



AVERE

The European Association
for Electromobility

Driving Change Together

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Secretary General
PINFA workshop 2019



About Us

History

AVERE – Passion to electrify since 1978

Vision

AVERE's electromobility vision for Europe is:

- A strong electromobility industry;
- Clean, quiet and healthy cities;
- Energy efficient transport;
- Independence of fossil fuels.

Members

Diverse Network across the Continent (including Turkey) : OEMs, CPOs, EV users, Public Institutions, Research & Development entities, and other relevant companies from across the entire e-mobility value chain.





Old world v best new world



Old world v best new world

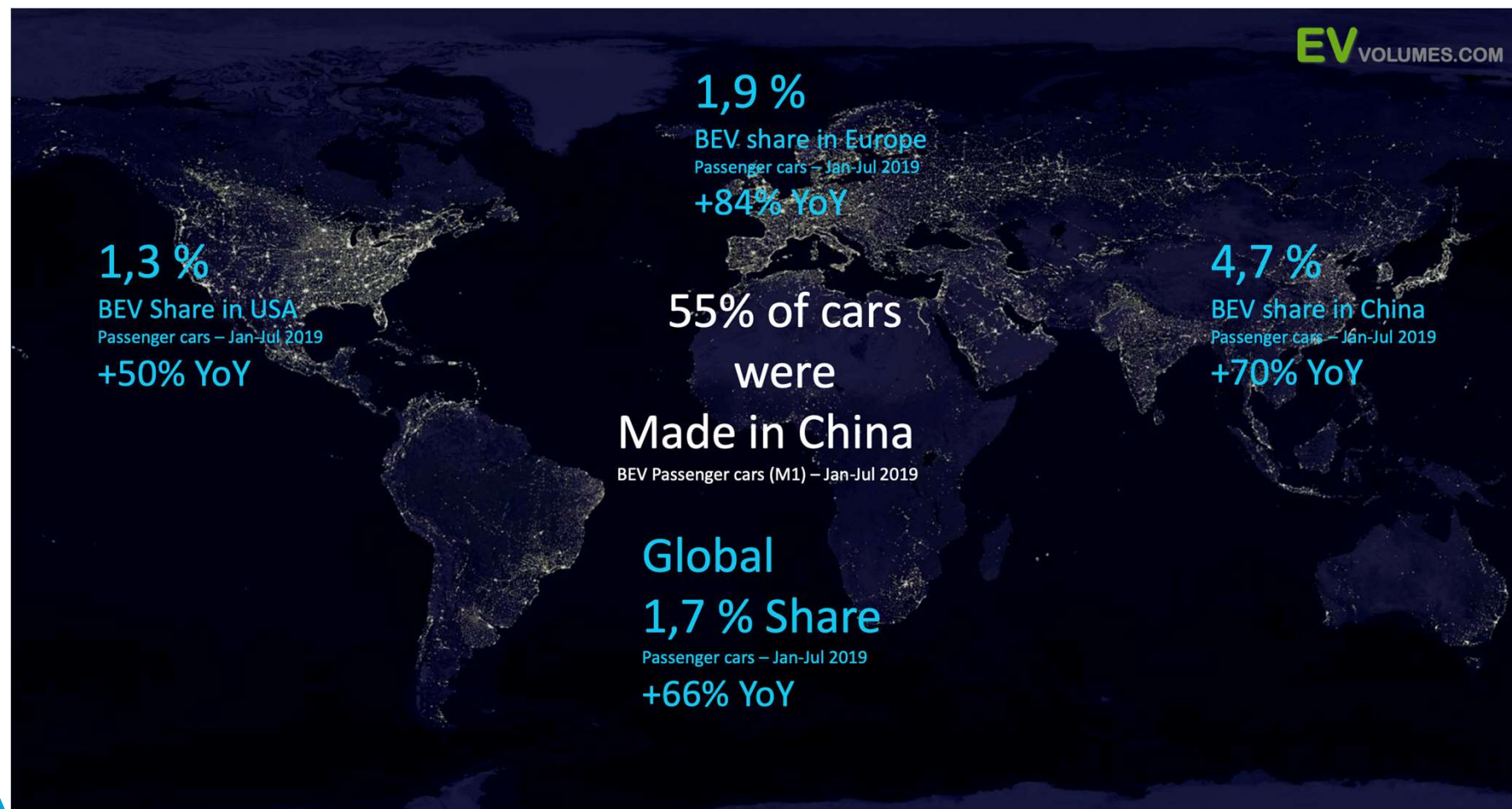
Men 1969



Men 2019

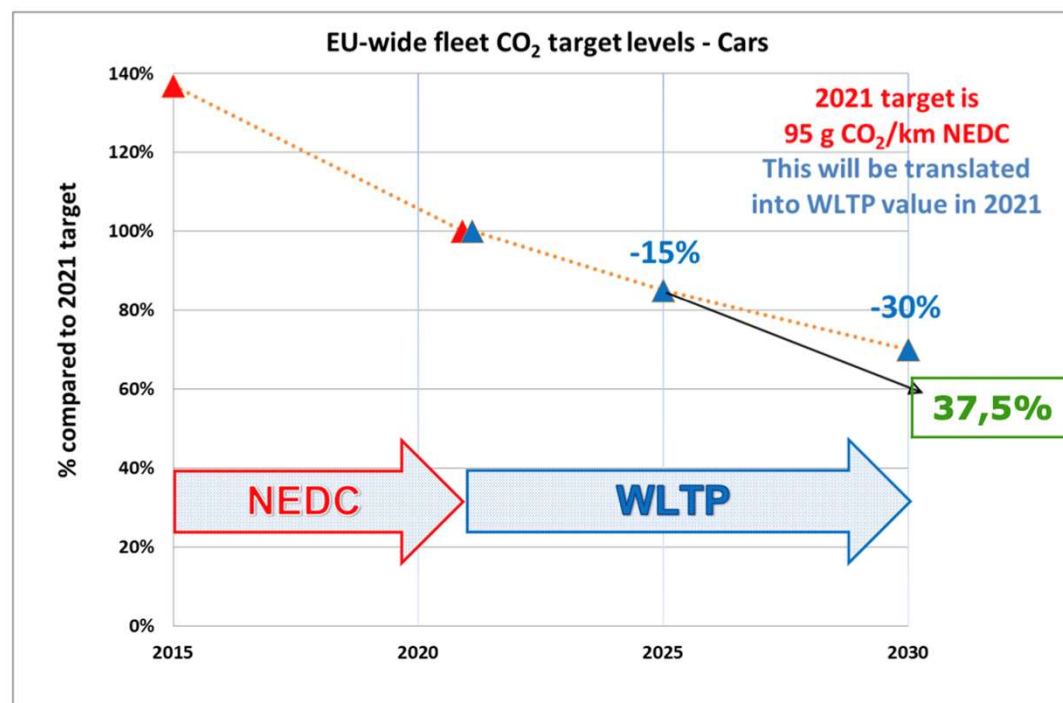


Market leaders v best in the East



Stricter EU-wide Co2 emission limits

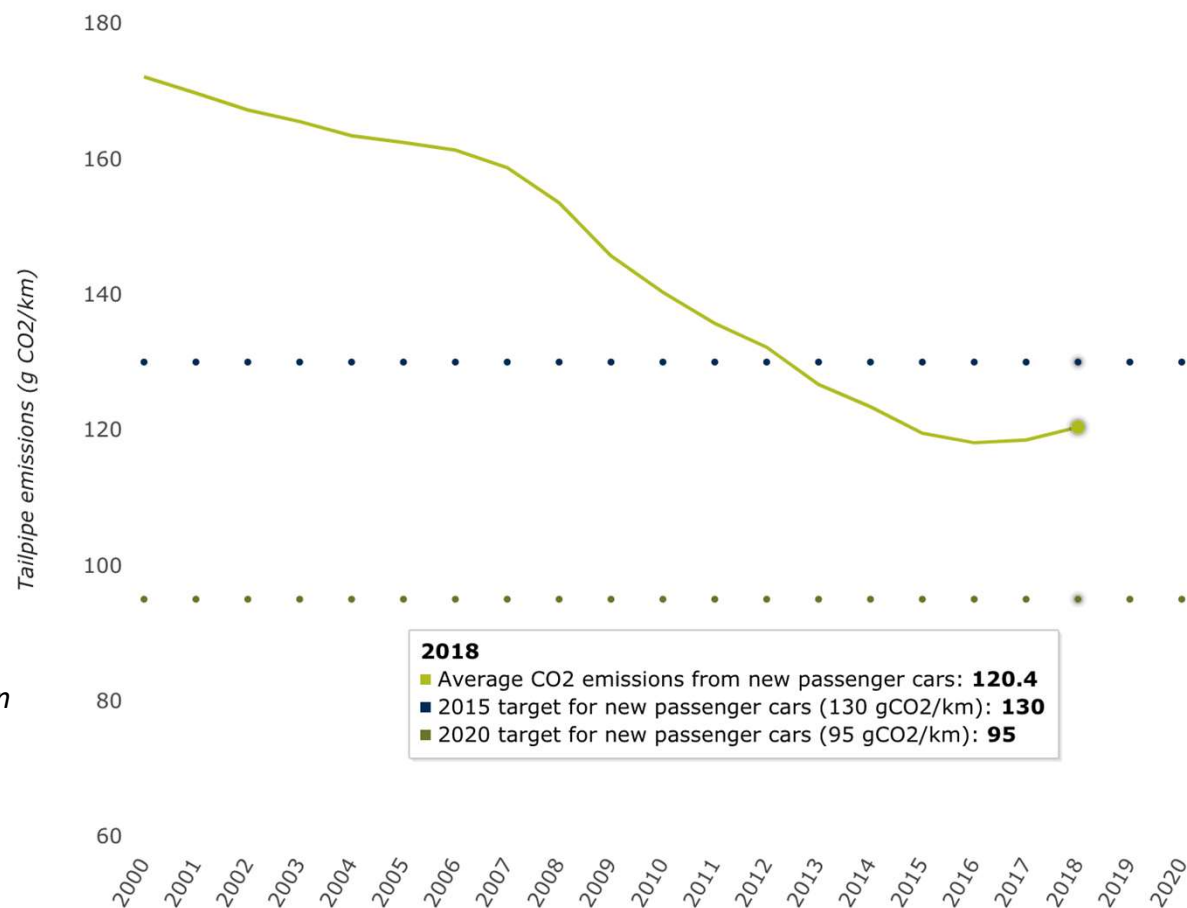
New EU fleet-wide 2025 and 2030 targets - cars



