



**EUFAL**  
Electric Urban Freight and Logistics

EUFAL and pro EME - Workshop - Copenhagen, 19/11/2018

# Electric Vans & Delivery Vehicles

---



Renault Kangoo Z.E. (Q: [GoingElectric](#))



Streetscooter Work L (Q: [streetscooter.eu](#))



Nissan e-NV 200 (Q: [heise.de](#))



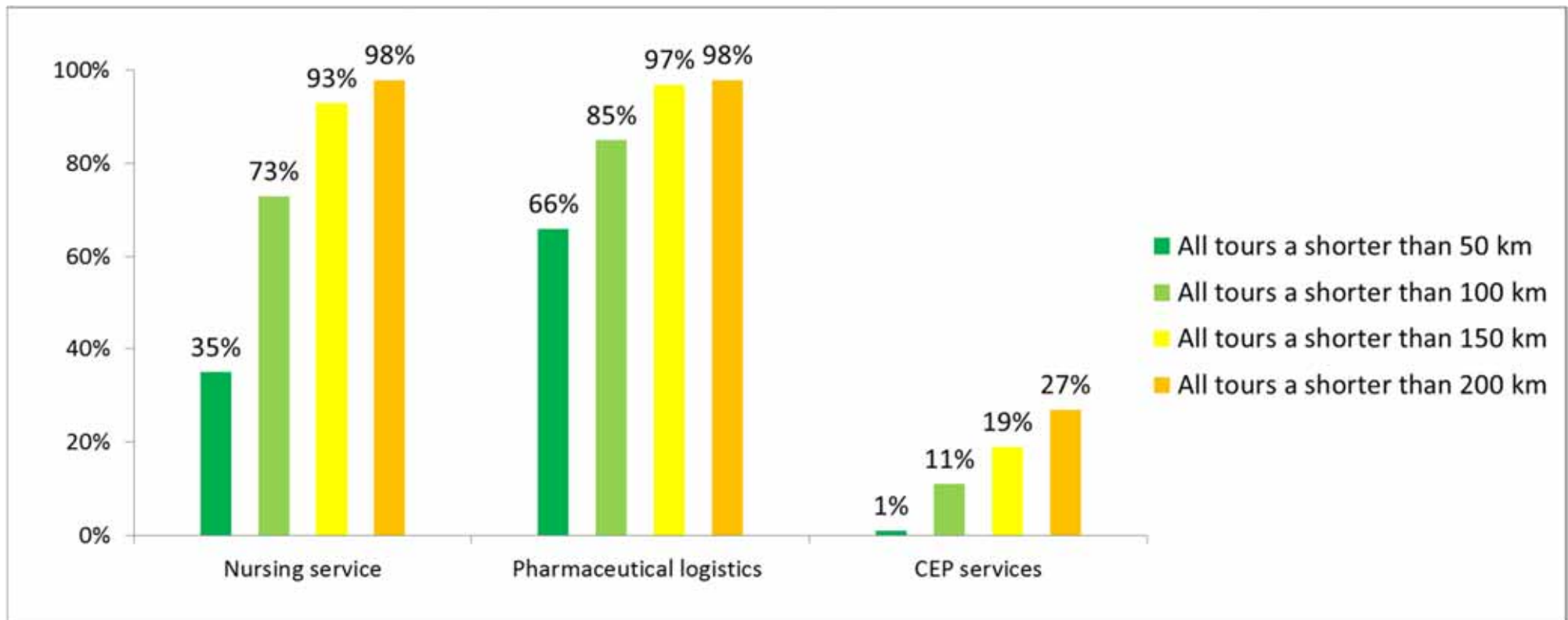
Streetscooter Work XL (Q: [GetMobility](#))

