



# E-mobility in The Netherlands

and our PIB

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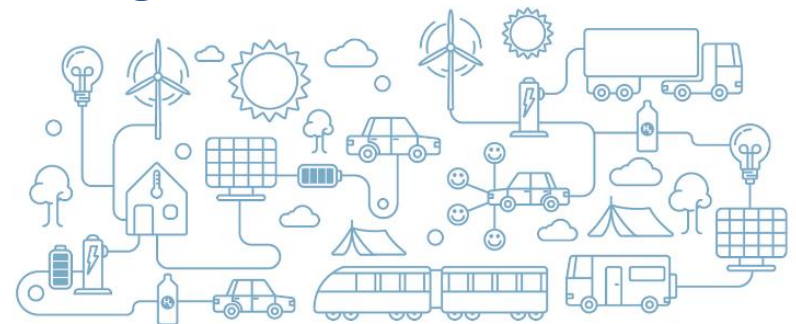
Programme coordinator

E-Mobility Workshop Zwentendorf  
May 25, 2018

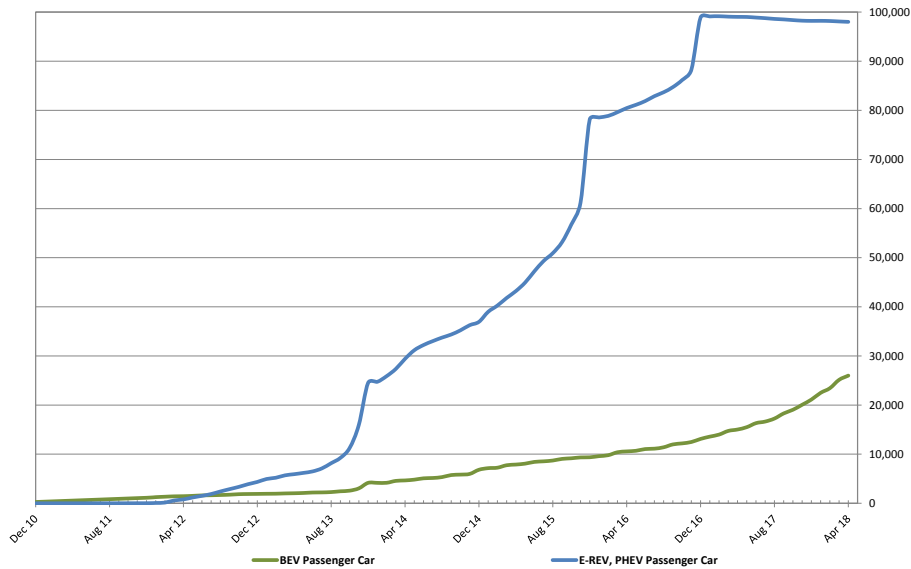
# E-Mobility the Dutch way: PPS is key

**Voluntary cooperation between government, knowledge institutions, civil society and business**

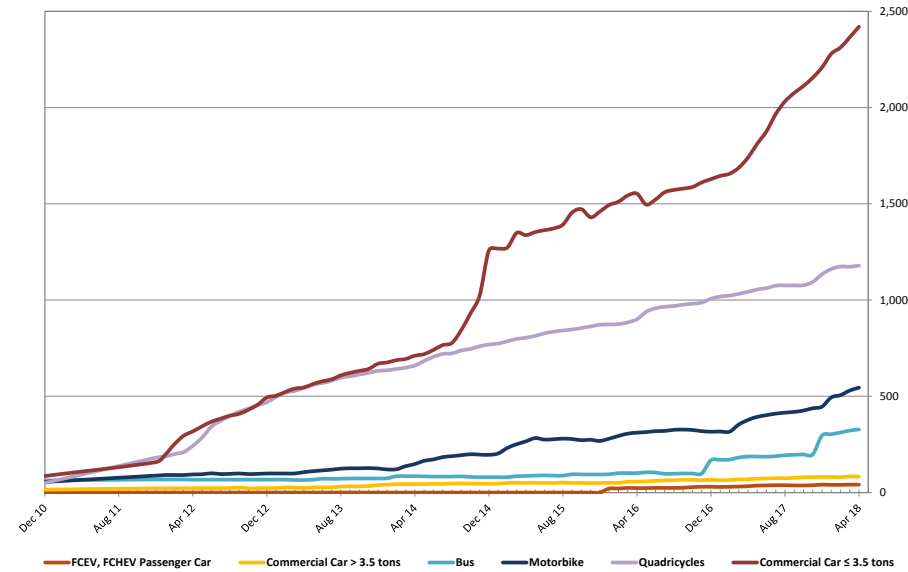
- Formula E-Team – to advise the Minister
- Green Deals – to tackle specific challenges
- Sectoral and thematic round tables - to reach a National Climate Agreement
- Partners for International Business Programmes – to stimulate business across borders



