



# The role of energy companies

## EURELECTRIC Task Force Electric Vehicles

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***ALDE SEMINAR***

***Hydrogen: Powering Europe's Future Energy & Mobility***

***15 March 2011***



# 1. EURELECTRIC covers the whole electricity value chain

**ENERGY POLICY  
& GENERATION**



**MARKETS**



**ENVIRONMENT  
& SUSTAINABLE  
DEVELOPMENT**



**NETWORKS  
& DISTRIBUTION**



**The Task Force Electric Vehicles is integrated into the  
networks unit**



## 2. EURELECTRIC TF Electric Vehicles





# Undertaken and on-going work of the Task Force Electric Vehicles



## 2.1. Placing EV standardisation at the fore

Publication and handing over Political Declaration calling upon the Commission, Antonio Tajani, in 2009 to **support** the drive towards **standardisation** on EV charging systems





## 2.2. How the e-mobility market could be structured?

|  | Electricity distribution | Charging Station ownership and/or operation | Retail of electricity |
|--|--------------------------|---|-----------------------|
| 1 The integrated infrastructure model            |                          |   |                       |
| 2 The separated infrastructure model             |                          |   |                       |
| 3 The independent e-mobility model               |                          |   |                       |
| 4 The spot operator owned charging station model |                          |   |                       |



## 2.3. On-going work: Smart Charging Statement

### Coordination and management of loads will:

- Facilitate integration of **RES** into the electricity system;
- Enable **grid management** which introduces flexibility into the system;
- Optimise **energy efficient** charging process;
- Ensure a **cost-effective solution** by avoiding unnecessary grid investments;
- Entail **consumer convenience** using available infrastructure



# Green eMotion

## Development of an European Framework for Electromobility



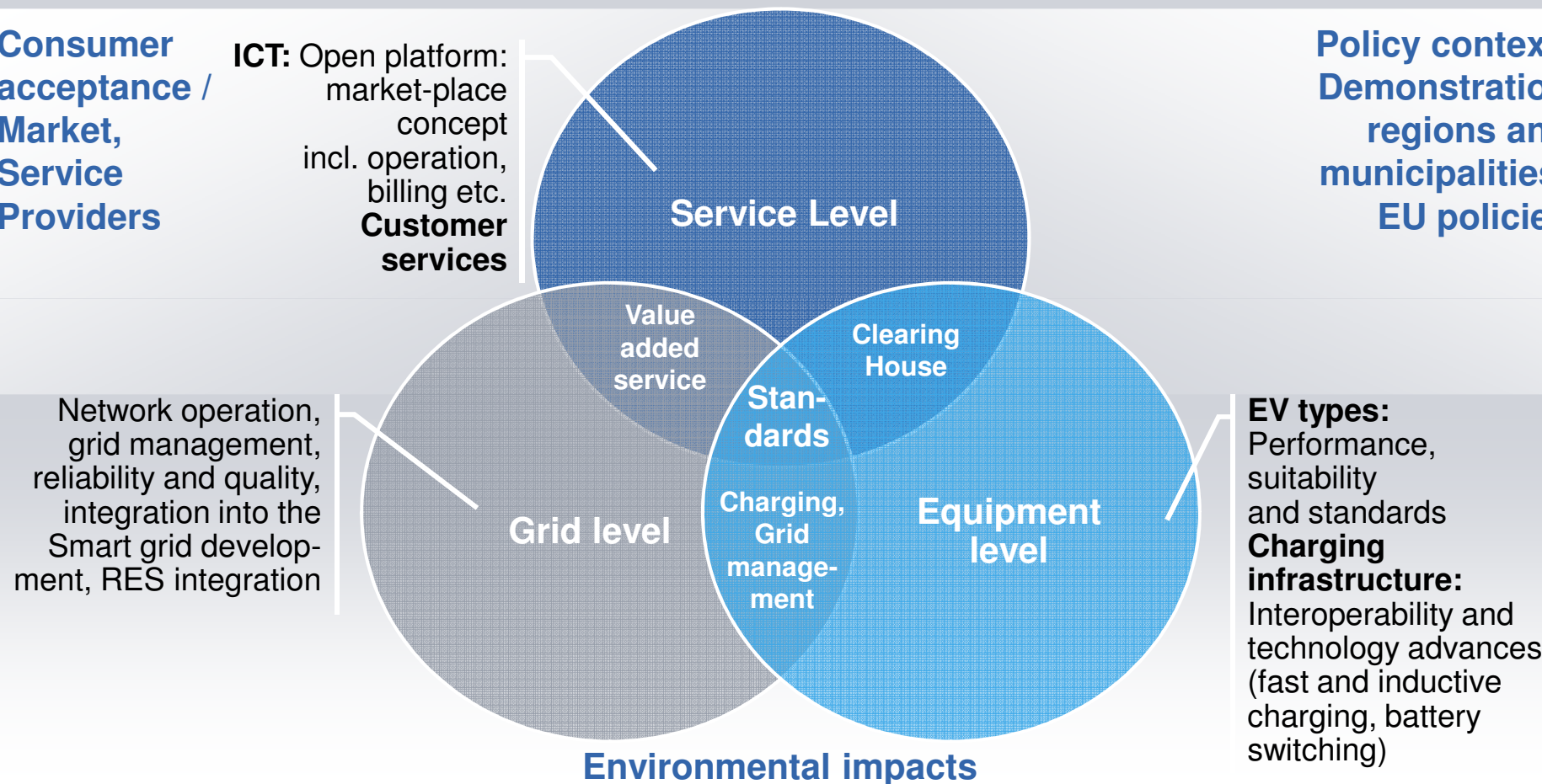
# Conceptual Understanding of Electro-Mobility System



