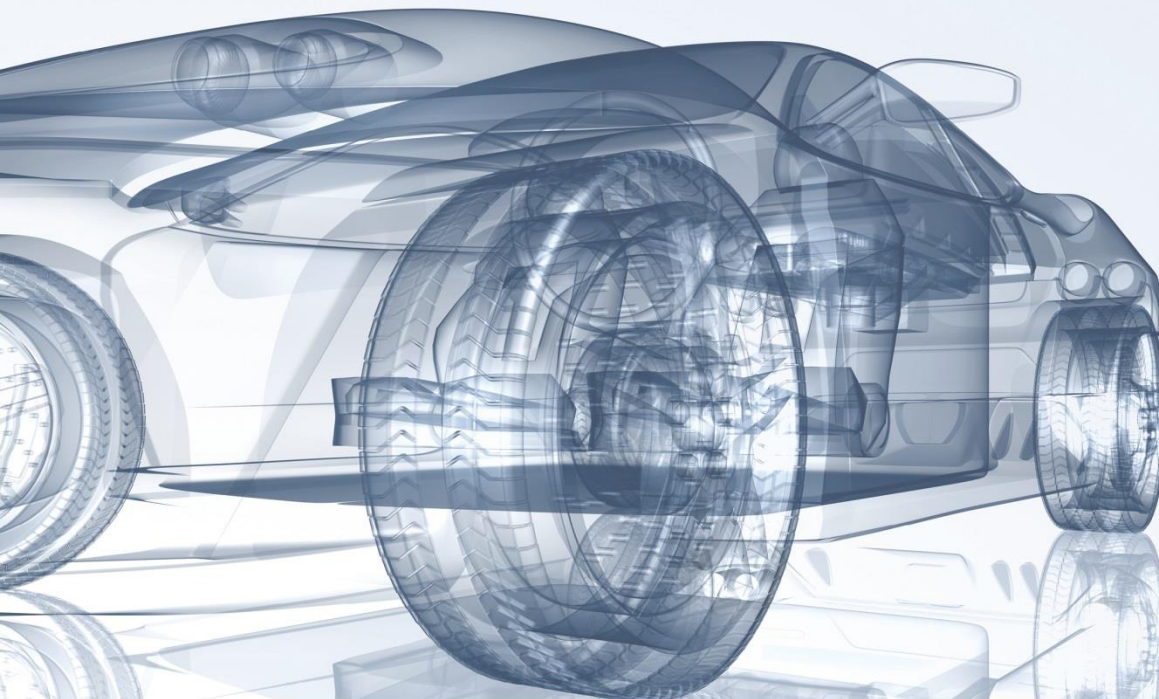


# evs 30



The 30th International  
Electric Vehicle  
Symposium & Exhibition

**October 9–11, 2017**  
Messe Stuttgart, Germany

[www.evs30.org](http://www.evs30.org)

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# The Dutch Approach to E-mobility

**Bert Klerk, Chair  
Formula E-Team**



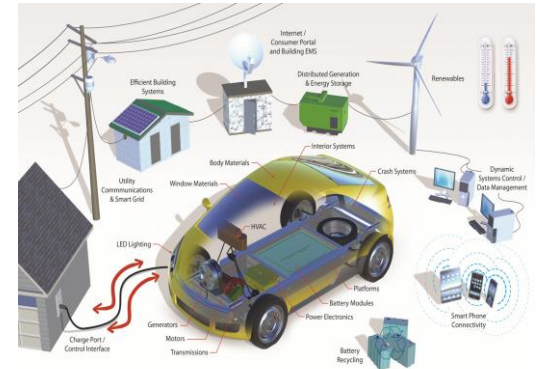
# Agenda

- Public Private partnership in e-mobility
- Dutch vision and sustainable transport goals
- Green Deal electric driving 2016-2020
- Zero emission Public Transport;
- Public Charging Infrastructure
- Innovation and Acceleration Programme E-mobility
- E-mobility sector



# Public Private Cooperation e-mobility

- The Netherlands : a country par excellence suitable for e-mobility: relatively small and willing to cooperate
- The Dutch “polder” model: for e-mobility: the Formula E-Team
- Since 2009:
  - Actionplan with 65 million euros by the government,
  - Formula E-team was started, Prince Maurits chair
- 2016: Green Deal Electric Driving 2016-2020
- Top down and bottom up: workinggroups





- 2020: 10% newly registered cars have e-drivetrain
- 2025: 50% newly registered cars have e-drivetrain of which 30% is BEV
- Nationwide network of charging points
- Netherlands as a frontrunner in e-mobility
- 2020: >10.000 FTE in EV sector
- EVs attractive for consumer market



A joint contribution in realizing economic growth and energy transition through e-mobility in the Netherlands



- The Netherlands is the most 'charging-point-dense' country worldwide
- More than 30,000 (semi) public charging points
- Estimated 75,000 private charging points
- Fast charging along highways and in urban regions: 173 locations for fast charging
- **All charging interoperable**
- Smart Charging and V2 grid solutions



The Netherlands  
Knowledge Platform  
Public Charging  
Infrastructure



# PPC: Zero emission public transport

Provinces, municipalities and public transport companies have agreed that:

- In 2025 all new buses in public transport are zero emission
- In 2030 all buses in public transport (5000) are zero emission



- Multi-annual, several millions
- Initiated by universities and companies, also imbedded in innovation policy
- Still in development, themes are:
  - Heavy Duty Commercial Vehicles
  - Personal / Light Electric Vehicles
  - Infrastructure & energy markets
- Interference and consumer behaviour



# Customized Vehicles Innovation and Living labs (Heavy Duty)



Serial Hybrid  
Garbage truck



Handling



- E bike:
  - 16% of all Dutch inhabitants has an e-bike
    - Of these 16% has a high speed e-bike.
    - 29% of all new sold bikes is an e-bike.

## Living LAB e-distribution

- Scooters:
  - 2018 only Euro4 norm



# Dutch E-mobility sector



ICT and  
Components

E-buses



Smart mobility



Charging  
infrastructure  
& roaming



**Join us; visit the Holland e-Mobility lounge**

**THANK you for your attention**

**Bert Klerk**

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