Source: European Commission

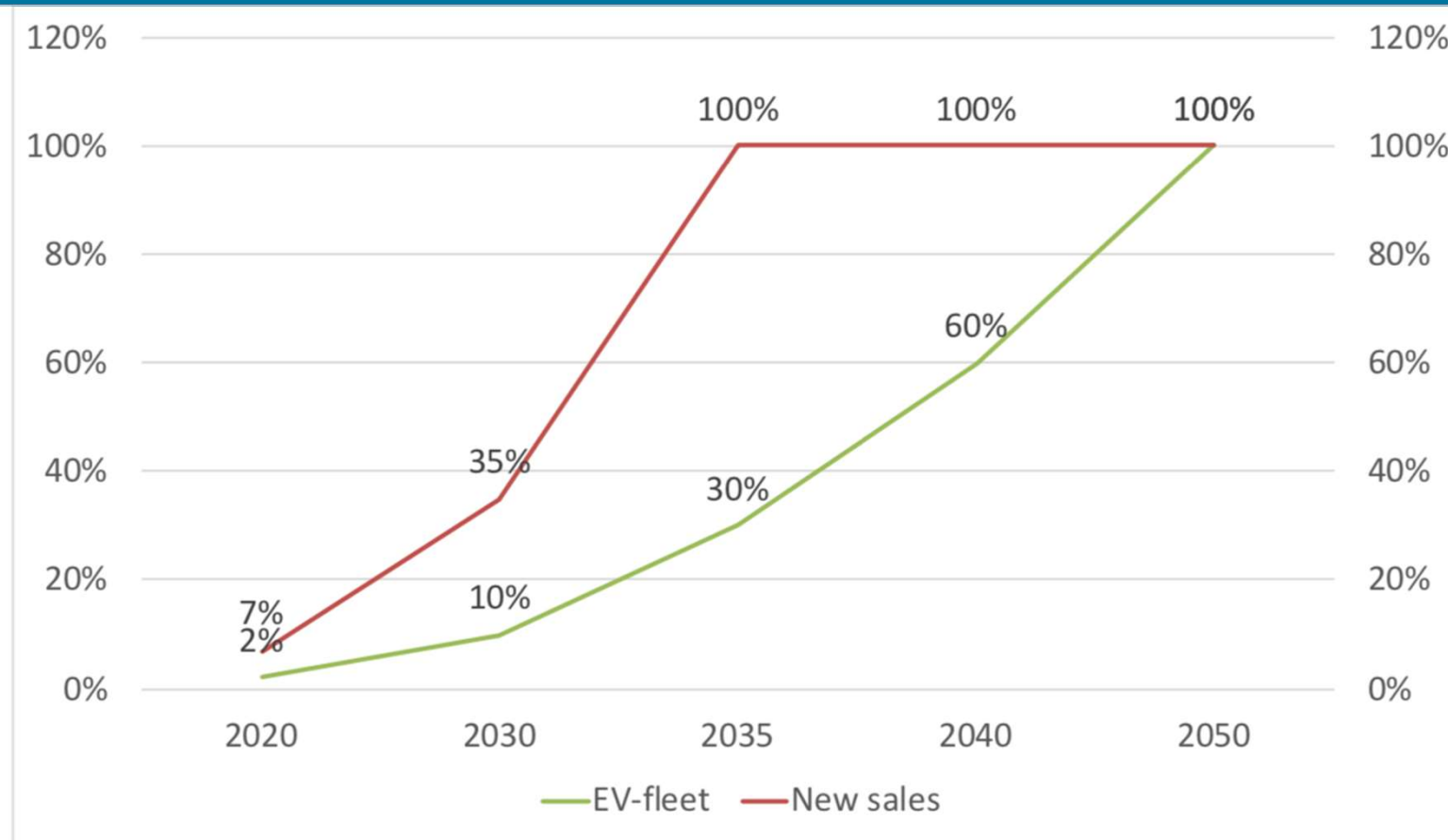
Increasing Co2 emissions

Chart — Average carbon dioxide emissions from new passenger cars



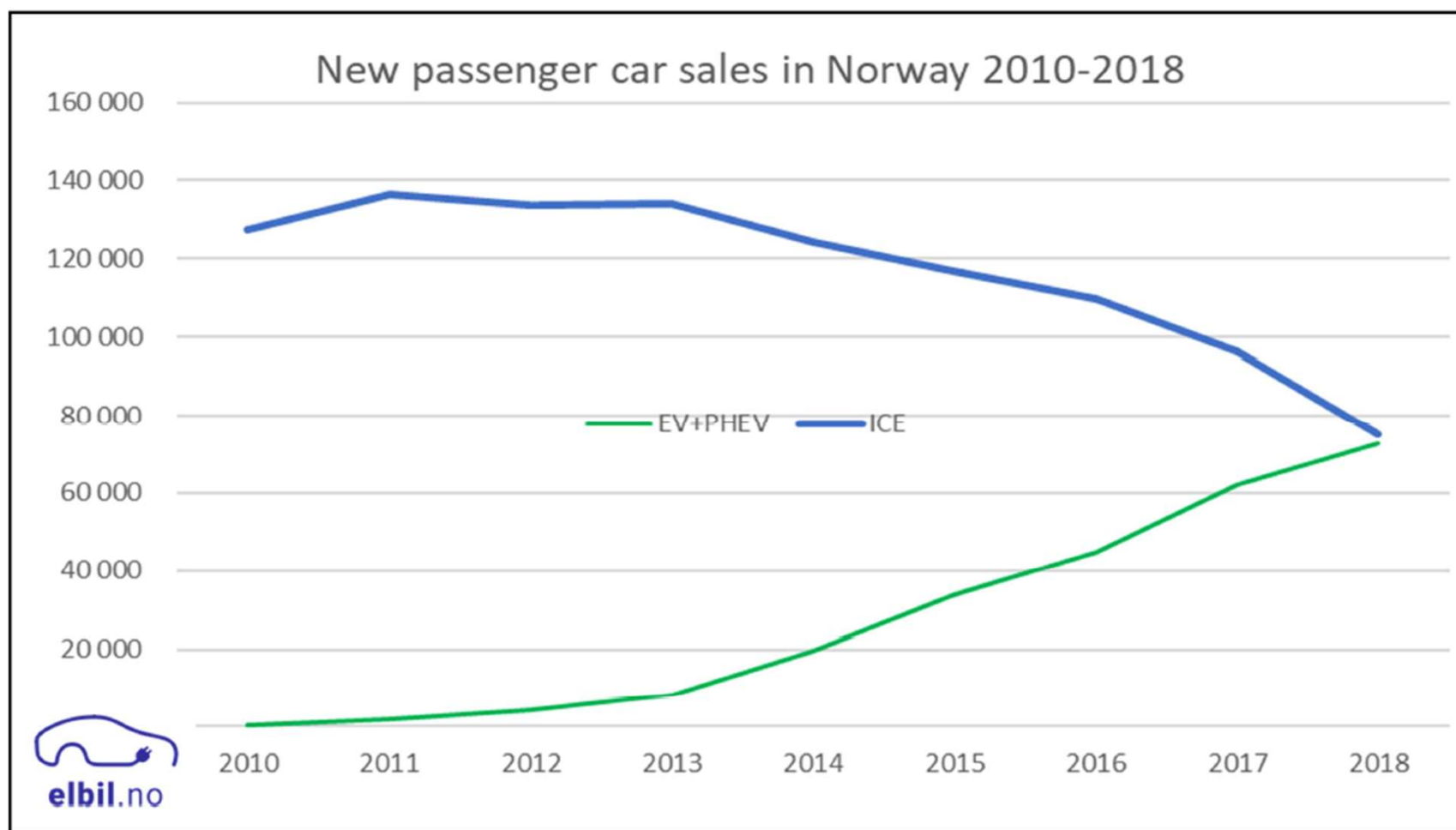