**Consumer acceptance / Market, Service Providers**

**ICT:** Open platform: market-place concept incl. operation, billing etc. **Customer services**

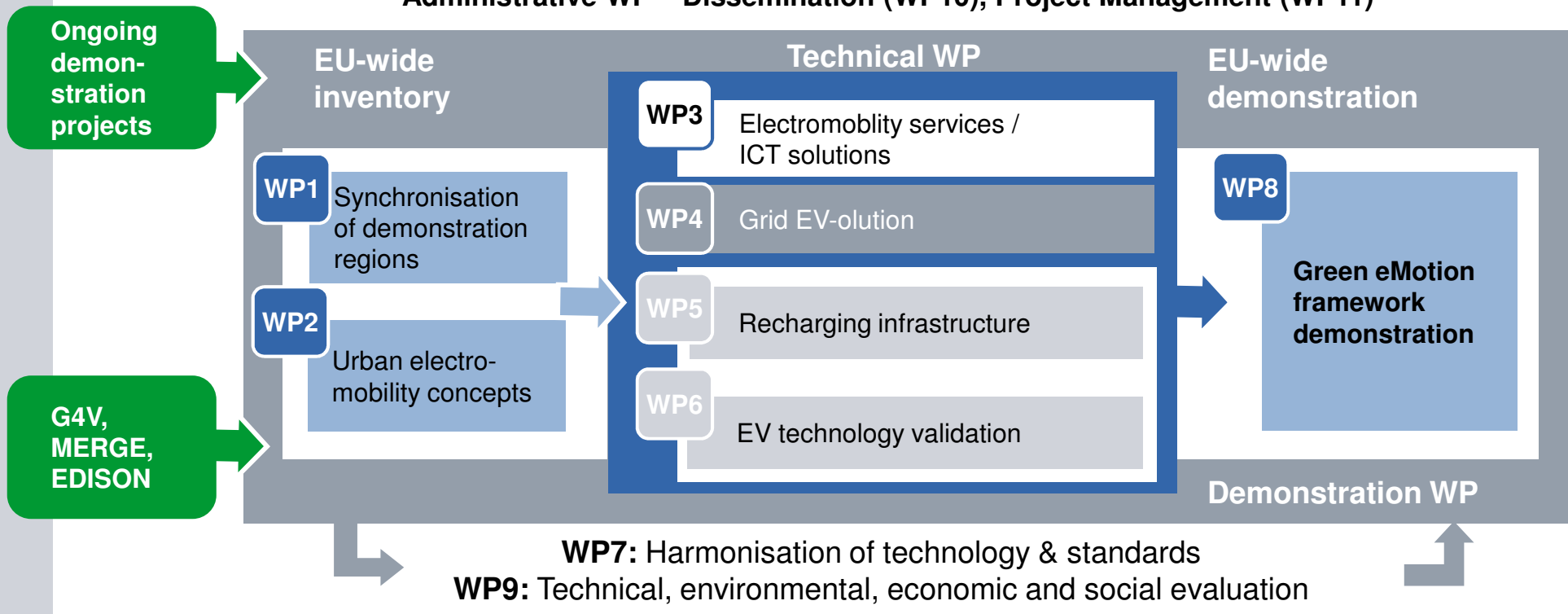
**Policy context:** Demonstration regions and municipalities; EU policies



