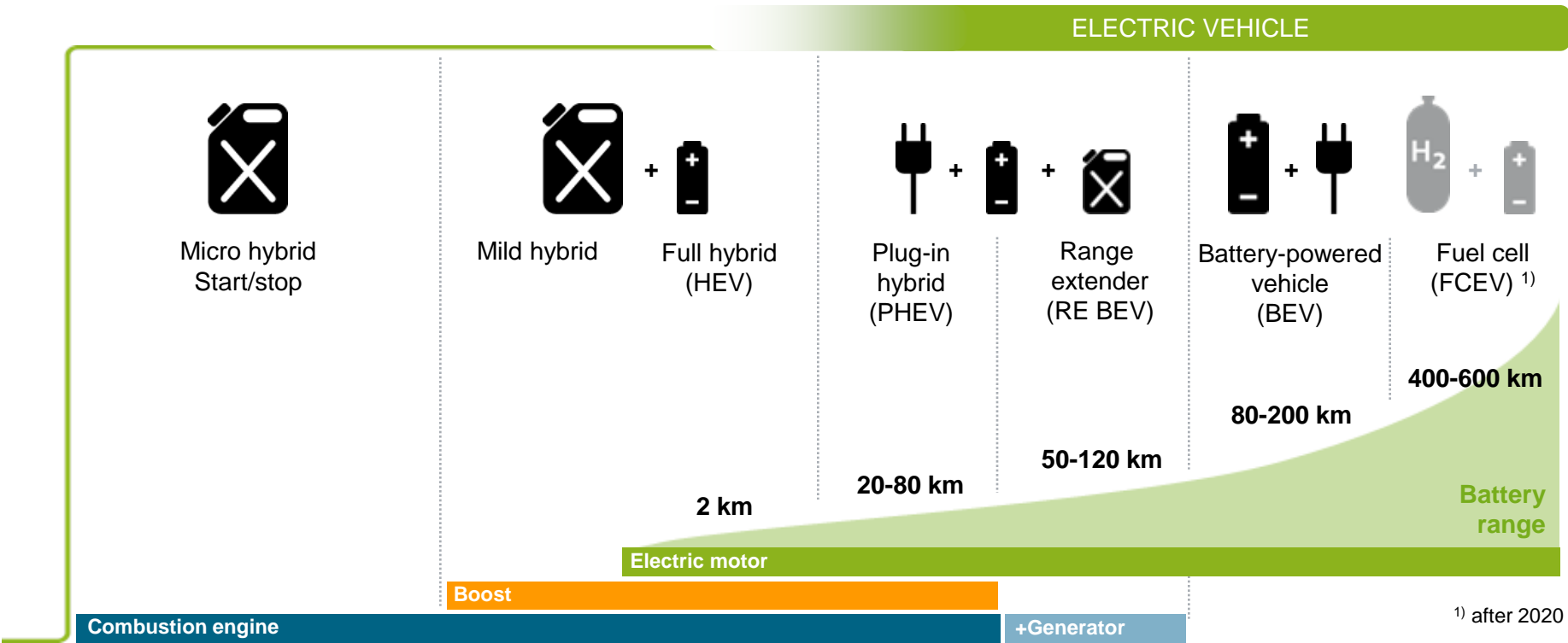


Conventional drive technologies are not enough to reach the drastic target of "limiting global warming to 2°C by the year 2050" – e-mobility can close the deficit