# Key figures EV in the Netherlands

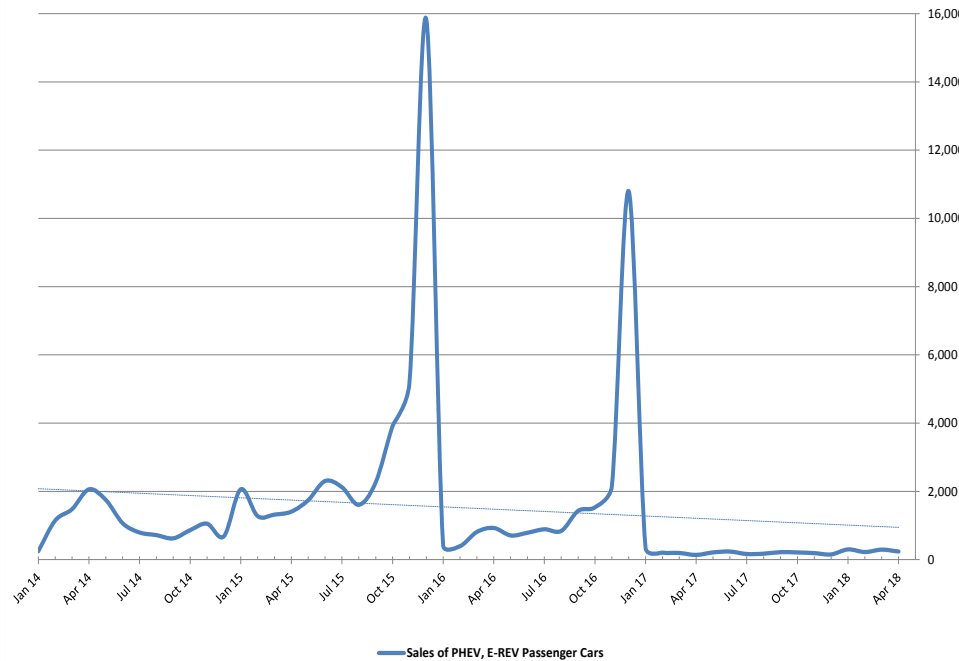


BEV and PHEV (note the scale!)