Source: European
Environmental
Agency

2050: 100% EV Fleet



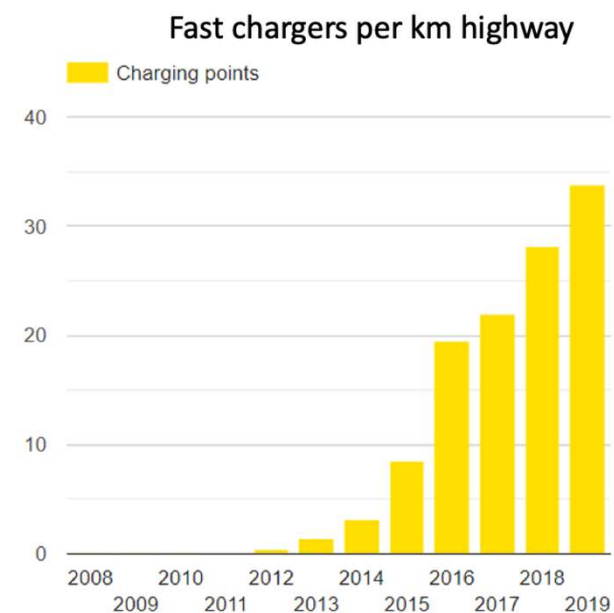
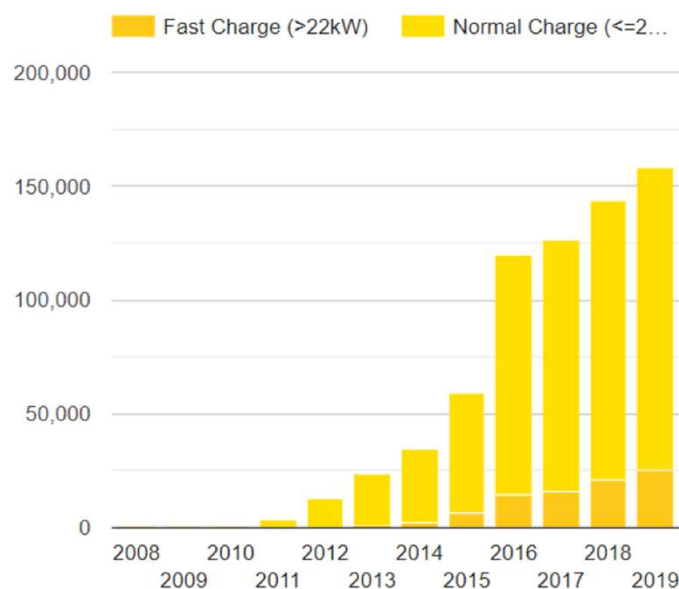
Source: Joeri Van Mierlo, MOBI-VUB