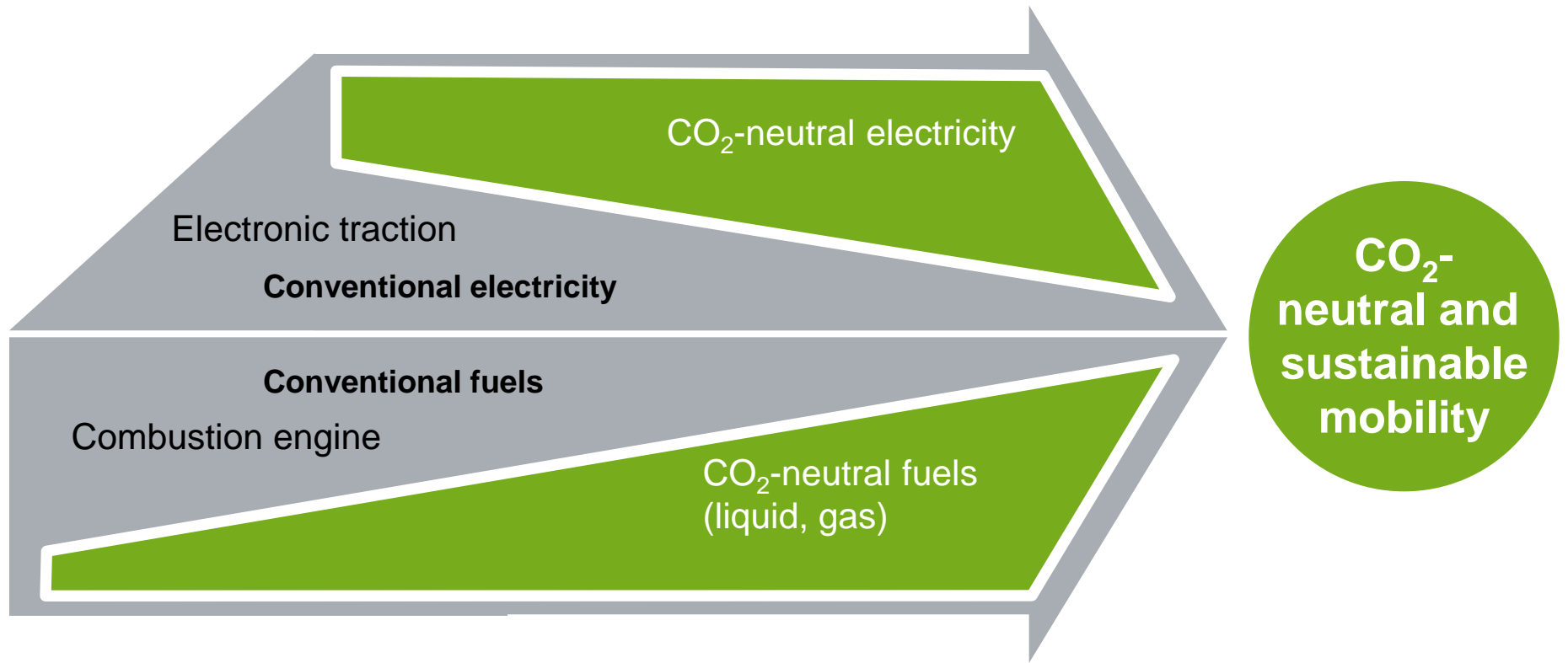


*Taken from the political target (part of the Copenhagen Accord 2009 concerning EU and G8+5 countries) to limit the increase of global temperatures to 2 °C by the year 2050 (basis for data: IPCC Fourth Assessment Report: Climate Change 2007, McKinsey & Company in part)

