

The ELVIRE consortium supported by the European Commission starts a European research project on Electric Vehicle

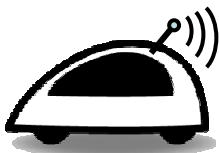
ELectric **V**ehicle communication to **I**nfrastructure, **R**oad services and **E**lectricity supply

June 14, 2010 — Eleven leading global companies (ATB, Better Place, CEA LIST, Continental Automotive GmbH, Endesa, Erasmushogeschool Brussel, ERPC GmbH, Lindholmen Science Park AB, Renault S.A.S., SAP AG, Volkswagen AG) announced in April, 2010 their cooperation in the ELVIRE research project.

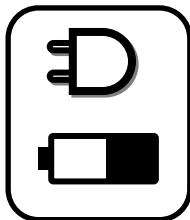
ELVIRE is aimed at **lowering drivers' concerns regarding the limited range of electric vehicles** in order **to facilitate their mass-market adoption**. Supported by the European Commission, the ELVIRE project partners have committed themselves to develop intelligent information and communication systems that are needed to **simplify and optimize energy management in Electric Vehicles**.

Project description

This research project aims at developing and integrating the mobility technologies and services, inside and outside the Electric Vehicle (EV), required to help customers to manage the electric charging of their vehicle properly.



Cooperatively, the project partners will develop a new **on-board information and communication platform** which constantly monitors the charging level of the battery. This in-car platform will also determine the energy demand for the planned route, taking into account traffic conditions and other parameters. These on-board services will keep the driver aware of the remaining vehicle range and distance to the closest charging station.



To guarantee that the power supply can match the personalized needs of each electric vehicle, **intelligent charge spots**, battery switch stations and other **external mobility services** are required. A **network operation center** will manage real-time communication between the electric vehicles and the charging network. This system will provide additional services such as informing where available charge spots and battery switch stations are located and optimizing resource allocation as well as the charging process itself to fulfill drivers' needs.

The ELVIRE consortium will set up an all-round solution by linking an adaptive and responsive charging network to an intelligent in-car platform, which is critical for enabling a mass-market adoption of electric vehicles in the future.

Project partnership



The ELVIRE consortium consists of **ten partners from five European member states and one partner from Israel**. It associates key European vehicle manufacturers (Renault S.A.S., Volkswagen AG) and automotive suppliers (Continental Automotive GmbH) with leading electric companies (Endesa), electric vehicle service providers (Better Place) and business software vendors (SAP AG). Together, they will cooperate with leading representatives of the European research community (CEA LIST, Erasmushogeschool Brussel, Lindholmen Science Park AB, ATB) to tackle the project's research and development challenges. Of high importance is the role of ERPC GmbH which will be in charge of project operations.

Thanks to their complementary skills, the ELVIRE project partners will be able to carry out the required innovative developments and to move efficiently from the definition of representative use cases toward realistic experiments and validation.

Project duration & budget



ELVIRE is an ICT research project supported by the European Commission.

Project duration: April 2010 – December 2013

European Commission funding: 5.200.000€

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ELVIRE coordinator

Hannes Lüttringhaus

Interior Electronic Solutions

Continental Automotive GmbH

VDO-Strasse 1, 64832 Babenhausen, Germany

Hannes.Luettringhaus@continental-corporation.com

Public Interface

Cédric Auliac

CEA LIST

Commissariat à l'Énergie Atomique et aux Énergies Alternatives

Centre de Saclay

DRT/LIST/DCSI/LIMA

Point courrier 72, 91191 Gif-sur-Yvette cedex, France

cedric.auliac@cea.fr

For further information, please visit the official website: <http://www.elvire-project.org>