# Berlin-Brandenburg is Going Electric

Gernot Lobenberg
Head of Berlin Agency for Electromobility eMO

# Invitation for international cooperation

- **Best practice exchange** with other regions to different topics (e.g. policy strategies, implementation of charging infrastructure, regulatory law, new mobility concepts and business models, integration of electric freight transport)
- Joint preparation and implementation of **European or bi-national projects** on electromobility (i.e. with HORIZON 2020 RTD programme)
- Joint presentation of interests towards European bodies – by using relevant networks
- Berlin is a member of several relevant networks, e.g. ***HyER***: European Regions promoting hydrogen/fuel cells and battery powered vehicles in transport and ***Electric Vehicle Initiative***

# German Capital Region – Preferred site for electromobility with different perspectives

## Excellent conditions to establish electromobility

- **“Business Card” for Germany**
  (federal government, embassies, associations)
- **Attraction for tourists and talents**
  (130 mill. single day visitors and 25 mill. overnight stays in hotels)
- **Pioneer terms of an effective, environmental transport system**
  (almost 50 % of private households do not possess a passenger car)
- **Future-oriented energy generation**
  (in 2020, Brandenburg will cover its average electrical consumption by 100 % renewable resources)
- **Neutral site for OEMs** (no single manufacturer dominates the region)
- **Important R&D center** (Technical University Berlin connects 21 departments in the “research network for electromobility”)

# Electric Mobility in Berlin and Brandenburg – Some facts about the status today

**Berlin-Brandenburg hosts more demo and RTD projects than any other region in Germany.**

- **More than 100 projects in our region**, thereof about

  70 on-going projects (thereof 30 core projects in the showcase)
  20 currently requested grant-projects
  20 further projects in preparation

- with about **1.200 electric cars and trucks** (battery-powered and range extender supported) in fleets and private the highest amount of automotives in Germany

- **400 public charging points** – one of the highest numbers in Germany, in addition an unknown number of private charging points

- **4 hydrogen stations** (two additional planned)