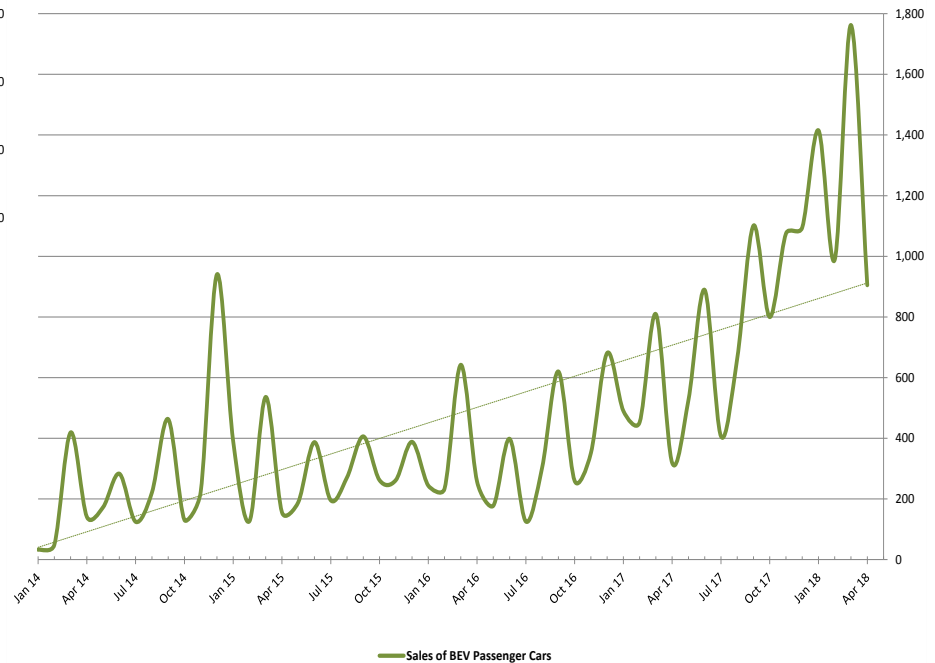


Other electric vehicles

# Sales are policy-driven

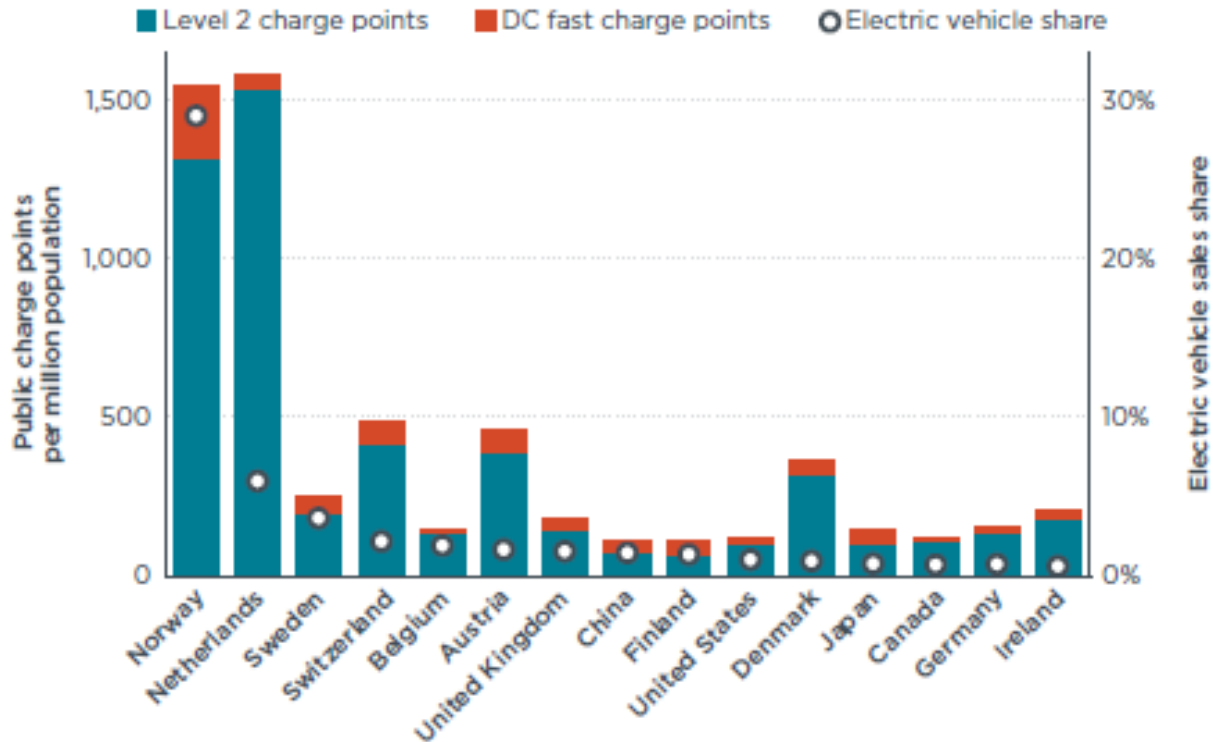


