

PROJECT

MOBINCITY

SMART MOBILITY IN SMART CITY

Funding: European (7th RTD Framework Programme)

Duration: Jul 2012 - Jun 2015

Status: Complete

Total project cost: €3,927,530

EU contribution: €2,900,000



Call for proposal: FP7-2012-ICT-GC

[CORDIS RCN : 104177](#)

Background & policy context:

Urban transport is responsible for about a quarter of CO₂ emissions from transport. The gradual phasing out of 'conventionally-fuelled' vehicles from the urban environment is a major contribution to significant reduction of oil dependence, greenhouse gas emissions and local air and noise pollution. Fully Electric Vehicles (FEV), for public and private transport, can contribute significantly to the lowering of the current pollution levels. However, the FEV use is currently facing several weaknesses which are delaying its wider deployment, mainly related to overall limited efficiency and limited driving range.

Objectives:

With this regard, MOBINCITY aims at the optimization of FEV autonomy range and the increase in energy efficiency thanks to the development of a complete ICT-based integrated system able to interact between driver, vehicle and transport and energy infrastructures, taking advantage of the information provided from these sources in order to optimise both energy charging and discharging processes (trip planning and routing).

Main specific objectives are:

To develop a system to be installed within the vehicle able to receive information from the surrounding environment, which can have influence in the vehicle performance (traffic information, weather and road conditions and energy grid).

To optimise the trip planning and routing of FEV using information from these external sources including alternatives from other transport modes adapted to user's needs.

To define efficient and optimum charging strategies (including routing) adapted to user and FEV needs and grid conditions.

To implement additional energy saving methods (as driving modes and In-Car Energy Management Services) within the FEV interaction with the driver.

In order to reach its objectives, MOBINCITY joins together an outstanding group of 13 partners, coming from five different countries, covering relevant sectors as traffic management, energy, ICT and telecommunications and automotive industry.

Methodology:

The project MOBINCITY will be divided into nine different work packages. The proposed structure is based on the different interactions that will be developed within the project, as showed in the following figure. It is important to highlight the close interconnection among the different activities to be carried out within the project:

WP1. Definition of requirements and system design

WP2. Interaction of FEV with transportation infrastructures
WP3. Interaction of FEV with energy infrastructure
WP4. Communication Systems
WP5. Adaptive strategies for trip planning, charging and driving
WP6. System integration and validation
WP7. Field tests
WP8. Dissemination and Exploitation
WP9. Project Management

Parent Programmes:

[FP7-ICT - Information and Communication Technologies](#)

Institute type: Public institution

Institute name: European Commission

Funding type: Public (EU)

Lead Organisation:

Asociacion Instituto Tecnologico De La Energia

Address:

Avda Juan De La Cierva
46022 Paterna
Spain

Organisation Website:

<http://www.ite.es>

EU Contribution: €411,210

Partner Organisations:

Hrvatski Telekom

Address:

Savska Cesta 32
10000 Zagreb
Croatia

EU Contribution: €66,300

Etrek Svetovanje In Druge Storitve Doo

Address:

POD JELSAMI 006
1290 GROSUPLJE
Slovenia

Organisation Website:

<http://www.etrrel.si>

EU Contribution: €287,228

Technomar Gmbh

Address:

HOHENLINDENER STR. 1
81677 MUNCHEN
Germany

Organisation Website:

<http://www.technomar.de>

EU Contribution: €209,000

Elektro Ljubljana Ove, Inzeniring Spodrocja Obnovljivih Virov Energije, D.o.o.

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1000 LJUBLJANA
Slovenia

EU Contribution: €51,420

Zabala Innovation Consulting, S.a.

Address:

Paseo Santxiki 3 Bis
31192 Mutilva Alta Navarra
Spain

EU Contribution: €271,239

Oprema Ravne Pnevmatika, Hidravlika, Orodja In Tehnoloske Linije D.o.o.

Address:

Koroska Cesta 14
2390 Ravne Na Koroskem
Slovenia

EU Contribution: €162,360

Fraunhofer Gesellschaft Zur Foerderung Der Angewandten Forschung E.v.

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80686 MUNCHEN
Germany

Organisation Website:

<http://www.fhg.de>

EU Contribution: €446,482

Consorzio Per La Ricerca Nell' Automatica E Nelle Telecomunicazioni C.r.a.t.

Address:

Via Giovanni Nicotera 29
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Italy

EU Contribution: €265,662

Electronic Traffic Sa

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46014 Valencia
Spain

EU Contribution: €218,497

Cit Development S.l.

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Spain

EU Contribution: €280,950

Energetski Institut Hrvoje Pozar

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Croatia

EU Contribution: €127,380

E-Distribuzione Spa

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Via Ombrone 2
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Italy

EU Contribution: €102,272

Technologies:

Information systems

ICT support system for drivers of EV and hybrid freight vehicles

Development phase: Research/Invention

Documents:

 [D8.2 Project Web Site \(Other project deliverable\)](#)

STRIA Roadmaps: Transport electrification, Smart mobility and services

Transport mode: Road transport

Transport sectors: Passenger transport

Transport policies: Environmental/Emissions aspects, Digitalisation

Geo-spatial type: Urban