



# AVERE

The European Association  
for Electromobility

## Driving Change Together

**Philippe Vangeel**  
**Secretary General**  
**EV Summit Dublin 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

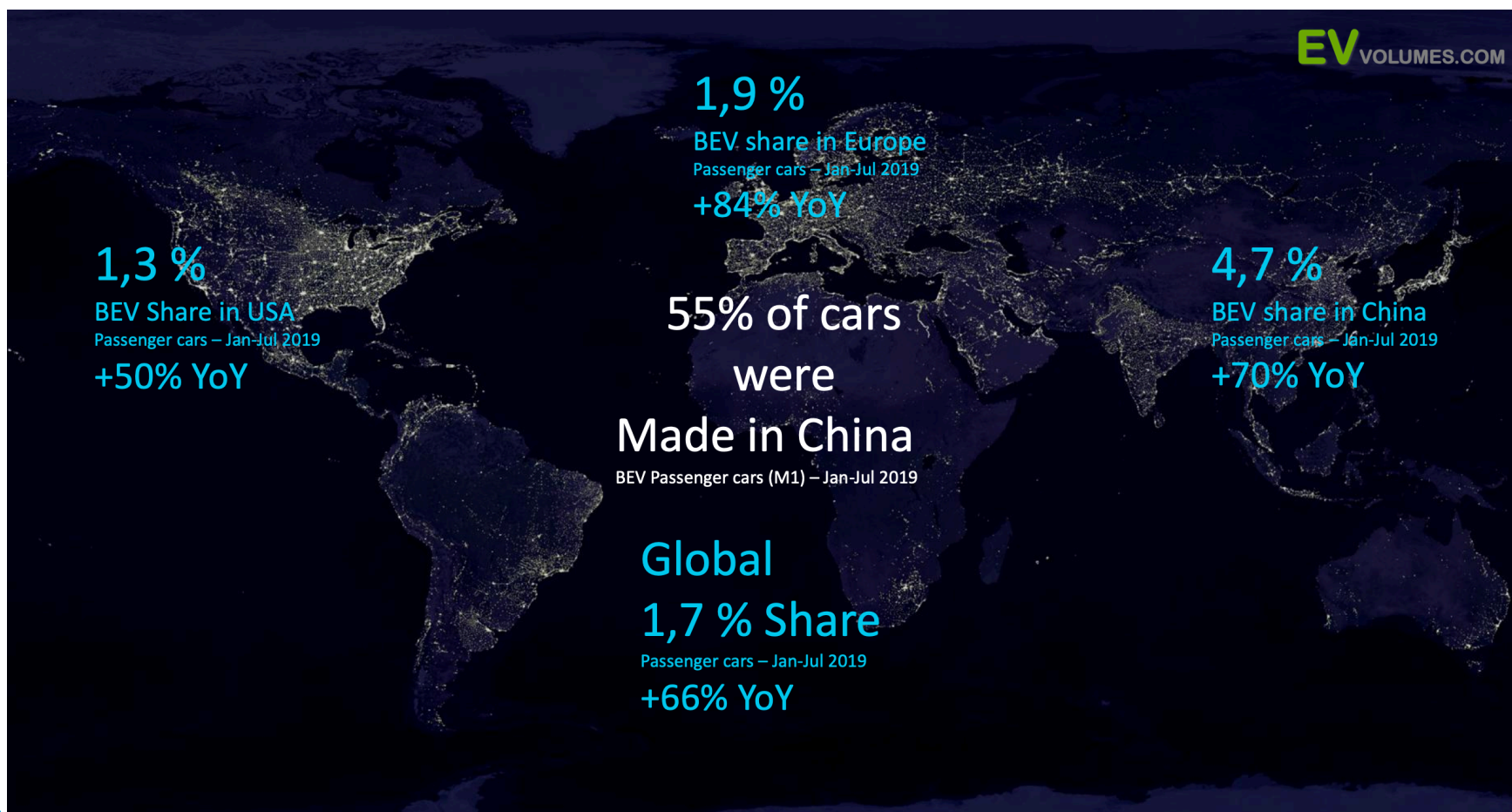