PHEV and EREV



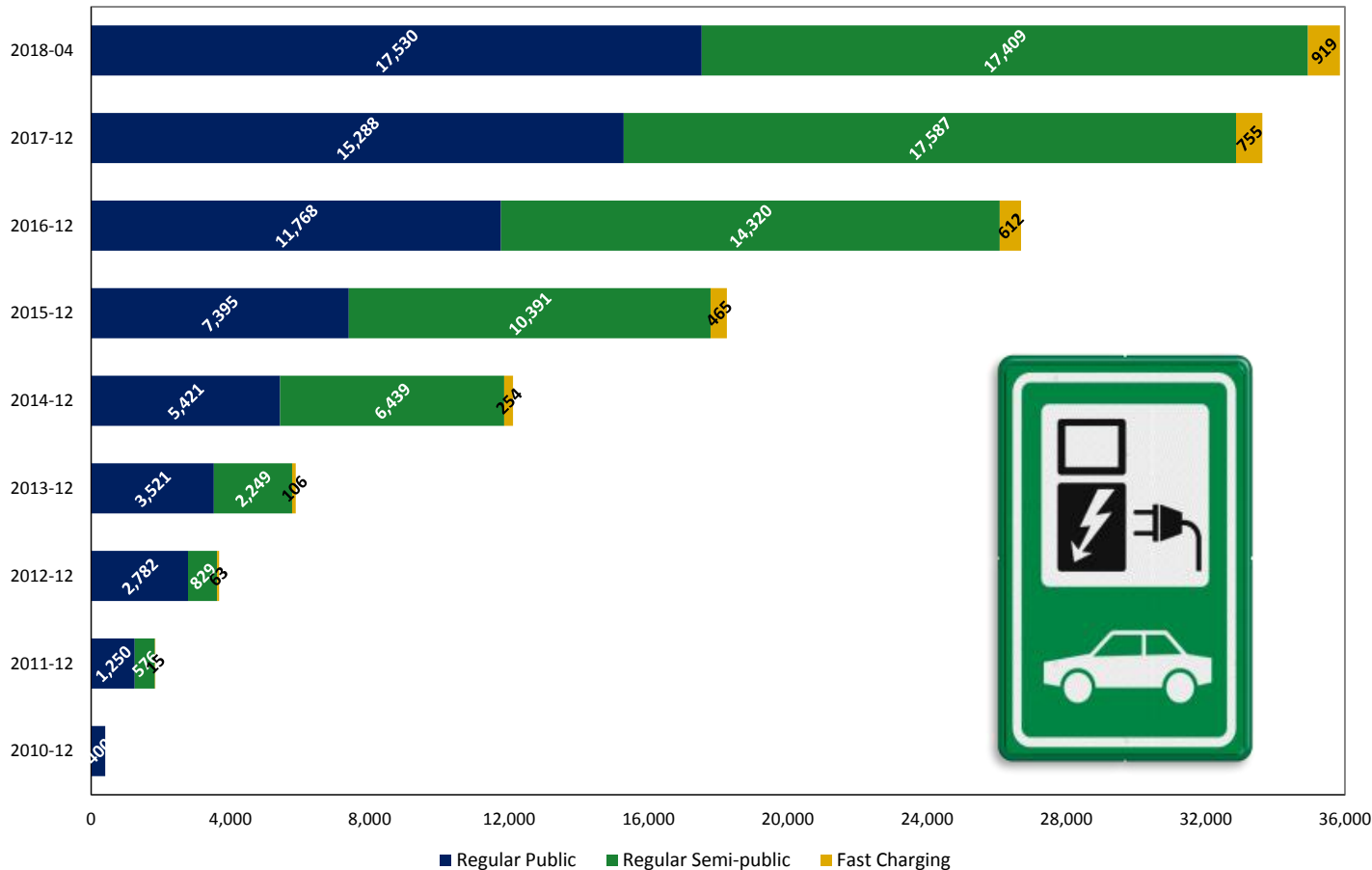
BEV

# Charging infrastructure versus sales