# Technical Capabilities

---

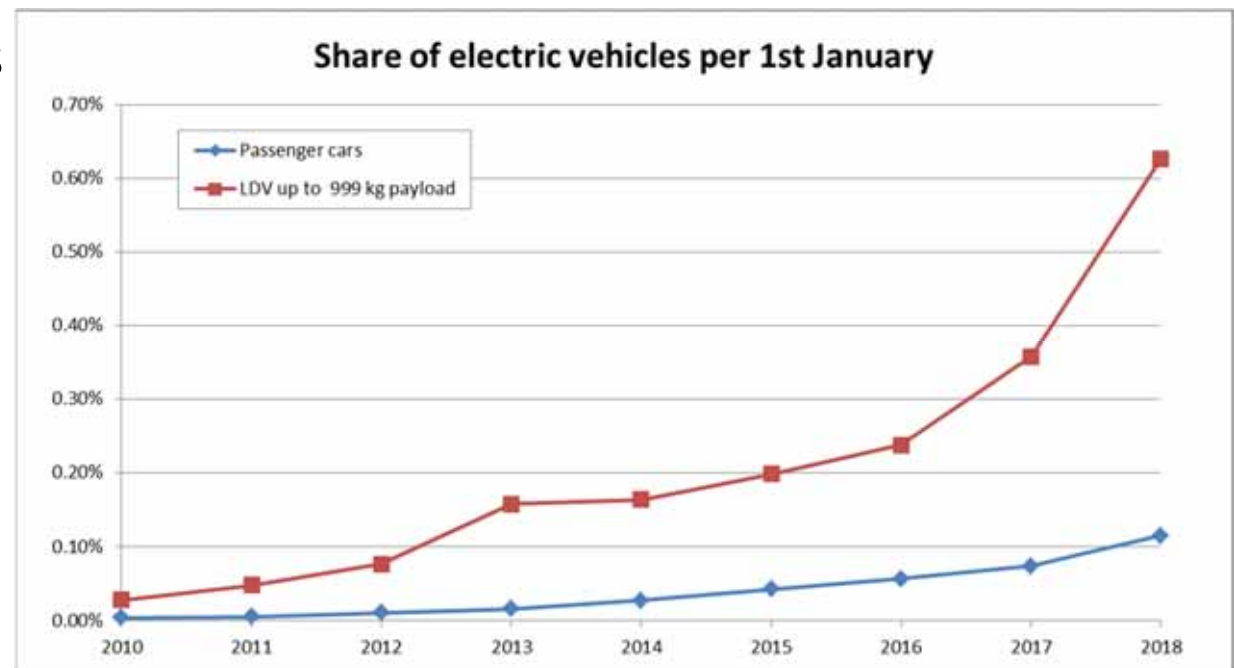
- Range of electric vans and delivery vehicles (standard cycle):
  - Citroen Berlingo 170 km
  - Peugeot Partner 170 km
  - Nissan e-NV200 270 km
  - Renault Kangoo 270 km
  - Streetscooter Work 50-80 km
- Deployable radius of 120-200 km realistic
- Further vehicles announced:
  - e-Sprinter 150 km
  - e-Crafter 173 km

# Requirements in companies



# Registrations of EVs in Germany

- Beginning of 2018:
- 54.000 e-passenger cars
- 11.000 e-light-duty vehicles



# Costs of electric vehicles

---

- Uncertainties in companies concerning EV costs
  - High procurement costs
  - Low operating costs not transparent
- Cost advantages already given today in use cases
- No reliable information available for companies
- Declining battery prices, but still high vehicle prices

→ Deutsche Post DHL Group: 8.000 Streetscooter in use - maintenance costs 60-80% lower compared to conventional vehicles

# Recommendations for action

## Companies

- should get the possibility to test electric vehicles
- need information on cost advantages
- can extend the potential of electric vehicles by a change in use patterns
- should use fleet management tools for mixed fleets
- More supply of suitable electric vehicles is needed

# The EUFAL project

- The project in short
- Objectives
- The EUFAL platform of exchange
- Methodology of the project
- EUFAL key results
- Scientific work packages
- Consortium