### Men 1969



### Men 2019

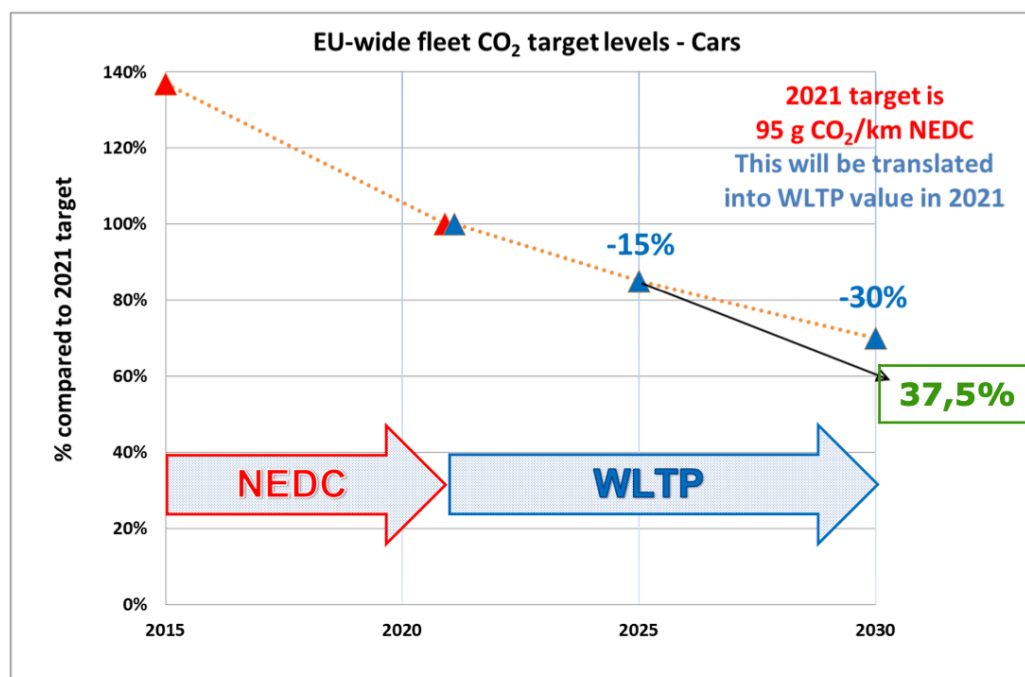


## Market leaders v best in the East



## Stricter EU-wide Co2 emission limits

New EU fleet-wide 2025 and 2030 targets - cars

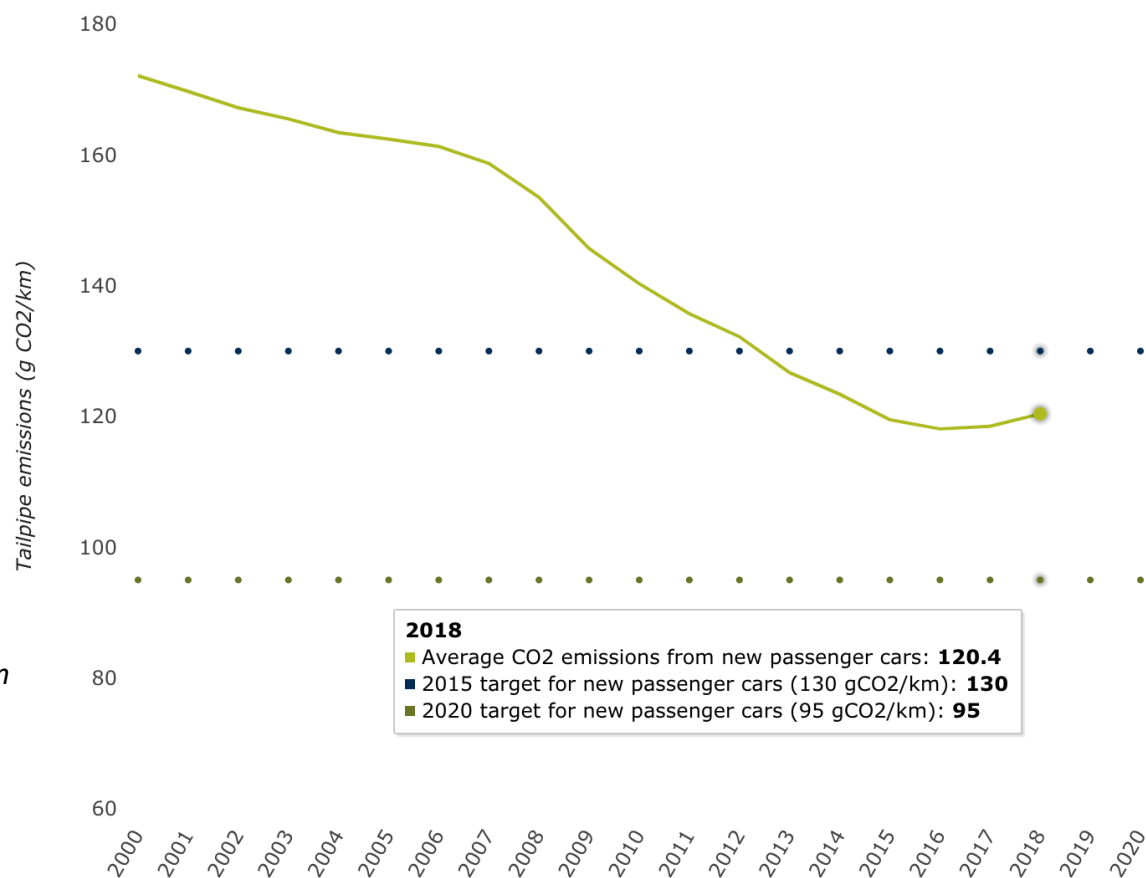