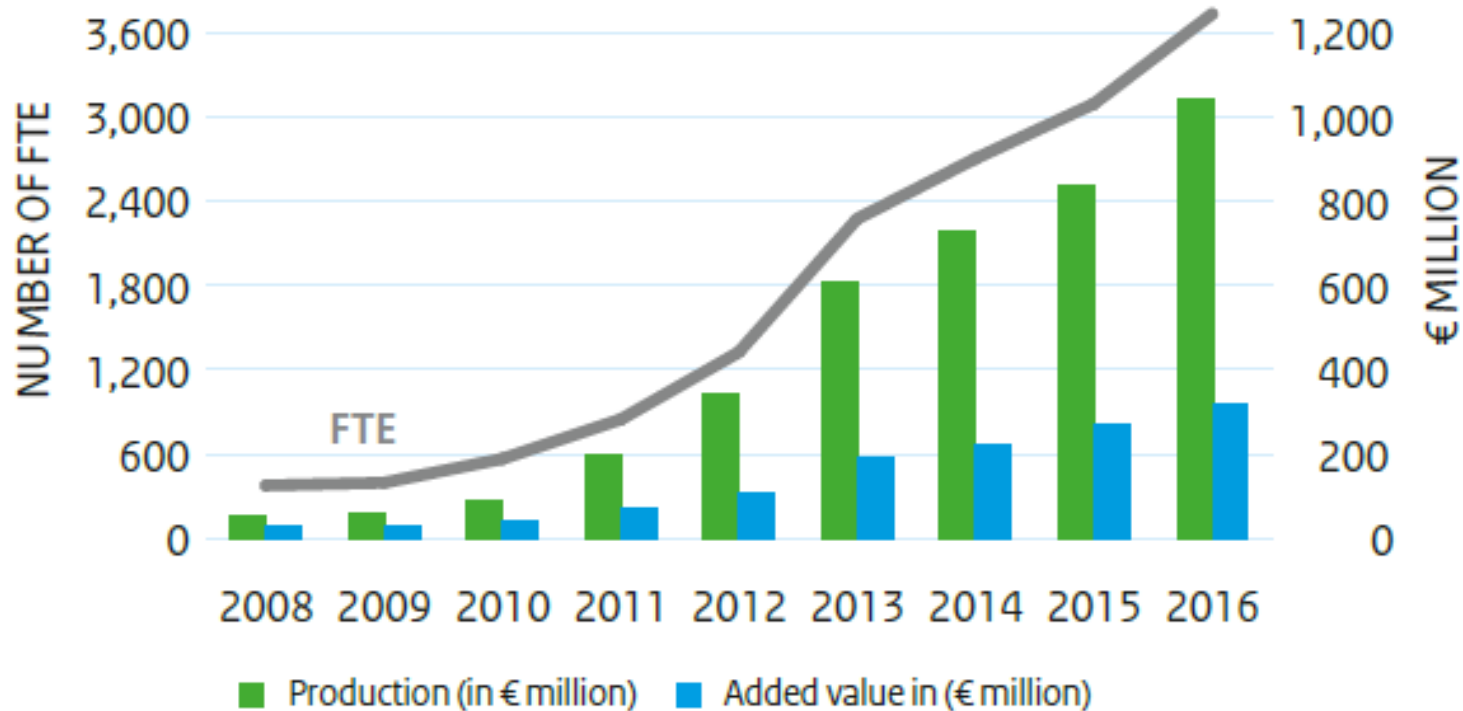
2016 EV sales and public charge points per million population in major national markets (ICCT)