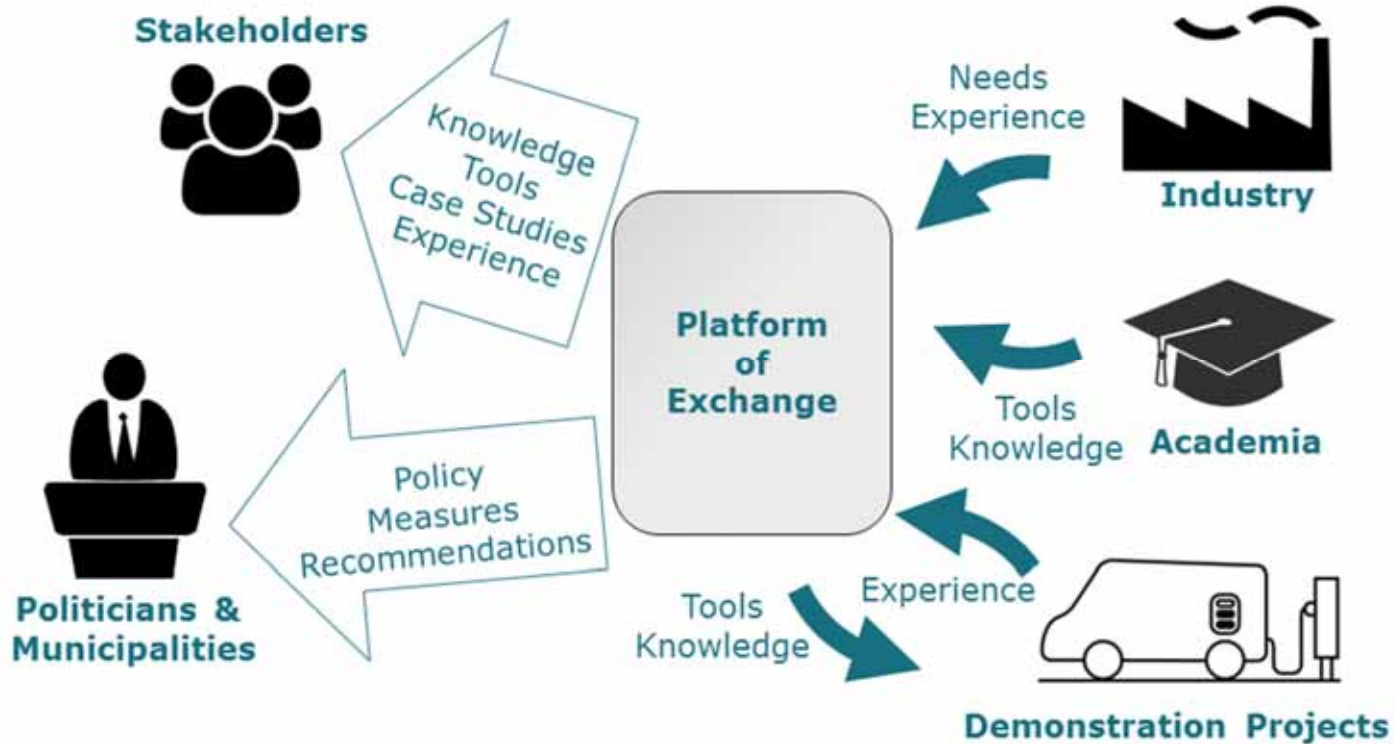
## The project in short

- The project EUFAL (Electric urban freight and logistics) aims at providing a platform of exchange as decision support system for companies willing to integrate electric vehicles (EV) in commercial vehicle fleets.
- The platform of exchange will provide tools for companies at different stages of EV implementation - early planning of EV use, implementation of EV use, optimization of the EV implementation.