Source: European Commission



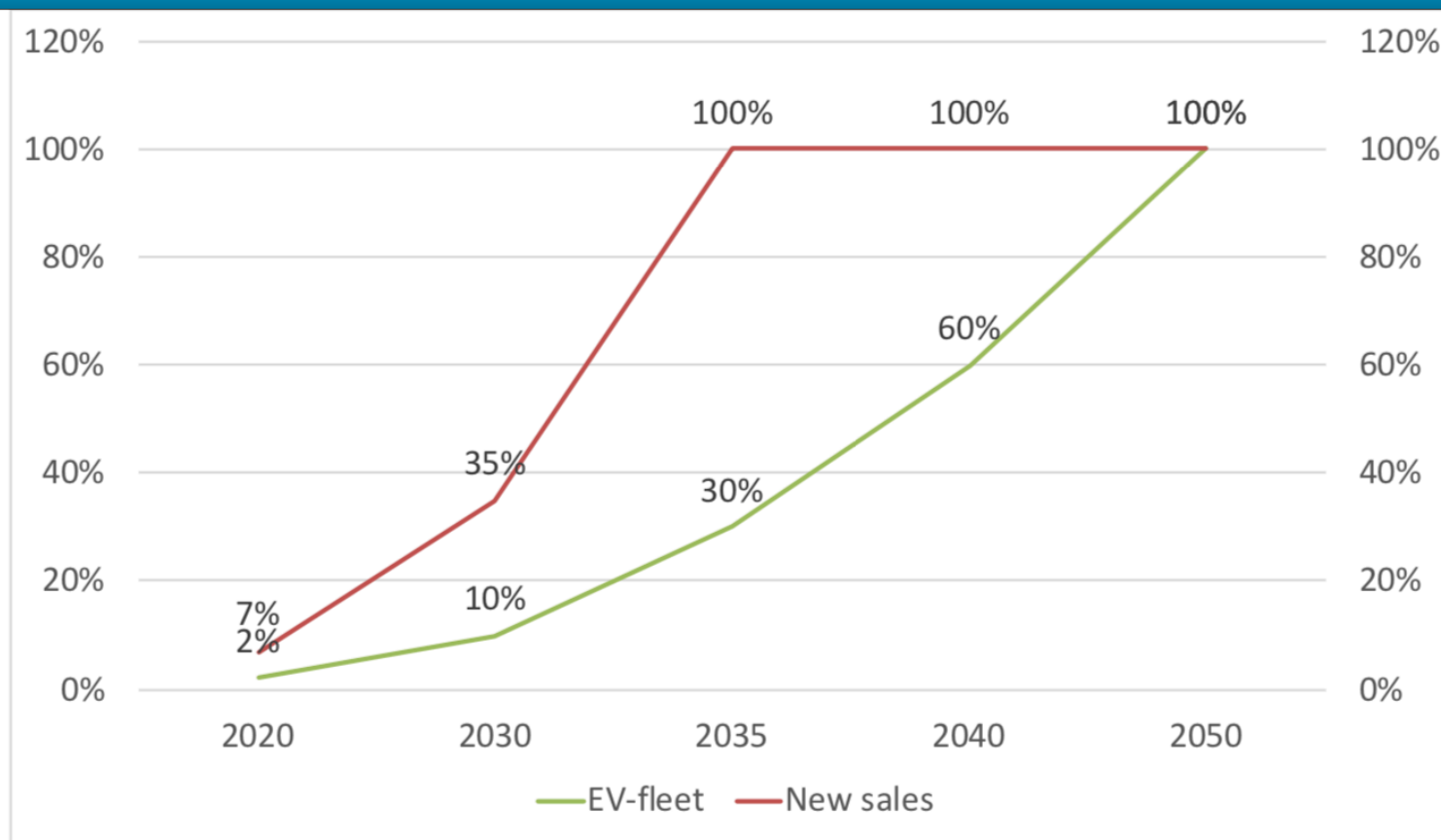
# Increasing Co2 emissions

Chart — Average carbon dioxide emissions from new passenger cars



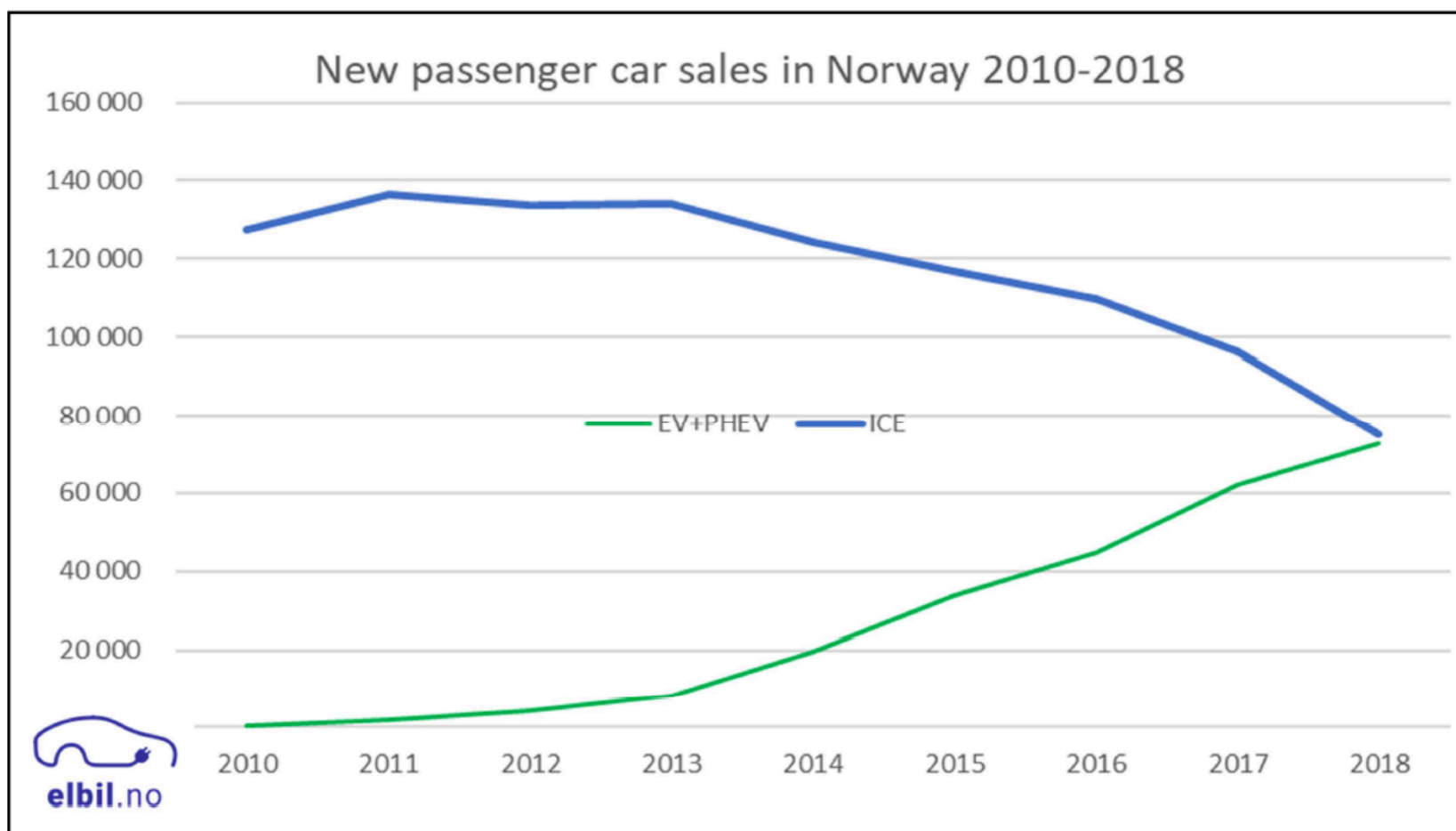
Source: European  
Environmental  
Agency