Norway Today

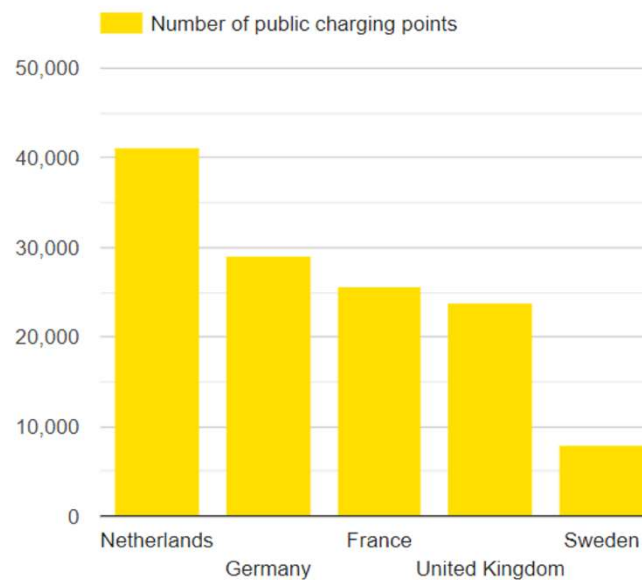




Charging infrastructure EU



Top 5 Countries charging infrastructure EU



Yesterday's barriers

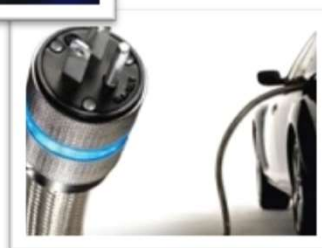
Top 3 Barriers for EVs



High purchase cost



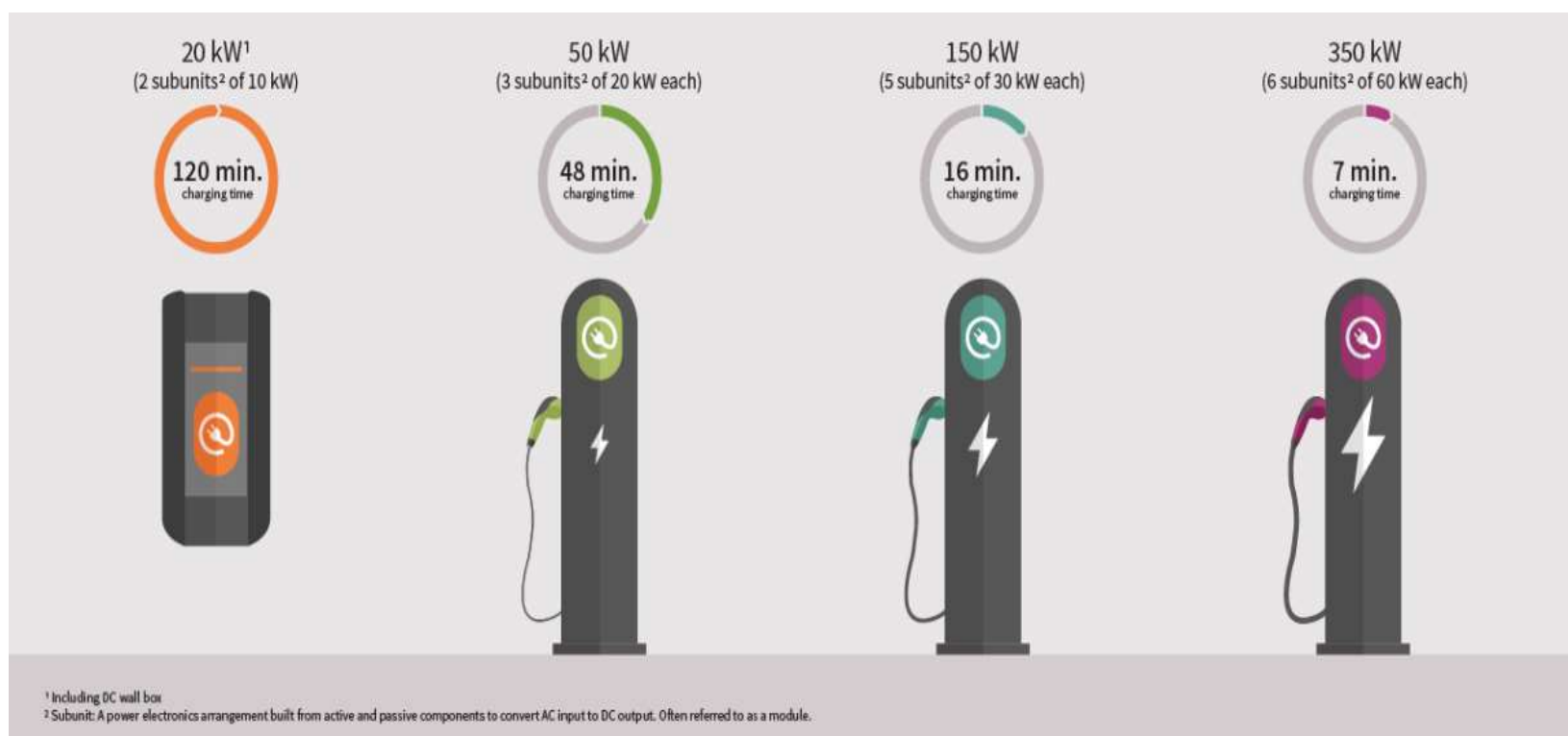
Limited driving range



Limited charging infrastructure