# eMO Partners (05.11.2013)

**An agency of:**

be Berlin

**Operated by:**

Berlin Partner für Wirtschaft und Technologie

**Premium Partners:**

LAND BRANDENBURG

UVB UNTERNEHMENSVERBÄNDE BERLIN-BRANDENBURG

BVG Berliner Verkehrsbetriebe

SIEMENS

BOSCH

TU berlin

VATTENFALL

# eMO Partners (05.11.2013)

**Partners:**

TOTAL

GASAG DIE BERLINER ENERGIE

Michael Hadad Ihr Autopartner fürs Leben

MITSUBISHI MOTORS Drive@earth

BMW Motorrad

RENAULT

RENAULT RETAIL GROUP NIEDERLASSUNG BERLIN

automotive engineering iav

VORWEG GEHEN

ADAC Berlin-Brandenburg e.V. ADAC

inpro

ubitricity

Potsdamer Platz THE PLATZ TO BE

Berlin Tempelhof Projekt

Berlin Tegel Projekt

**National Network-Partners:**

BEM eMobilität

BITKOM

ZVEI: Die Elektroindustrie

bdew Energie. Wasser. Leben. Landesgruppe Berlin | Brandenburg

DIN Normen treiben an. Elektromobilität

bsm Bundesverband Solare Mobilität

TelematicsPRO e.V. Die deutsche Telematikgesellschaft

**Regional Network-Partners:**

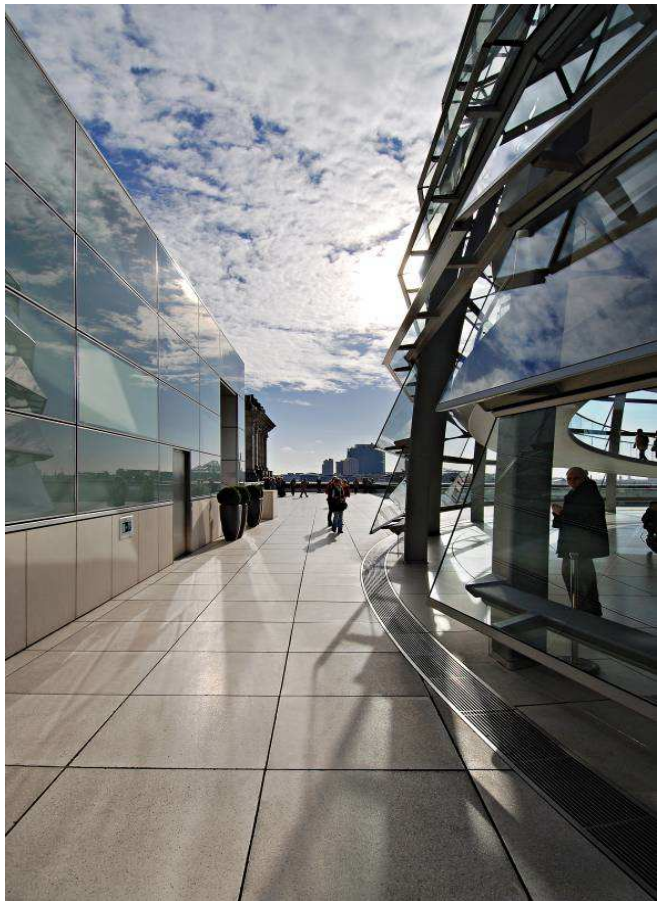
Elektro-Innung Berlin - Landesinnung für Elektrotechnik

Innung des Kraftfahrzeuggewerbes Berlin Körperschaft des öffentlichen Rechts

LOGISTIKNETZ BERLIN-BRANDENBURG

automotive BerlinBrandenburg

# Leading Metropolis for Electromobility



## VISION

Berlin-Brandenburg will become the leading metropolis for electromobility in Europe. The region offers a platform for the power of innovation of German industry - A platform which is visible worldwide and adds value to the region and significantly contributes to improving the quality of life here.

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# Berlin-Brandenburg International Showcase for Electromobility

Berlin-Brandenburg

- **Duration: from 2013 - 2015**
- **30 core-projects with more than 100 partners**
- **Project volume: about 90 Mio. €**

- Total of about **4,000 vehicles** (showcase and associated projects)
- about 400 charging points by now, extension up to 1,600 charging points until end 2015

| Funder | Total |
|---|---|
| Self-Funding of Companies | ~ 35 million € |
| State Support | ~ 37 million € |
| Berlin and Brandenburg | ~ 18 million € |

| Vehicles from the… | Cars | Utility Vehicle | eBikes | Total |
|---|---|---|---|---|
| Core-Projects | ~ 1,350 | ~ 150 | ~ 750 | **2,250** |
| Associated Projects | ~1,600 | ~ 130 | ~ 40 | **1,770** |

- **Coordination**: Berlin Agency for Electromobility eMO

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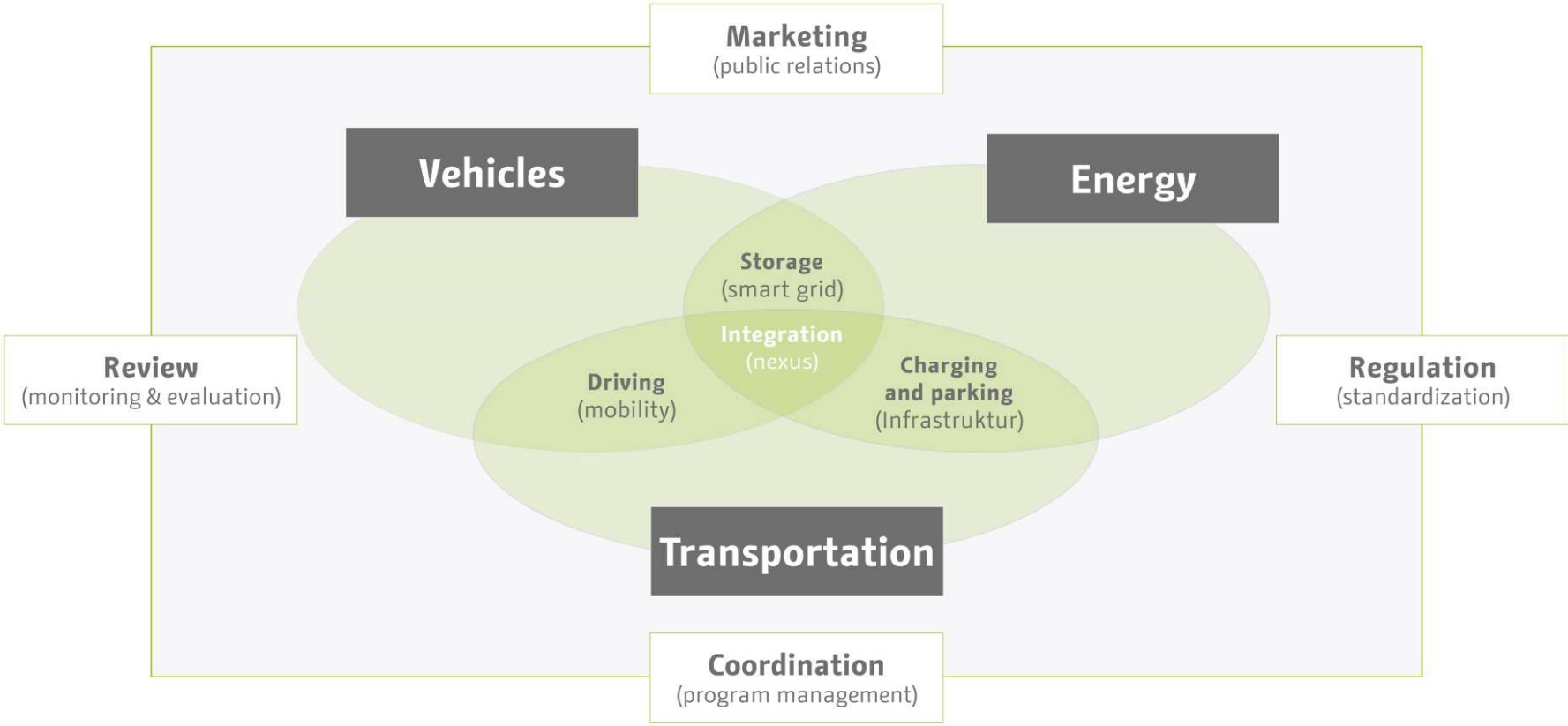
# Portfolio