## 2050: 100% EV Fleet



Source: Joeri Van Mierlo, MOBI-VUB

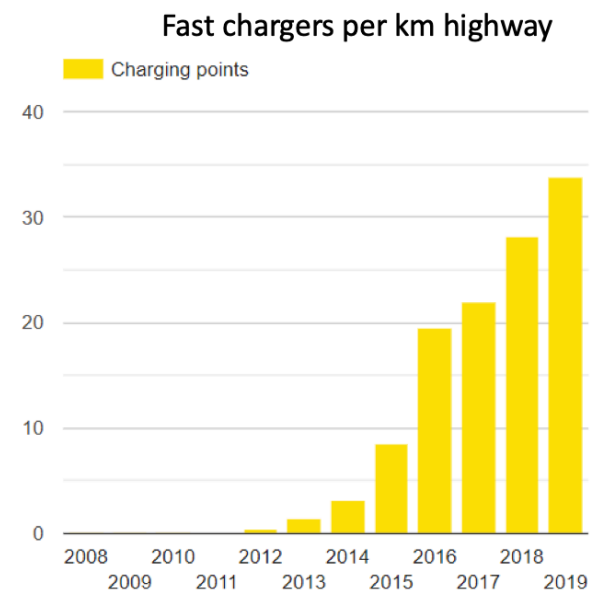
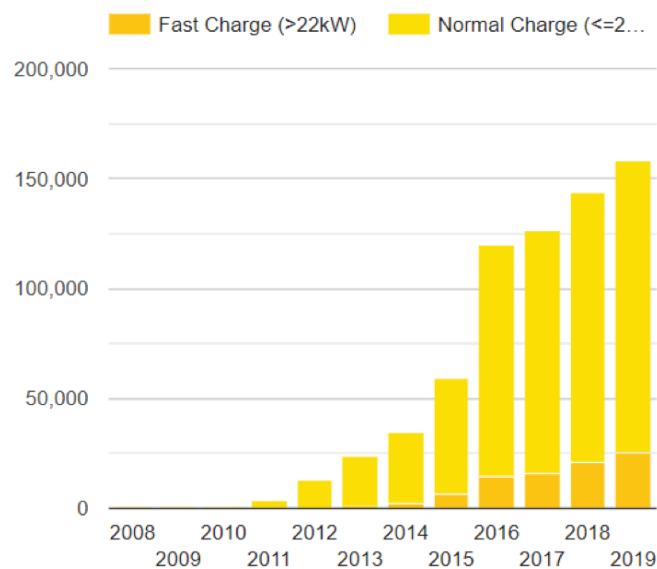
# Norway Today