# Objectives

- To analyze and develop tools as decision support of companies with commercial vehicle fleets
- To develop and implement a web-based information and knowledge exchange platform which provides decision support tools
- To support companies with information for EV implementations.
- To demonstrate the use of the platform of exchange
- To demonstrate commercial EV fleets at different levels of development.
- To assess and evaluate the developed platform of exchange
- To consider user feedback and expert knowledge in the whole project

# The EUFAL platform of exchange



# EUFAL key results

---

## Key Result 1 - EUFAL Platform of Exchange

An integrated Platform of Exchange incl. a Demo Version, Key target group: fleet operators and transport companies

## Key Result 2 - Knowledge Support for Policy

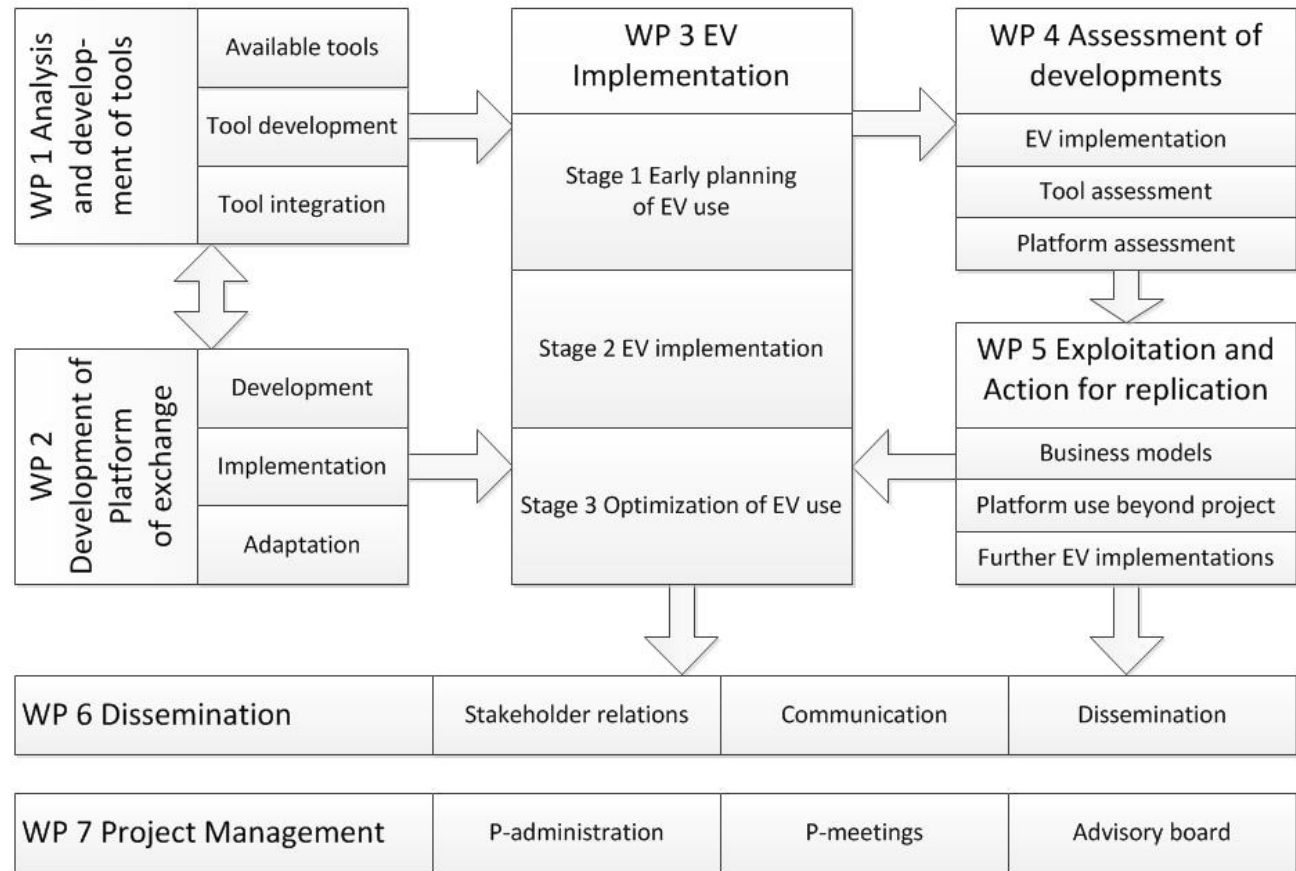
Deeper scientifically proved knowledge for policy support, Key stakeholders: policy makers