Berlin-Brandenburg



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# Example for a *Core Project*:

Berlin-Brandenburg

## Berlin-Brandenburg as a „Hot Spot“ of European Car-Sharing


- In Berlin Carsharing was founded and developed up to series maturity – Berlin is the „Carsharing Pioneer“
- With more than ten provider Berlin is „the place to be“ for Carsharing in Europe
- Many of the providers add electric vehicles to their fleets, to make them available for the cities

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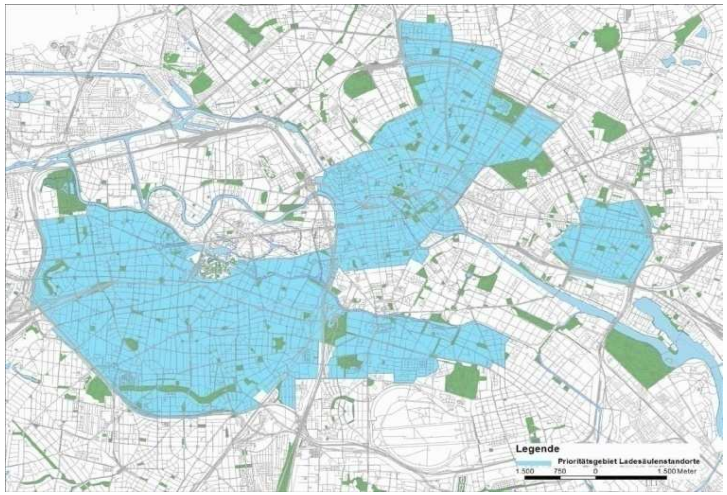
# Example for a *Core Project*:

Berlin-Brandenburg

## Enlargement of charging infrastructure




- Development of an area-wide, demand oriented charging infrastructure
- Flexible e-carsharing is the reference user scheme
- To ensure cost and risk minimising for the municipality
- To ensure a non-discrimining access

two step approach:
up to 1,600 charging points by the end of 2015

Public tender (Europe-wide) launched in 2012,
to be concluded beginning 2014

Coordinated by Senate Department for Urban Development and the Environment

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# Example for a *Core Project*:

Berlin-Brandenburg

## NANU!: Multi-shift operation and delivery during the night with electric-powered commercial vehicles

**Major topics:**

- Testing of the multi-shift operation of battery powered mid-size commcercial vehicles using congestion-free night time
- Controlled charging to improve the overall economic efficiency of electric commercial vehicles
- Organisation of 24 hours operation from the perspectives of the logistics, the customers point of view as well as the regulatory law
- Introduction of a swop battery system for commercial vehicles
- Establishing a new partnership for controlled charging between logistics service provider and energy supplier