Electrifying the drive

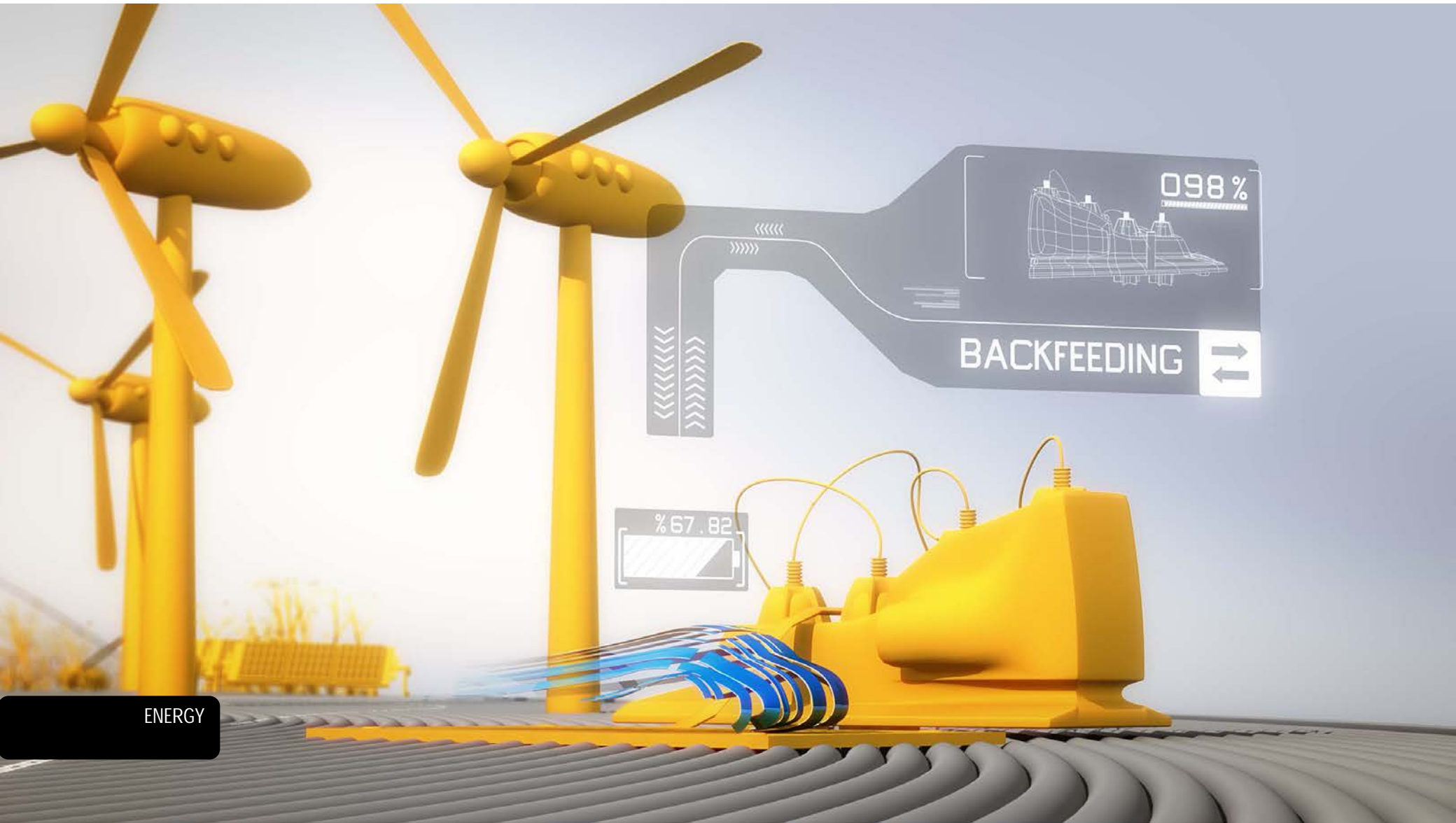


Co-existence of drive technologies



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ENERGY

... TRANSPARENCY
VIA LIFE CYCLE
ANALYSES ...

ENERGY

Where does the energy come from?

Well-to-Wheel CO₂ emissions in Golf TDI BlueMotion

Diesel

111 g



Well-to-Wheel CO₂ emissions of a Golf BEV* powered by:



Brown coal

188 g

Black coal

171 g

Heating oil

145 g

Natural gas

98 g

6 g Nuclear energy

1 g Green energy (here: wind energy)