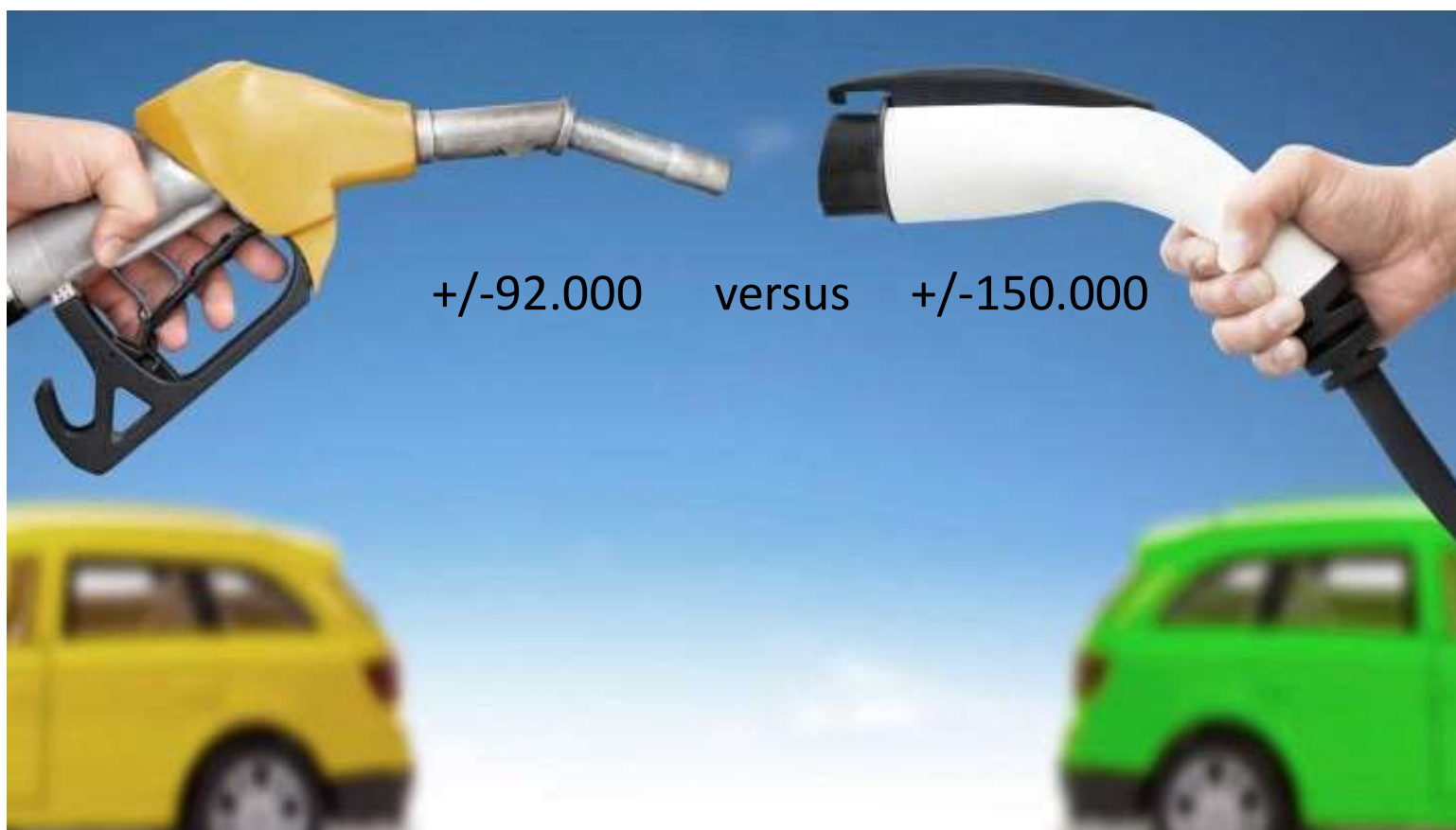
Source: Joeri Van Mierlo, MOBI-VUB

Trends: shorter charging times



Source: Infineon

Today: more charging stations than petrol stations

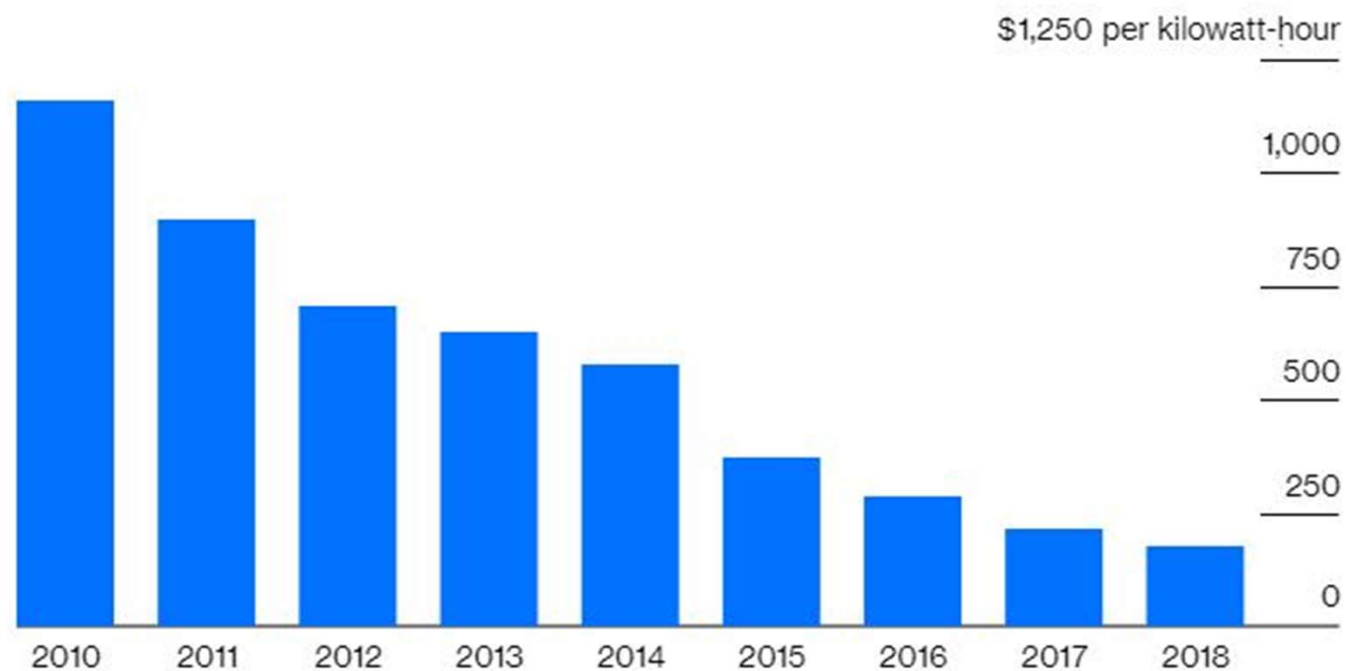


Source: EAFO

Trends: battery price

Downward Trajectory

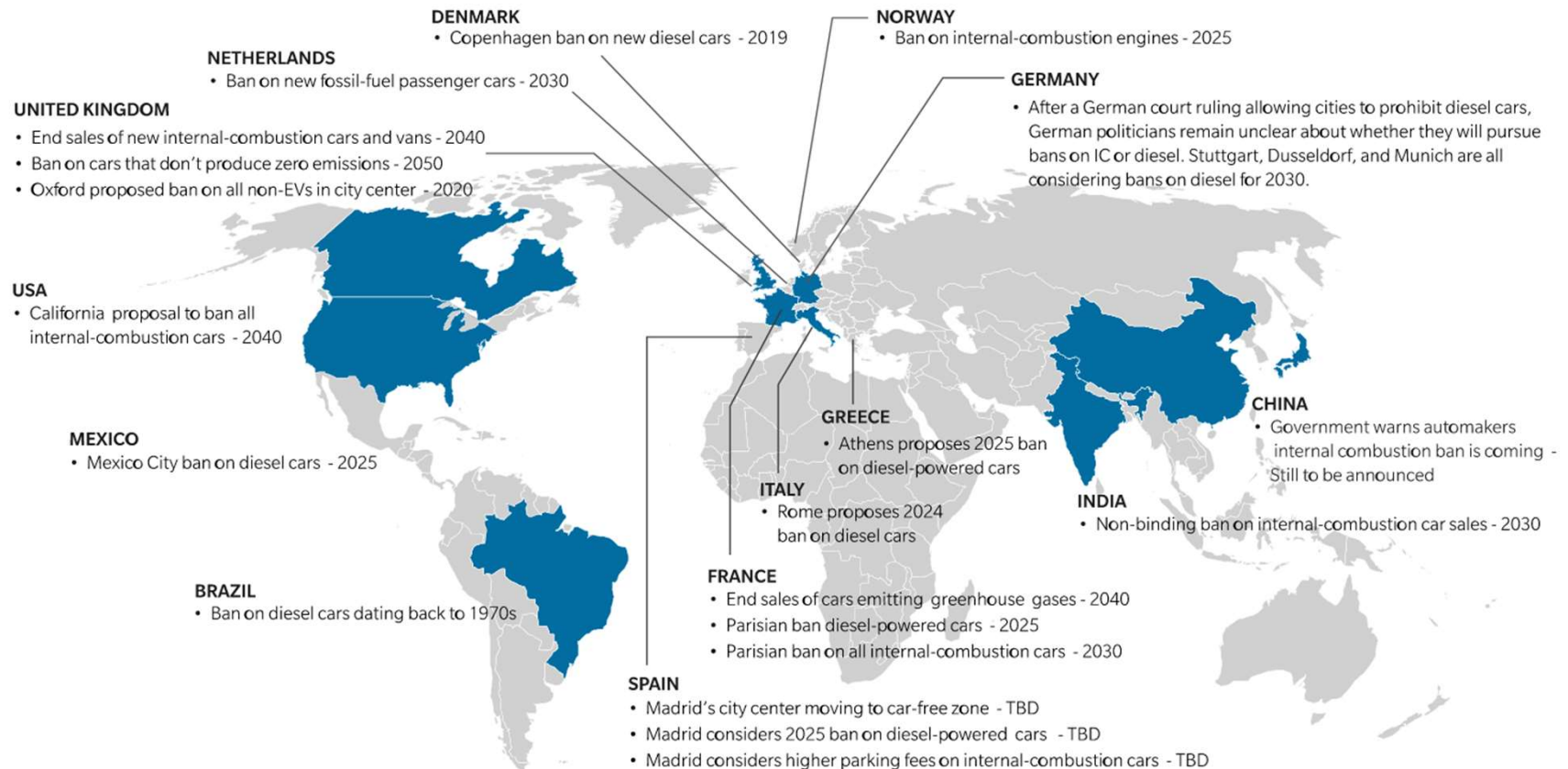
Volume-weighted average lithium-ion battery pack price*