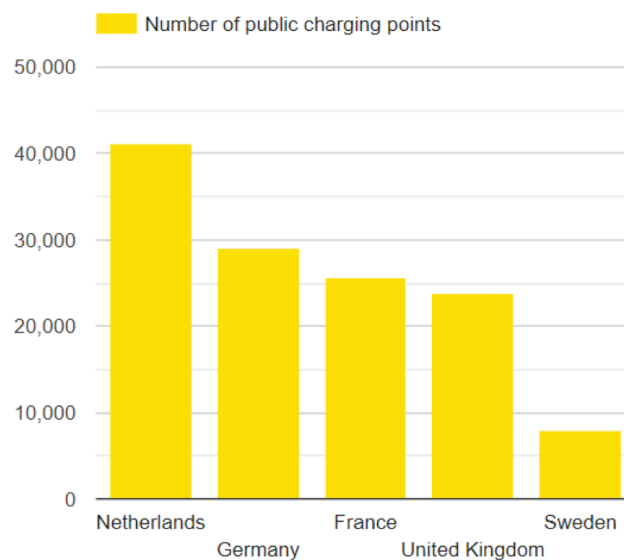




# Charging infrastructure EU



# Top 5 Countries charging infrastructure EU



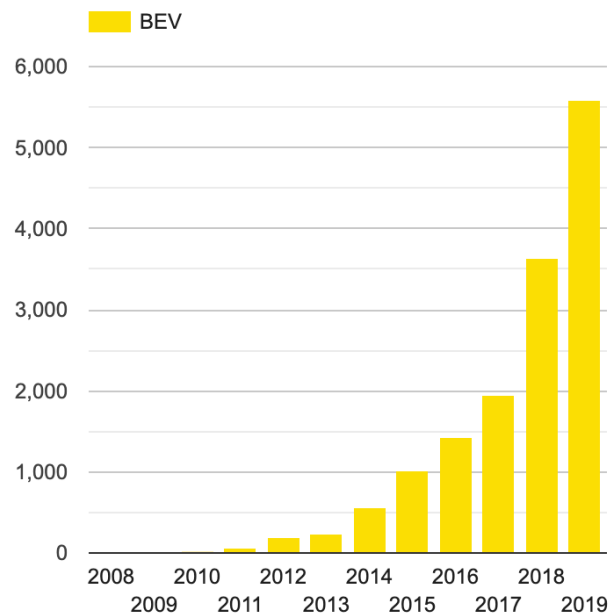
# EAFO Ireland EV fleet

## AF FLEET (2019)

Total number Alternative Fuels passenger cars

Categories

BEV

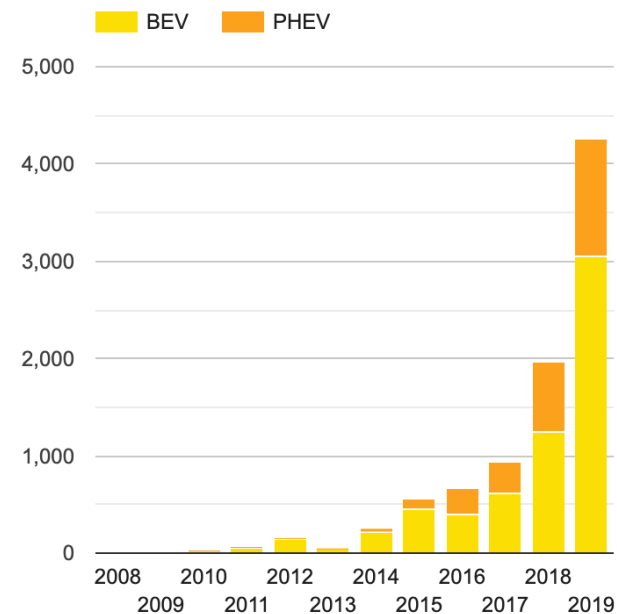


## AF NEW REGISTRATIONS (2019)

Alternative Fuel passenger cars new registrations

Categories

- all categories -



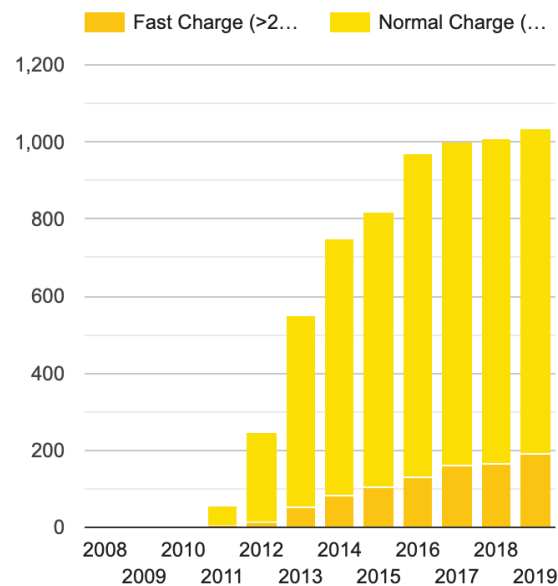


# EAFO Ireland charging

## NORMAL AND FAST PUBLIC CHARGING POINTS (2019)

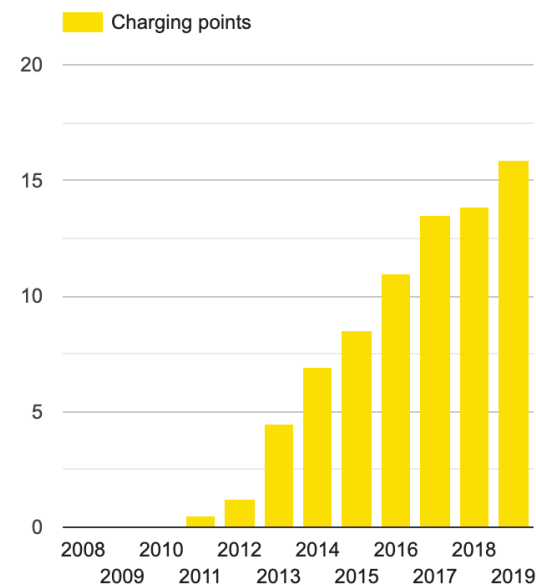
The total number of Normal and fast public charging points

Charger type - All -



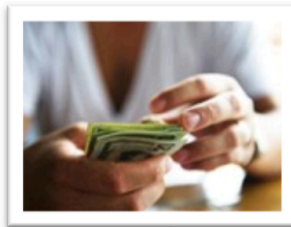
## FAST CHARGERS PER 100 KM HIGHWAY (2019)