Power mix EU 2007 88 g

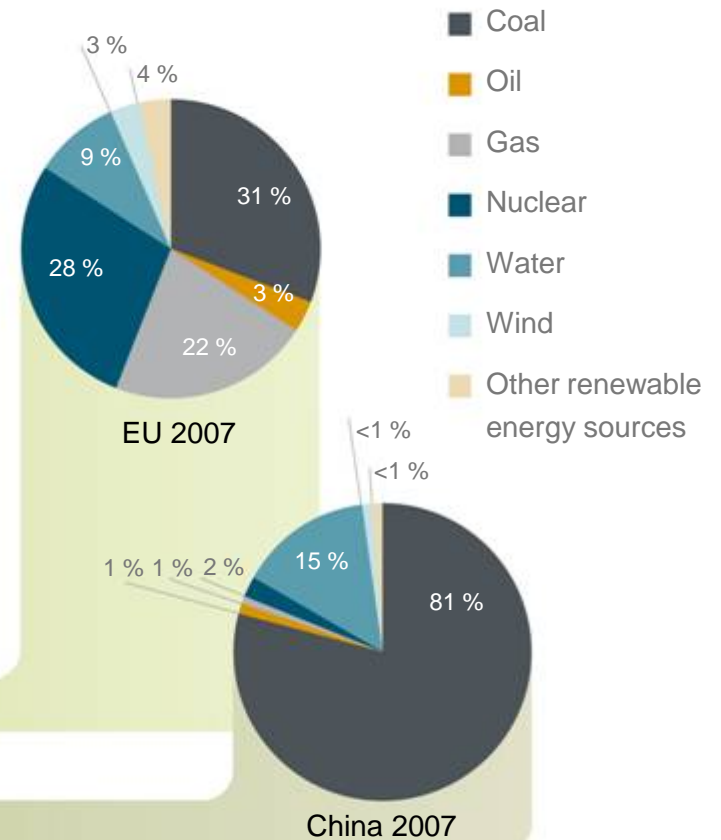
Power mix EU 2020 71 g

Power mix China 2007

179 g

CO₂ emissions/km

Power mix



* Consumption: 15.7 kWh/100 km (NEFZ)

... SETTING THE
TREND IN
BUSINESS.

ENERGY

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Within the next 10 years, the Volkswagen brand is to become the most innovative volume manufacturer with the best quality in its class.

