Patrick Gagnol
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Dissemination Session 4 E
• **German-French working group on electric mobility (2009)**
  – 2 main results
    • Position paper: „The German-French position on infrastructure and interface requirements for E-Mobility.“
    • Definition and development of a cross-border fleet

• **Franco-German Ministries Council in Paris (4th of February 2010)**
  – Decision on the start of the pilot project mid 2010.

• **Project start : March 2011**
Initiators and funders

Gefördert durch:

Bundesministerium für Wirtschaft und Technologie

Bundesministerium für Verkehr, Bau und Stadtentwicklung

aufgrund eines Beschlusses des Deutschen Bundestages
The overall vision of the CROME project:

- **Electromobility already meets transportation needs** thanks to a wide range of EVs / PHEVs now on the market.

- **A safe, user-friendly and reliable cross-border e-mobility between France and Germany** can be demonstrated.

- **An interoperable easy-to-use charging infrastructure** (plug, cable, etc.) and **customer-oriented services** (authentication, billing, roaming, reservation, etc) **can already be set up**.
Every **EV** can connect to a charging spot

Every **user** can authenticate and control the charging process of its EV

**French & German electric vehicles**

**Public charging station or place with type-2 & type-3 plug**

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**Hardware Interoperability**

**Service Interoperability**

*Information Communication Technology*

**Existing ICT* Service Platforms**
- Access / Authentication services
- Charging
- Billing / roaming services
- Smart functionalities
- Operation

**Partners**
- EDF
- EnBW
- BOSCH

**Roaming Service Layer**

**connector / data exchange**
Organized by Hosted by In collaboration with Supported by

A cross border « corridor » of e-mobility

- 25 interoperable public CROME charging stations with 50 charging points
- SODETREL operator of the French network
- 21 interoperable public CROME stations with 32 charging spots
- 7 fast charging stations connected in France (Cora/Nissan/EDF), one in Germany
- 100 EVS monitored
Business model studies

• **FRANCE** :
  – Public charging stations owned by the Cities
    • CROME « hardware » specifications
    • Call for tender - public investments (at least 6 months before Start of Operation)
  – Operation and supervision by Sodetrel as a global operator
  – Free of charge for use up to now, but tariff will be introduced

• **GERMANY** :
  – Public charging stations owned and operated by EnBW
  – Tariff

• **Full interoperability between French and German CROME network (CROME marketplace)**
ROAMING OF EMOBILITY SERVICES AND OF MARKET PLACES
WHAT DOES INTEROPERABILITY STAND FOR THE DRIVER?