Fast chargers per 100 km highway

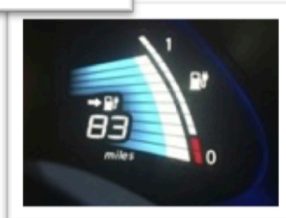


# Yesterday's barriers

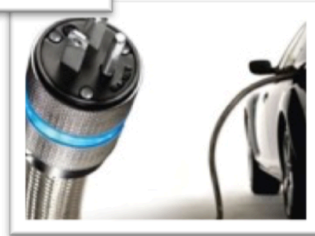
## Top 3 Barriers for EVs



High purchase cost



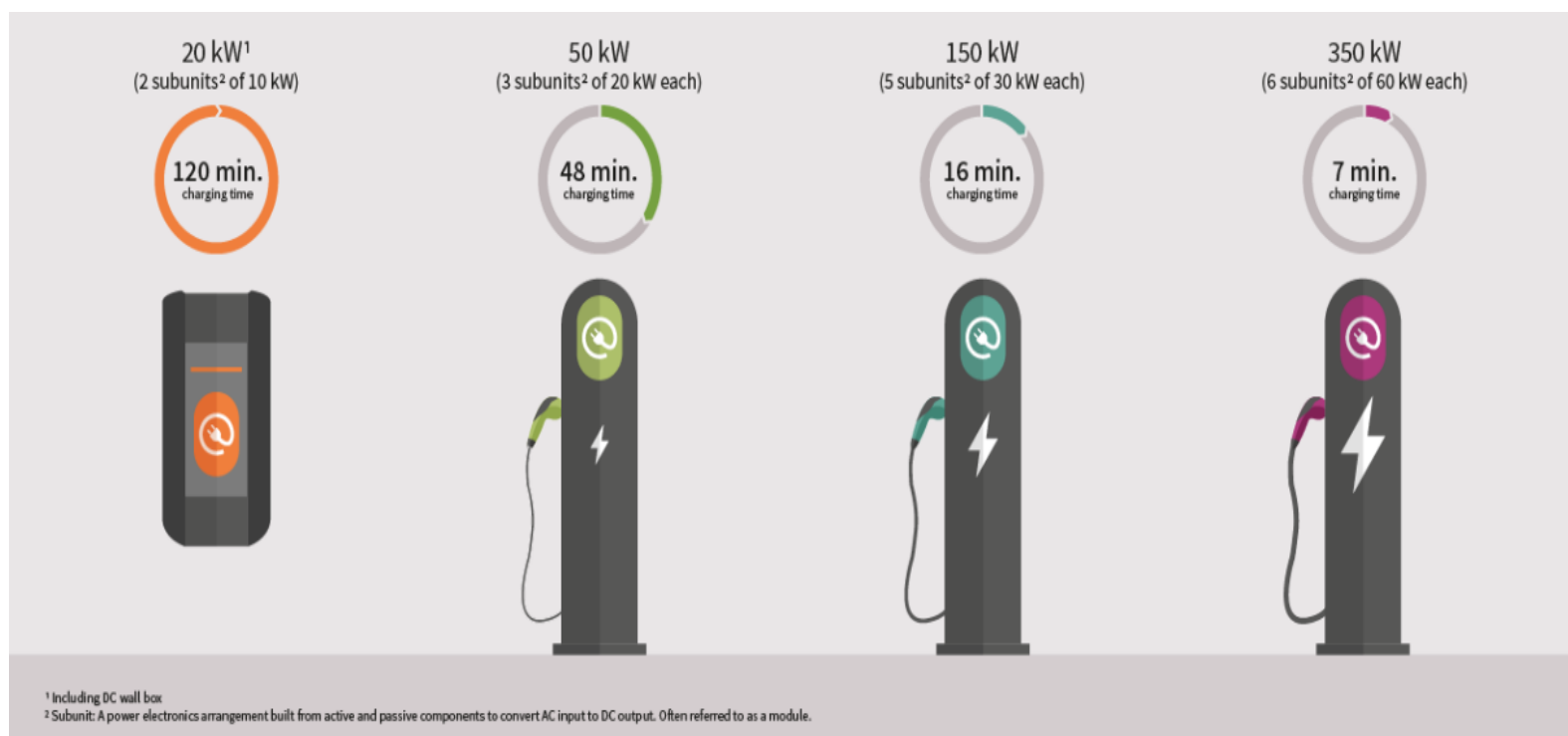
Limited driving range



Limited charging infrastructure

*Source: Joeri Van Mierlo, MOBI-VUB*

# Trends: shorter charging times



Source: Infineon

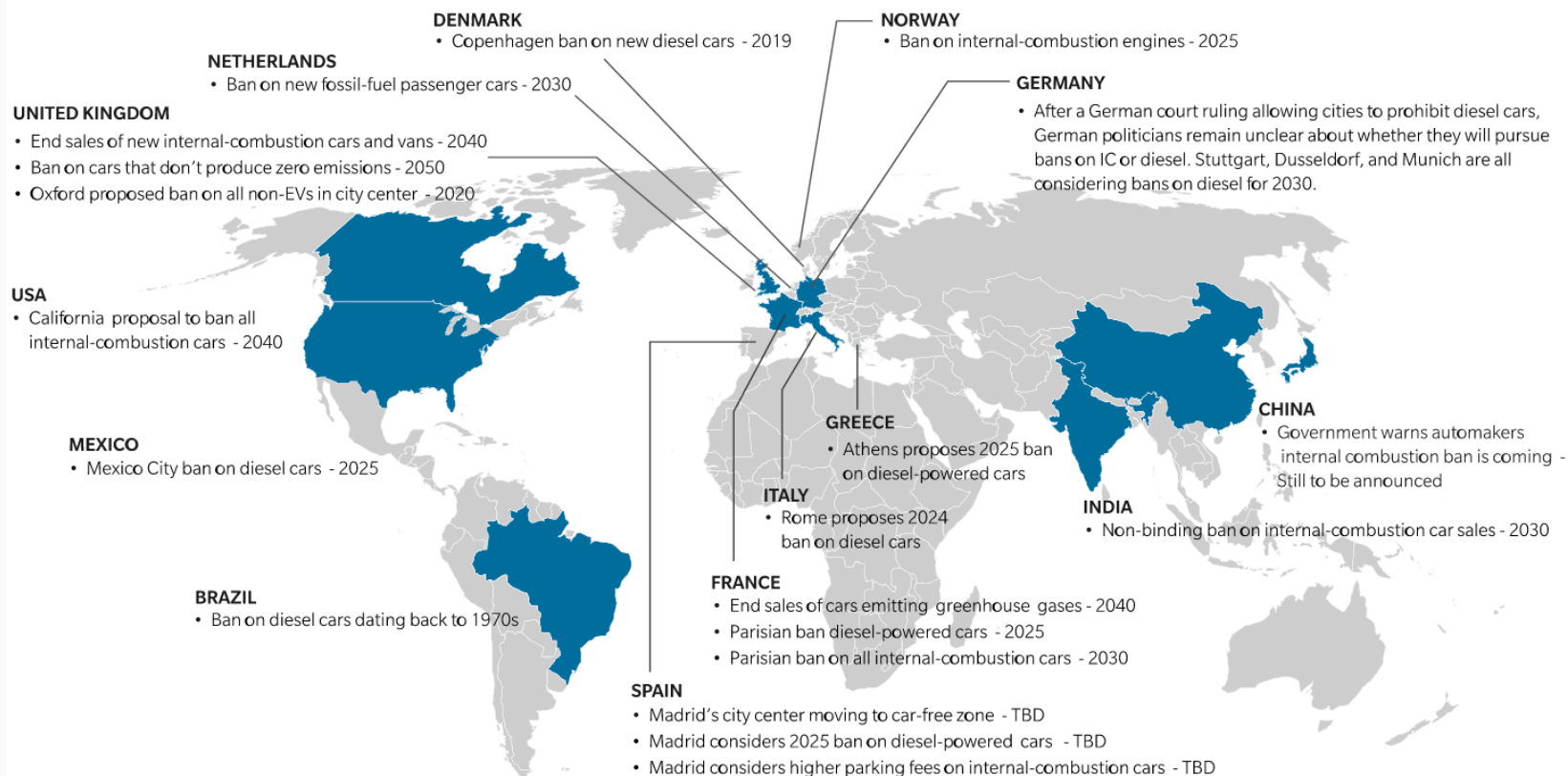


## Today: more charging stations than petrol stations



Source: EAFO