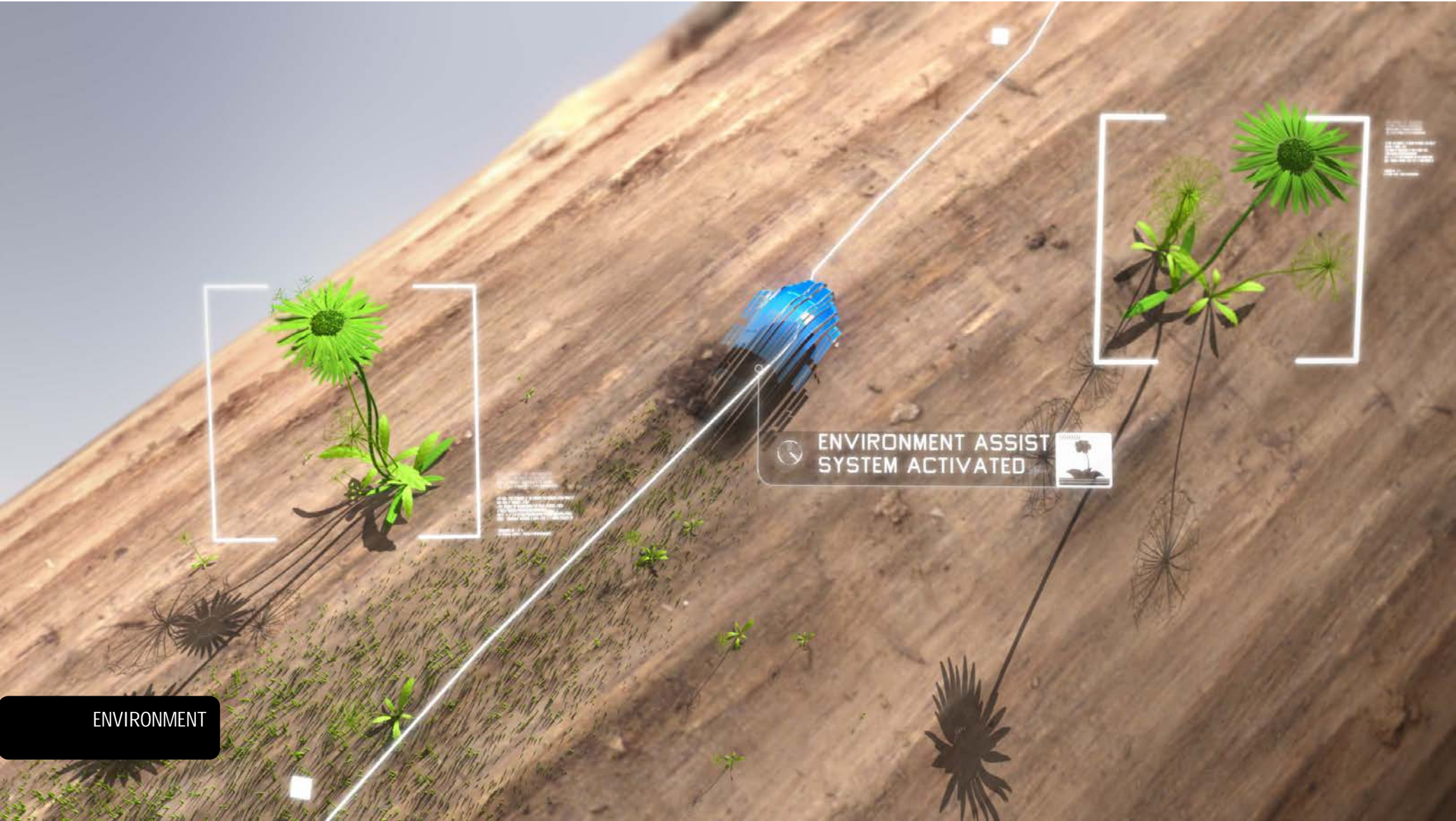
Prof. Dr Martin Winterkorn

Volume manufacturer of the GOLF e-MOTION



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ENVIRONMENT ASSIST SYSTEM ACTIVATED



ENVIRONMENT

ZERO-IMPACT TECHNOLOGIES ...

ENVIRONMENT

Micro mobility
e-bike



... THE DEMOCRA-
TISATION OF
SUSTAINABILITY ...