Source: BloombergNEF

*In real 2018 dollars

COUNTRIES BANNING OR CONSIDERING A BAN ON INTERNAL-COMBUSTION (IC) VEHICLES



Charging Station Revolution



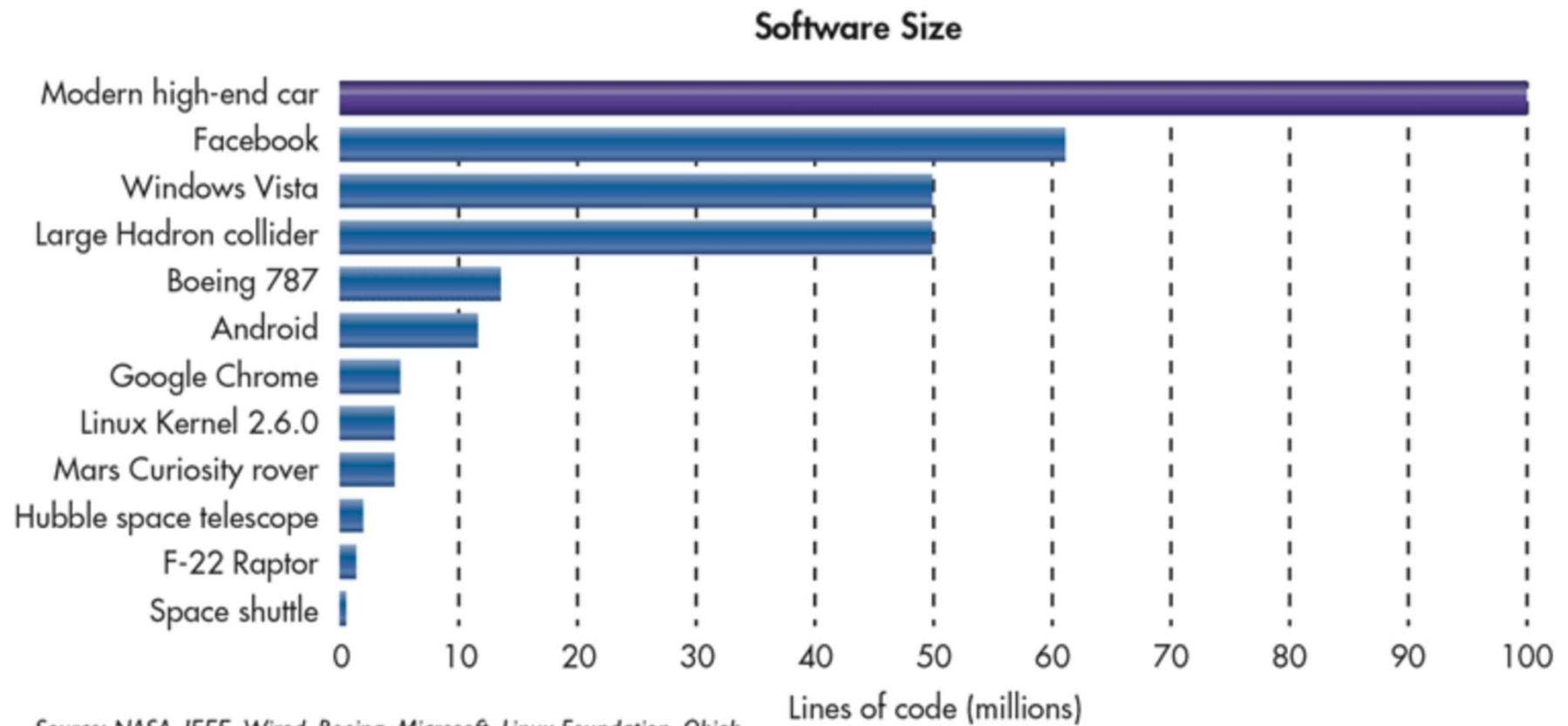
Industry Answers



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Source: NASA, IEEE, Wired, Boeing, Microsoft, Linux Foundation, Ohio