## Key Result 3 - Scientific Knowledge, Analysis & Support

Key users: scientific community, fleet managers and operators



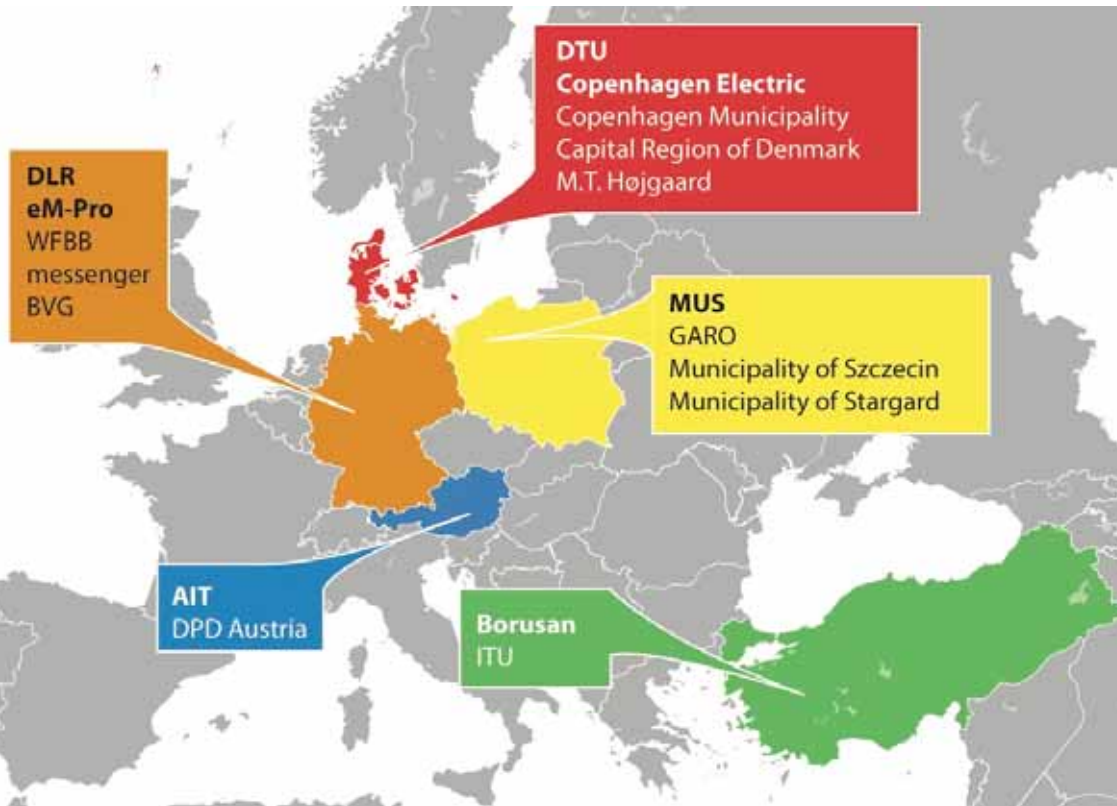
# Scientific work packages



# EUFAL Consortium



**CopenhagenElectric**  
- The Regional EV Secretariat



# Aim of the workshop

- **Input for the project**
  - Which information is available to fleet managers?
  - Which information is needed for the shift to electric mobility?
  - Where can the EUFAL platform support companies
- **Input for the participants**
  - Get to know about best practices in commercial EV use
  - Learn more about TCO calculation for EV
  - Get information on how to support the shift to electric mobility

# Thank you for your attention!

---



Contact:

DLR Institute of  
Transport Research

Coordinator:

Jens Klauenberg / DLR  
[Jens.klauenberg@dlr.de](mailto:Jens.klauenberg@dlr.de)

[www.eufal-project.eu](http://www.eufal-project.eu)



The project EUFAL is funded by the ERA-NET Cofund Electric Mobility Europe (EMEurope). EMEurope is co-funded by the European Commission within the research and innovation framework programme Horizon 2020 and national and regional funding organizations (Project No. 723977). [www.eufal-project.eu](http://www.eufal-project.eu)