# Development and demonstration of a unique and user-friendly framework for green electro-mobility



## Administrative WP – Dissemination (WP10), Project Management (WP11)

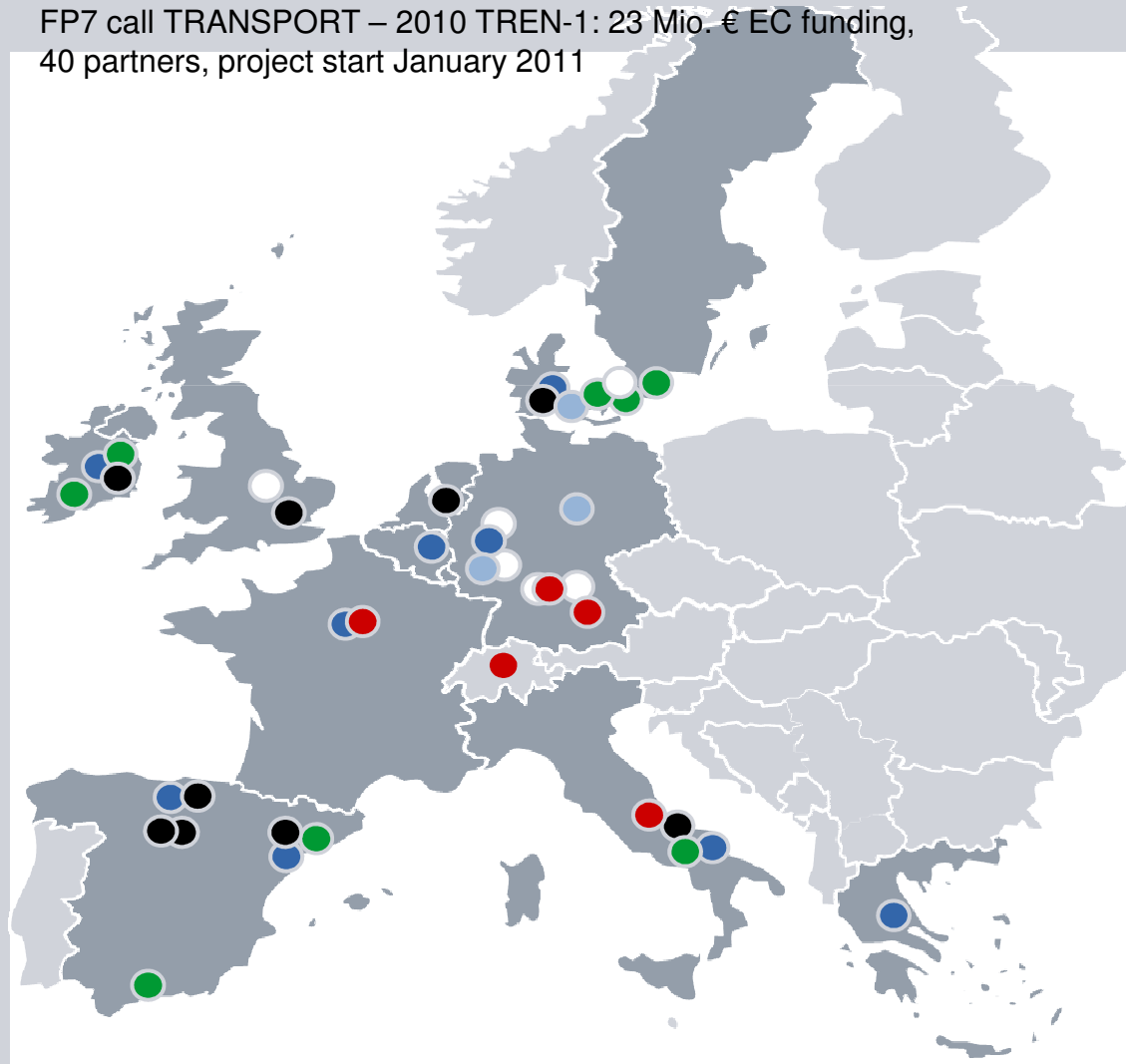


**Subject:** Integrated European demonstration on electro-mobility –  
Vehicles, infrastructure, grid, IT applications, user acceptance