ENVIRONMENT

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Efficient and informative travel: Berlin TAXI



... EXPERIENCING
CONSERVATION
FIRST HAND ...

ENVIRONMENT

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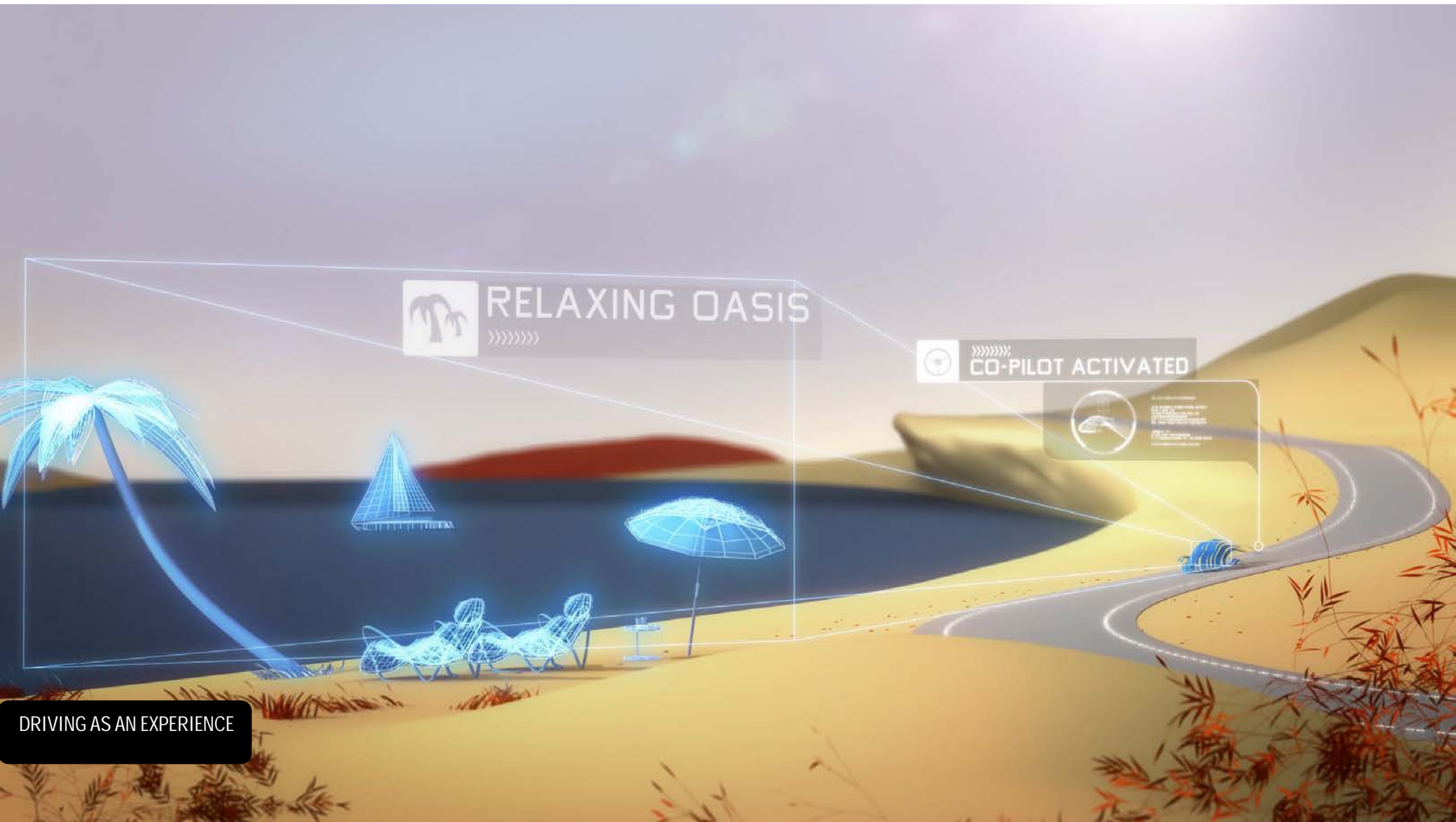
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Audi e-tron Spyder