**Supported by:**

- Federal Ministry for Transport, Building and Urban Development


**Project coordinator:**

- Fraunhofer IPK

**Project partners:**

- Meyer & Meyer
- Hüffermann Transportsysteme
- Castellan
- DLR, Institut für Verkehrsforschung
- TU Berlin, DAI-Labor
- LNC

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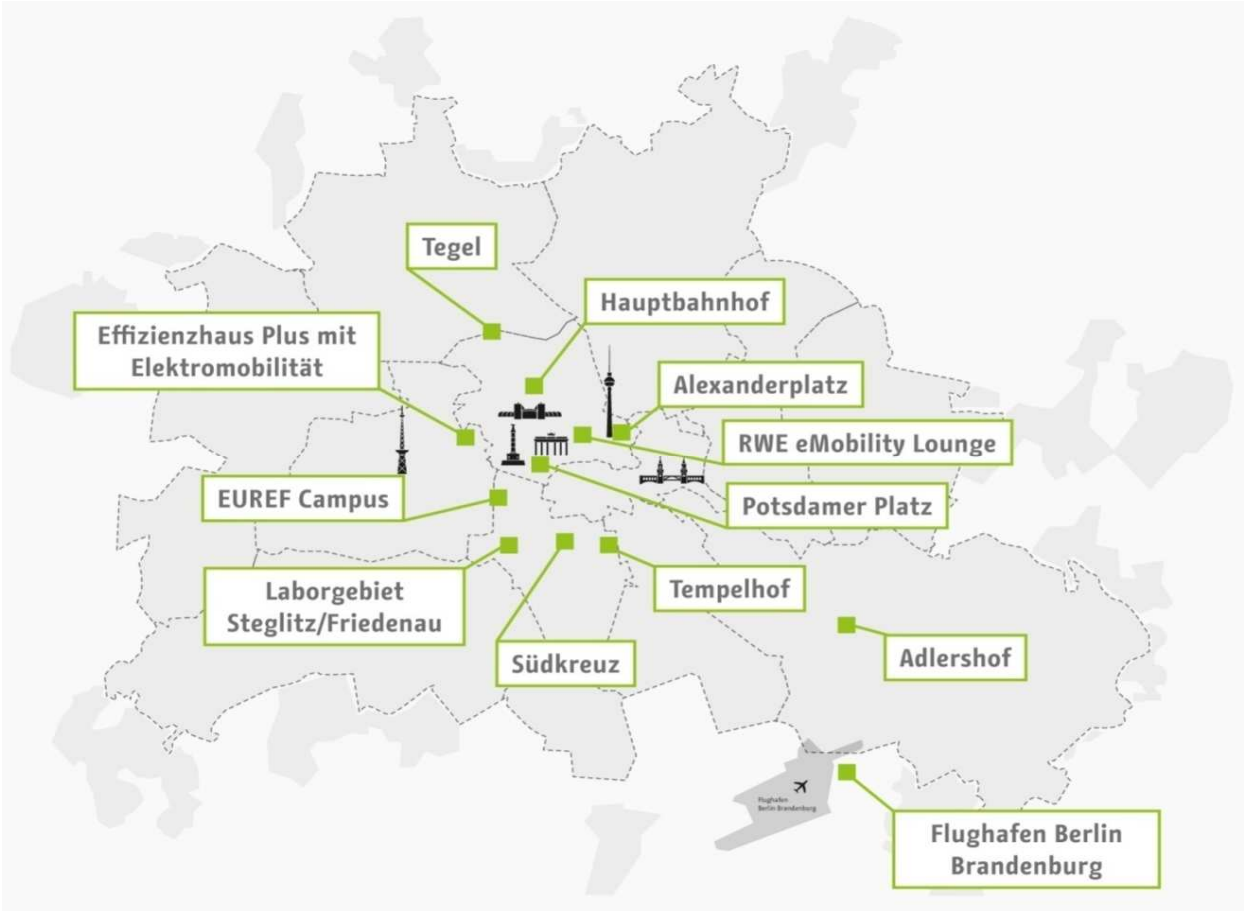
# Electromobility Sights

Berlin-Brandenburg




# Let‘s cooperate!

Kontakt:
**Gernot Lobenberg**

**Head of Agency**
**Berlin Agency for Electromobility eMO**
Berlin Partner for Business and Technology GmbH
Fasanenstr. 85, 10623 Berlin, Germany, Tel. +49-30-46302-386, gernot.lobenberg@emo-berlin.de, www.emo-berlin.de