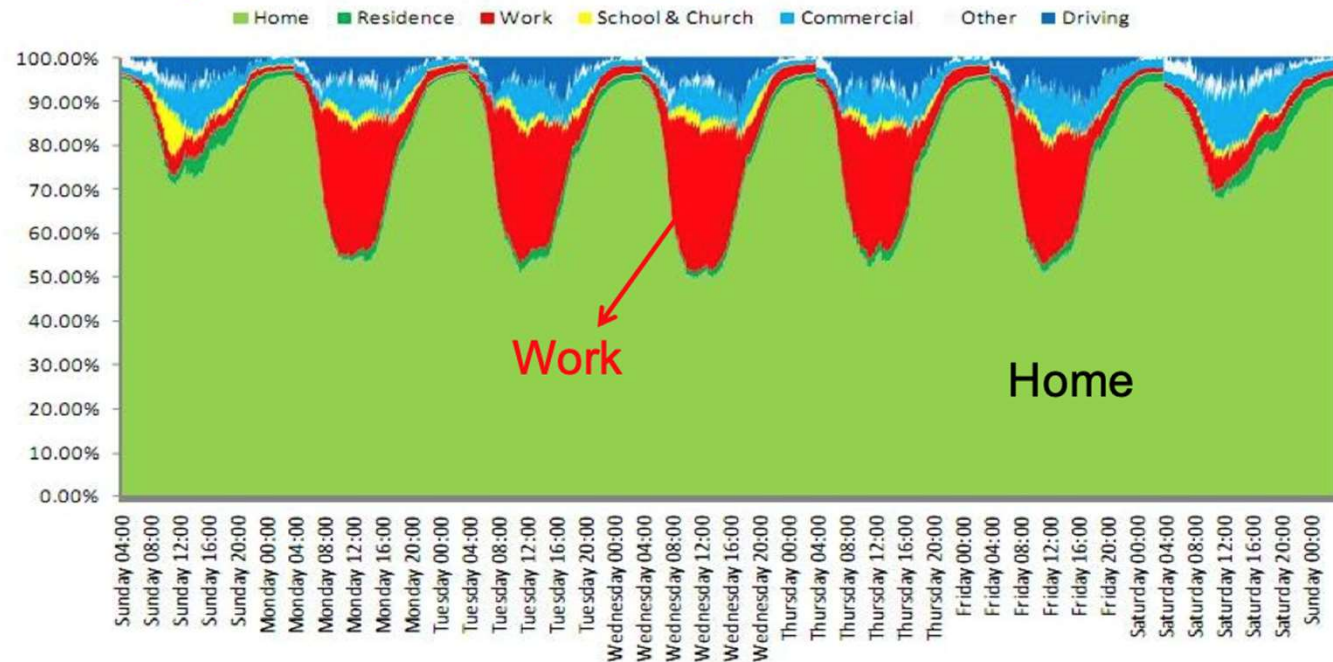
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Infrastructure needs

Where is your car during one week?



Source of Data - 2001 National Household Travel Survey ;
GM Data Analysis (Tate/Savagian) - SAE paper 2009-01-1311

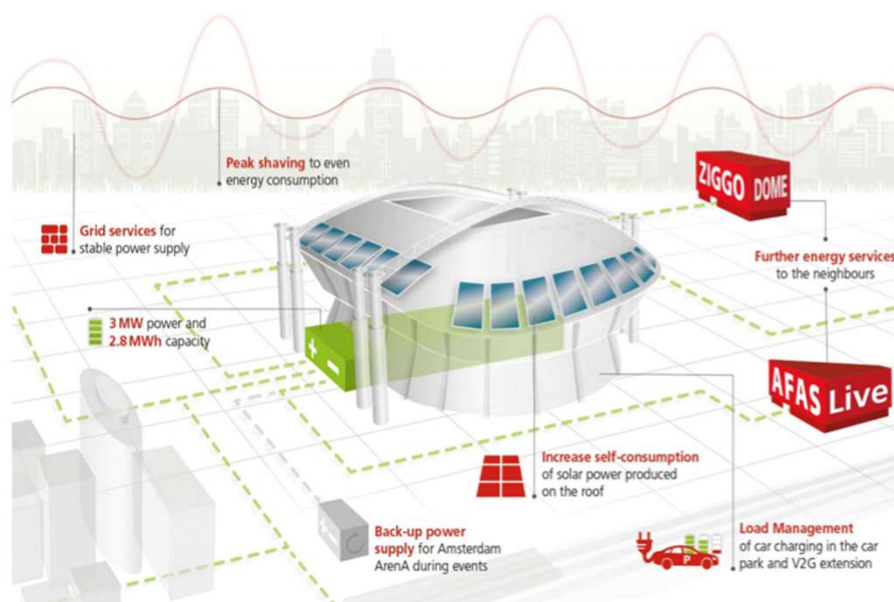
The future of e-mobility

Connected

Autonomous

Sharing

Electric



AMSTERDAM
ArenA

EAT·N
Powering Business Worldwide

Amsterdams
Klimaat & Energiefonds

THE MOBILITY HOUSE

NISSAN

PROJECT SUPPORTED BY

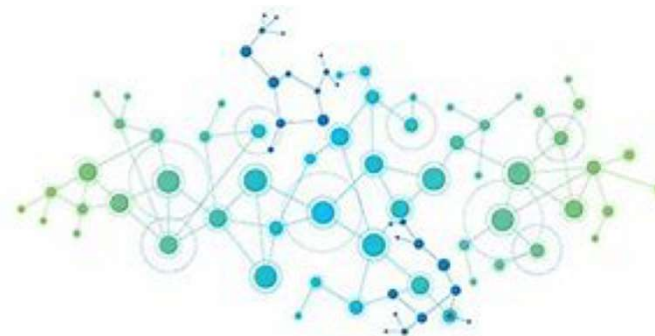
Interreg
North Sea Region
SEEV4-City

Gemeente
Amsterdam

Interreg
North Sea Region
SEEV4-City
European Regional Development Fund



Challenges



In conclusion

The question of sustainable transport is complex and lot will change, but:

The future belongs to those who recognize the **opportunities** brought forward by change.

‘Not taking risk’ is also very risky



Thank You

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**ZERO EMISSION
mobility for all**