# Infrastructure development



Plus: Easy & affordable roaming & almost 100% interoperability

# Employment



3,700 fte

Annual growth 40%

## Coalition agreement Rutte III

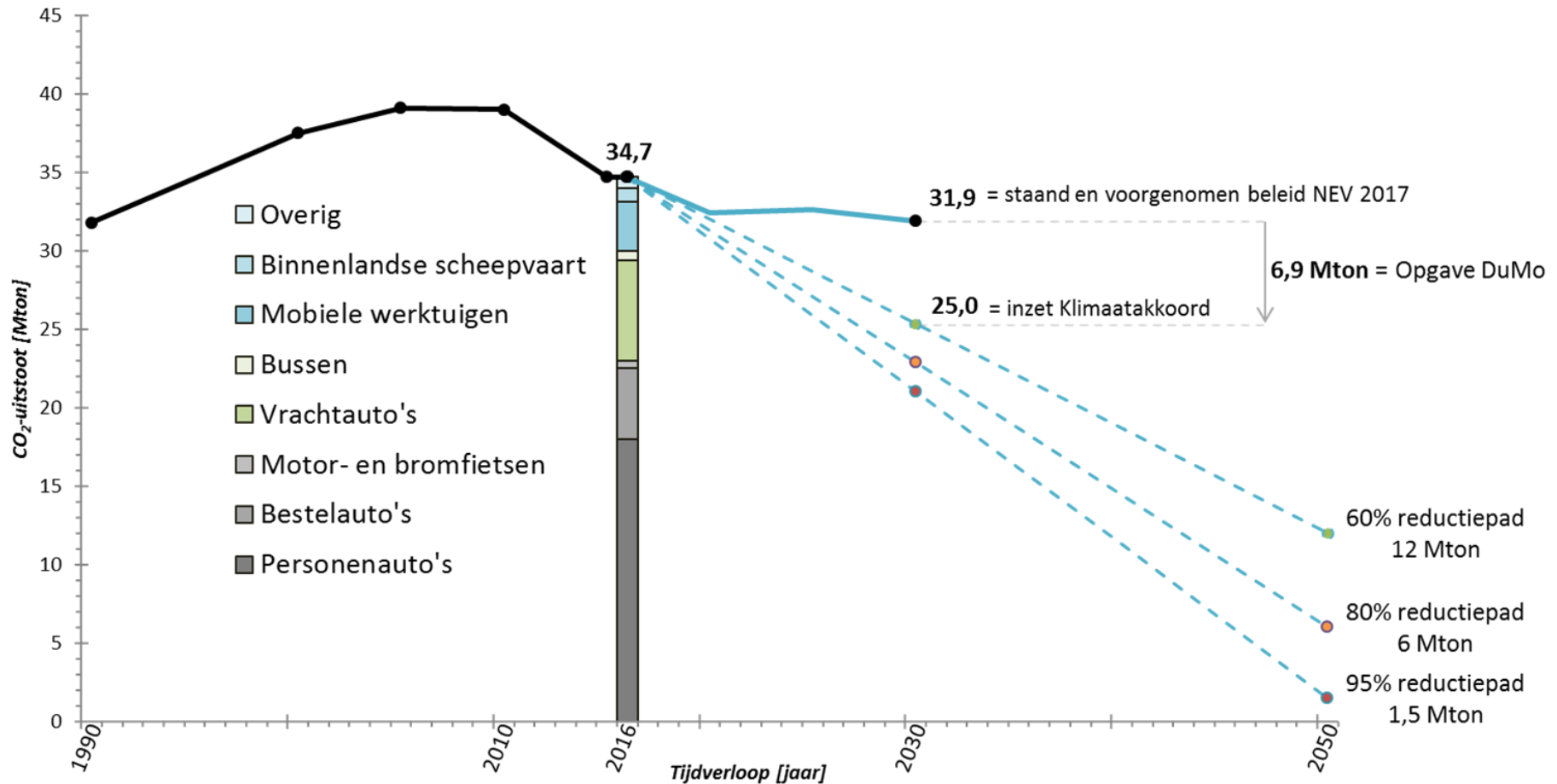
- The aim is for all new passenger cars to be **zero emission by 2030** at the latest. Tax incentives for zero emission cars will be phased out as this ambition is achieved
- We will ensure that **charging infrastructure** is in place to meet the needs of the new stock of electric vehicles. Market parties will continue to bear primary responsibility for supplying and operating charging equipment
- By introducing **low emission zones**, and **reducing parking charges** for zero emission vehicles, the municipal authorities have instruments at their disposal to improve air quality in inner cities





# Transition path mobility sector in focus

- Rutte III government: 1.5 degrees target requires an intensified effort, setting the bar higher than the EU has done
- Measures are introduced to prepare the Netherlands for a 49% reduction in greenhouse gas emissions by 2030



## 2030 perspectives

- All new passenger cars zero emission
- All public transportation zero emission
- City distribution zero emission in G30 (30 largest cities in the Netherlands)



# E-mobility potential in the energy transition

- Local renewables and car battery used for storage and buffering
  - Smart charging
  - Net balancing
- Interoperability
- Open standards and protocols



# Open standards and protocols

A flourishing open market: Let everyone participate

- We need market growth
- It will provide opportunities for many businesses
- Consumers deserve choice, innovation, price competition