## The Project Consortium \*

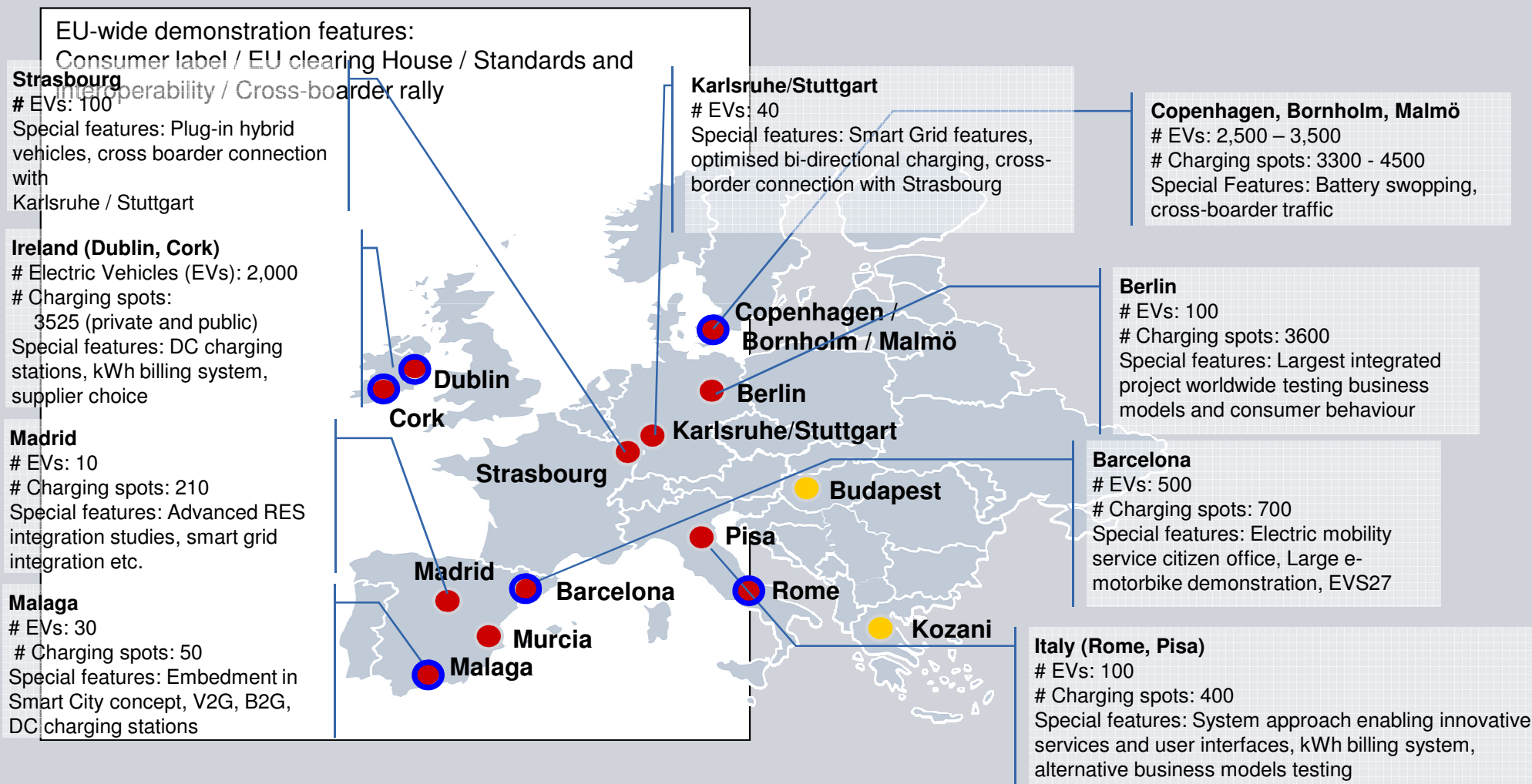


FP7 call TRANSPORT – 2010 TREN-1: 23 Mio. € EC funding,  
40 partners, project start January 2011



- **Industries:** AREVA T&D, Better Place, Bosch, IBM, SAP, Siemens
- **Utilities:** Dansk Energy, EDF, Endesa, Enel, ESB, Eurelectric, Iberdrola, RWE, PPC
- **Electric Vehicle Manufacturers:** BMW, Daimler, Micro-Vett, Nissan, Renault
- **Municipalities:** Barcelona, Bornholm, Copenhagen, Cork, Dublin, Malaga, Malmö, Rome
- **Research Institutions and Universities:** Cartif, Cidaut, DTU, ECN, Imperial, IREC, RSE, TCD, TECNALIA
- **EV Technology Institutions:** DTI, FKA, TÜV Nord

# Demonstration Regions (in 2011)



● Existing demonstration region    
 ● (Potential) replication region    
  Municipalities involved in Green eMotion

# The Concept of Green eMotion