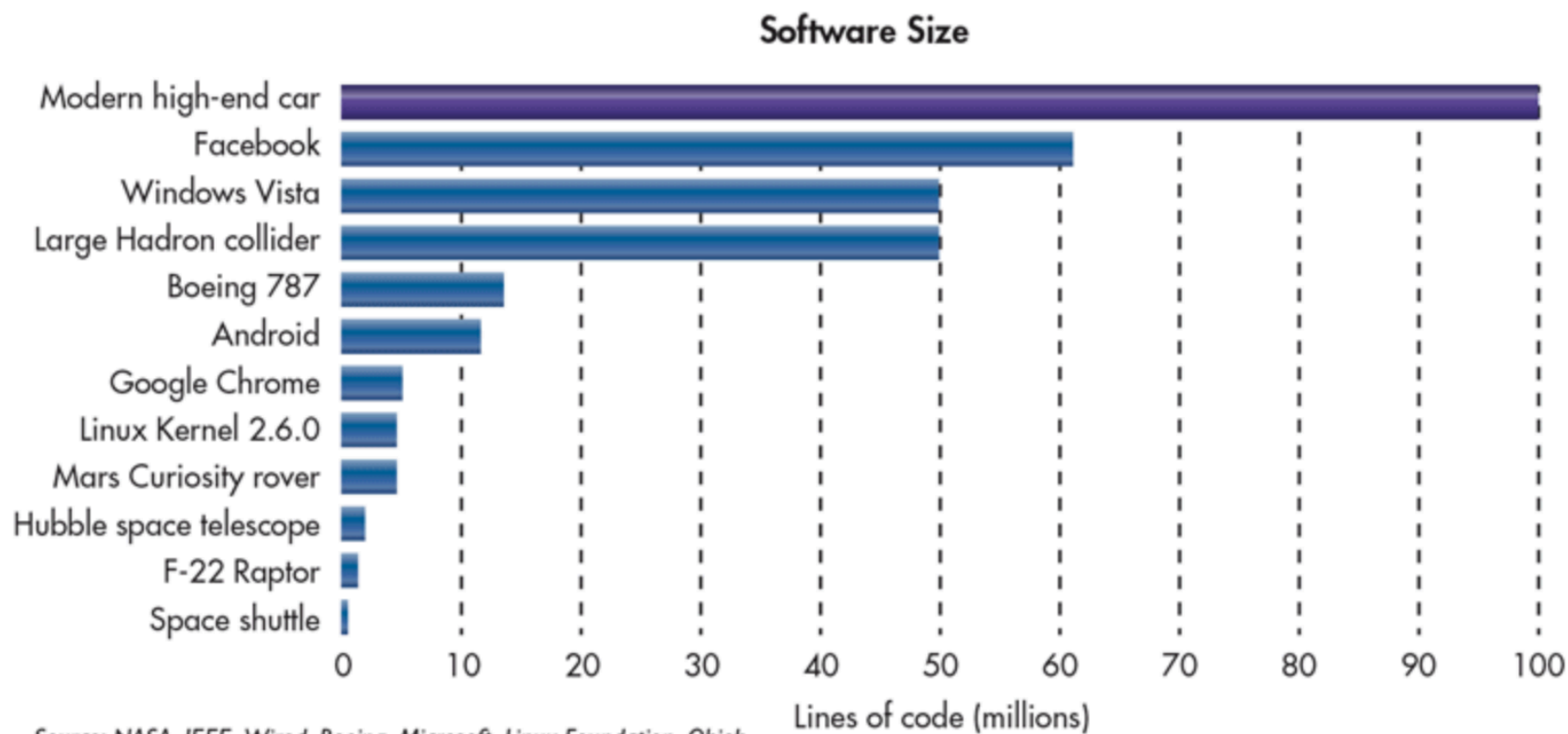
## COUNTRIES BANNING OR CONSIDERING A BAN ON INTERNAL-COMBUSTION (IC) VEHICLES



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

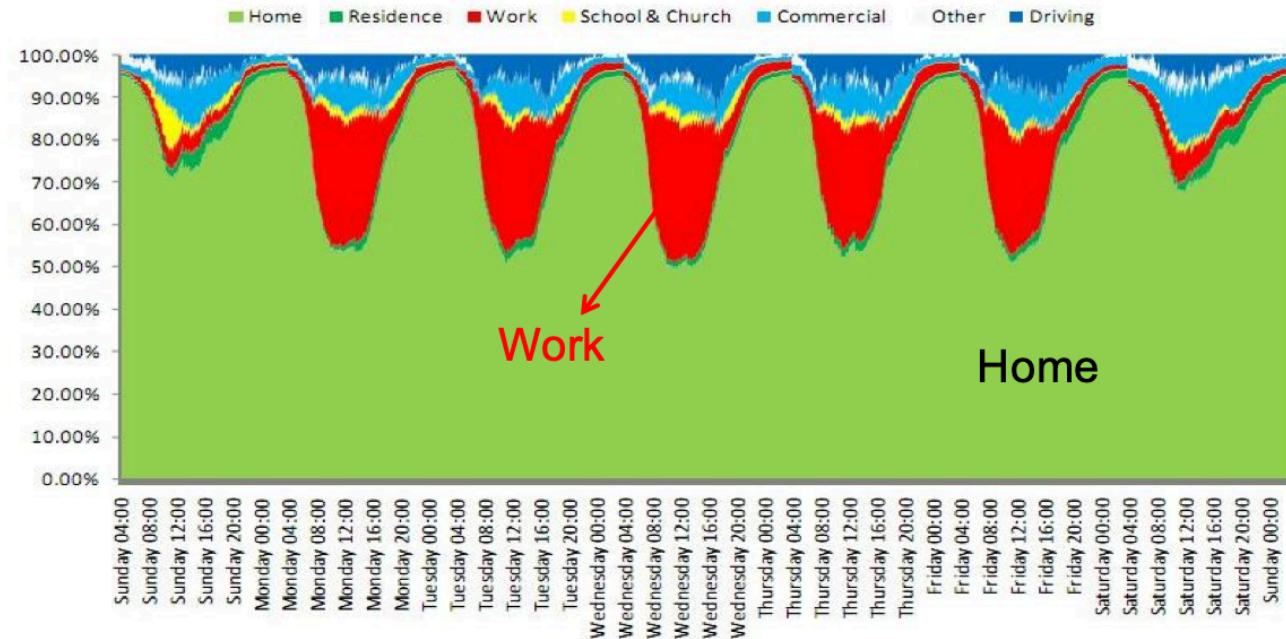


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## Infrastructure needs *Where is your car during one week?*



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



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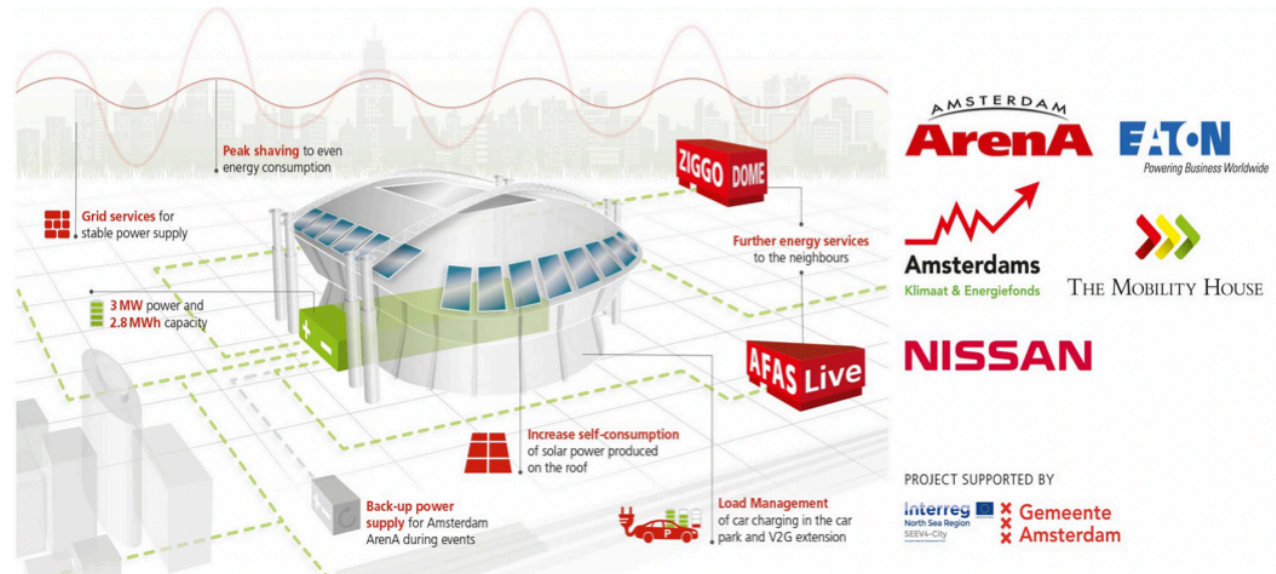
# The future of e-mobility

Connected

Autonomous

Sharing

Electric



**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**

The background of the central text box is a photograph of a highway at night. The image shows long-exposure light trails from cars in various colors (blue, yellow, red, purple) moving across the road. In the background, there are several high-voltage power line towers and a bridge structure under a dark sky. A faint hexagonal grid pattern is overlaid on the image.