- Open standards
- Roaming
- Government monitoring



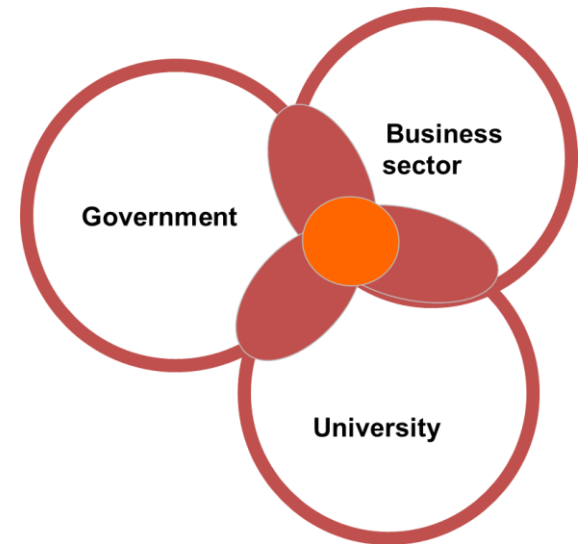
## Challenges for the future



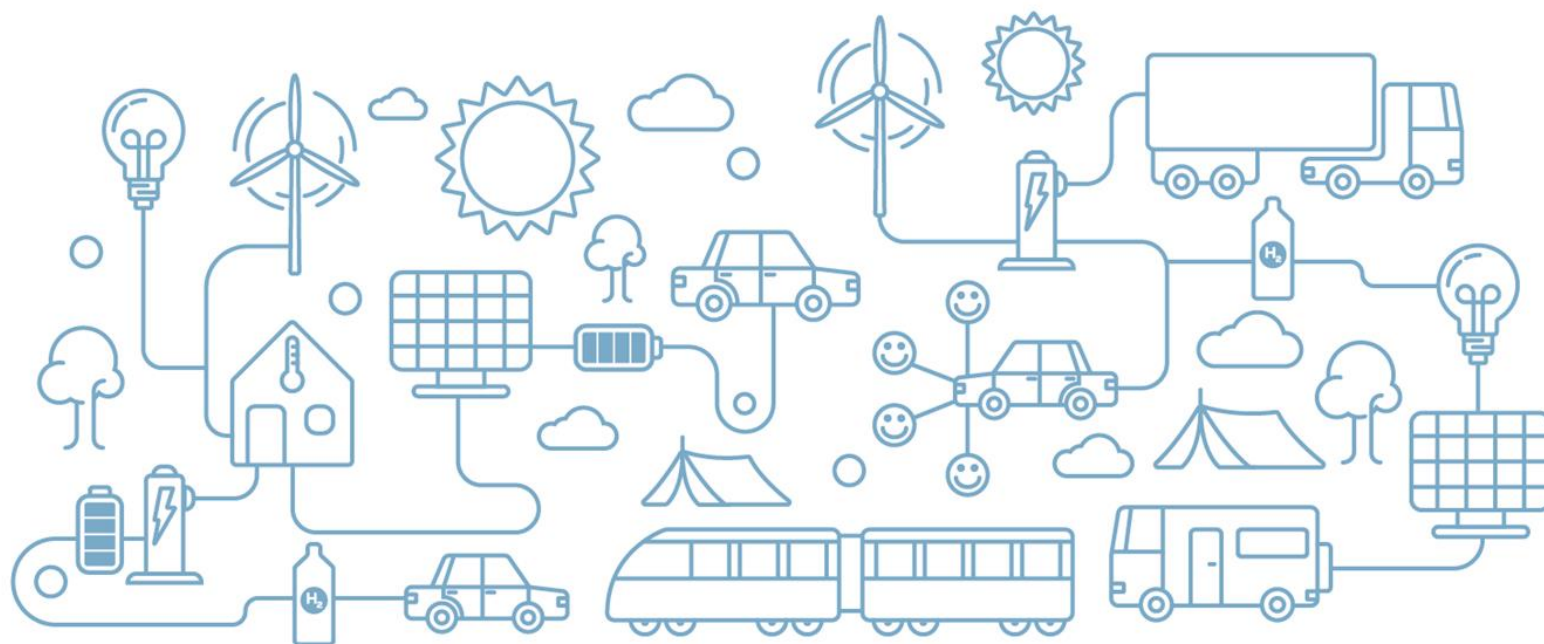
- Decarbonisation of other vehicle types: vans and heavy duty trucks