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RELAXING OASIS



CO-PILOT ACTIVATED



CO-PILOT ACTIVATED
The system is currently active and monitoring the driving environment. It will provide assistance when needed.

DRIVING AS AN EXPERIENCE

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FOCUSSING ON
GETTING THERE ...

DRIVING AS AN EXPERIENCE

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Bulli Concept 2011



... USING
INTELLIGENT
TECHNOLOGIES ...

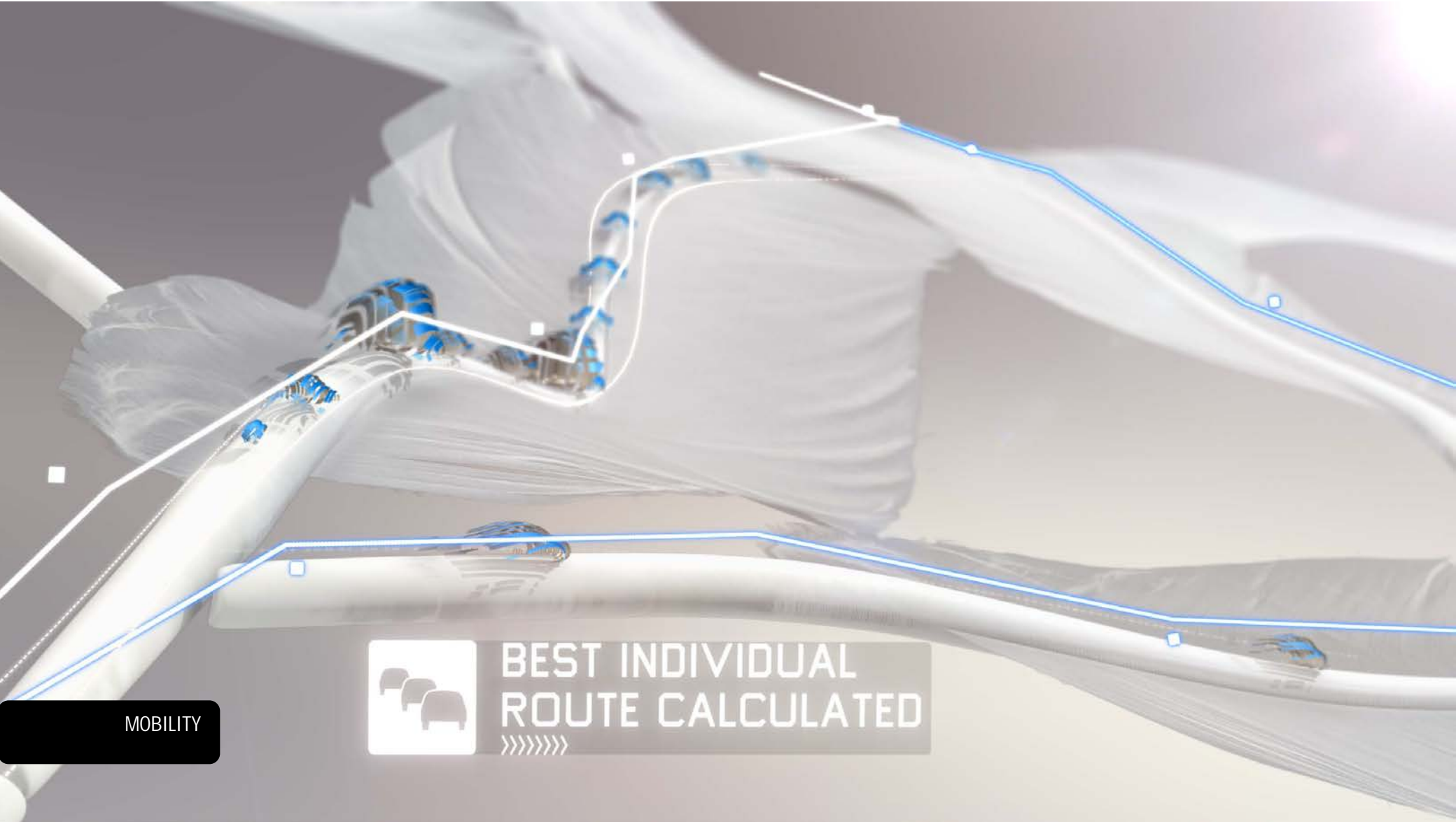
DRIVING AS AN EXPERIENCE

... PROVIDING
VALUABLE
CONTENT.

DRIVING AS AN EXPERIENCE

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MOBILITY



BEST INDIVIDUAL
ROUTE CALCULATED
»»»»»»

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FACILITATING FAIR MOBILITY ...

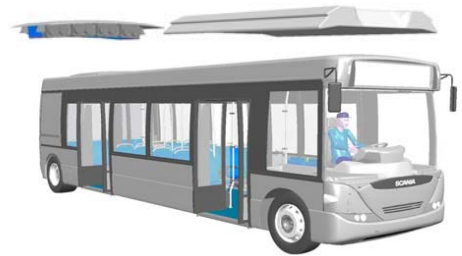
MOBILITY

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Scania ethanol-hybrid bus



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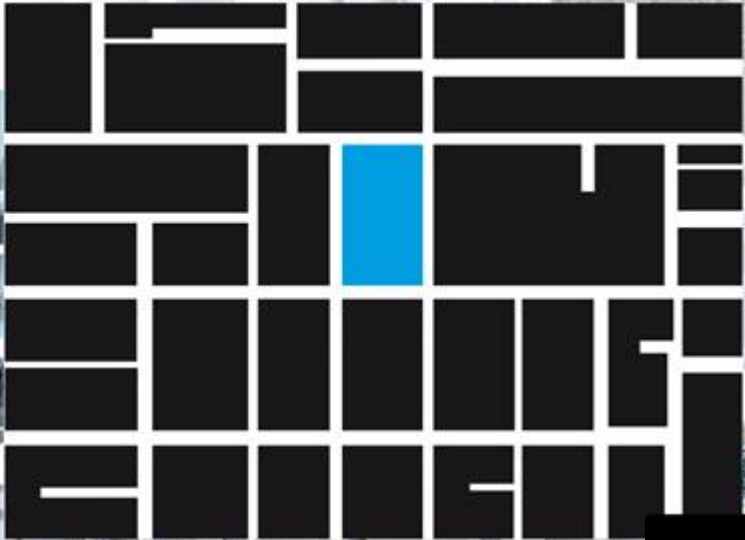
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... CONNECTING
MOBILITY
CONCEPTS.

MOBILITY

MICRO CITY

relieve



afford

network