# Partners for International Business

- Part of Dutch economic diplomacy
- Public-private partnership
- Fixed period
- International cooperation with a specific foreign country or region
- Increase cooperation; increase knowledge; exchange knowledge; boost green economic growth



# Erfolgsformeln verbinden: nachhaltige Mobilität und Energie in Österreich & in den Niederlanden 2017-2019



## Levels

- Government-to-Government (G2G)
- Knowledge-to-Knowledge (K2K)
- Business-to-Business (B2B)

## Themes

- Zero-emission Tourism
- (Heavy) transport and delivery
- Smart charging und interoperability



# Partners and cooperation partners



We will be delighted to welcome more Austrian cooperation partners!

## Work programme 2018:

- E-Mobility Study Visit to NL
- Workshop(s) Interoperability, smart charging and affordable roaming
- Deliver 2 Strategic agenda's for knowledge development
- Start development Smart e-Truck corridor
- Pilot e-Camper Rental



## June 5 – 7: e-mobility study visit to Amsterdam and Groningen

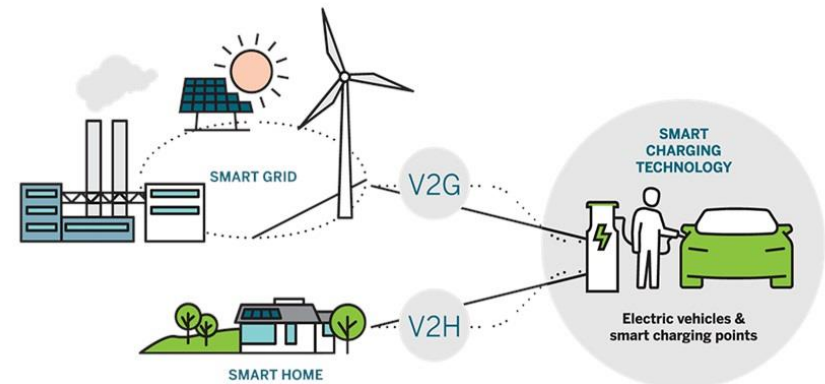
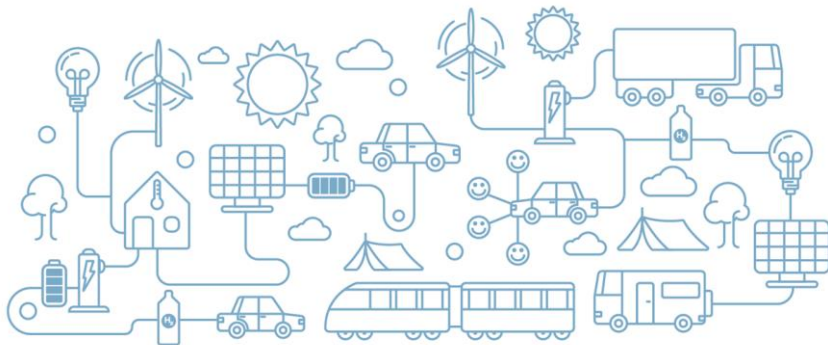
Topics: e-taxis, hydrogen trains, e-car sharing,  
autonomous transport, energy transition, networking  
and cooperation opportunities and agreements

Interested? Talk to me and we'll see what is possible



# *Smart charging, affordable roaming and interoperability are essential for both the energy transition and e-mobility*

Workshop in Tirol in September (during FAFGA).  
*Interested? Talk to me...*



## Strategic knowledge agenda's

Ongoing: Tourism – please let yourself be interviewed by Jessica and Marijn

Just about ready: Heavy Transport – 50 interesting questions that need answering

In the PIB we do not stop at this, but work on the next steps as well ...

A map of Europe showing a purple route from Vienna, Austria (marked with a green pin 'A') to Rotterdam, Netherlands (marked with a red pin 'B'). The route passes through Germany, including cities like Frankfurt, Stuttgart, and Regensburg. Other countries shown include Belgium, Luxembourg, and the Czech Republic. The text "Smart e-Truck Corridor Vienna-Rotterdam Starting with a Demonstration" is overlaid on the map.

## Smart e-Truck Corridor Vienna-Rotterdam Starting with a Demonstration



# Thank you for your attention!

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