

Due to the increasing awareness of climate change and the rising of fuel and oil prices, sustainable transport system with lower carbon emissions have prompted most of the world's developed countries to step up the research, demonstration and deployment of transport systems that use more energy-efficient and less fuel-dependent vehicles.

In this context, **electromobility** is seen as one of the largest opportunities to radically change today's transport system and make a quantum leap into the next generation of sustainable mobility.

The **ICT4EVEU project** intends to facilitate and enhance the user experience and acceptance of electrical vehicles both individually and collectively by deploying a set of ICT-based services for Electric Vehicle focused on the integration of innovative technologies. This project is included in the Information and Communication Technologies Policy Support Program (ICT-PSP) Smart Connected Electro Mobility.

A consortium of **16 private and public organizations** from the UK, Slovenia, Spain and Austria works in this initiative to be developed from 2012 to 2014 and manages by the Government of Navarre.

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### Partners



## ICT SERVICES FOR ELECTRIC VEHICLE Enhancing the User Experience



bristol  
pamplona  
vitoria  
ljubljana  
maribor

creating sustainable transport

[www.ict4eveu.eu](http://www.ict4eveu.eu)





## ICT SERVICES FOR ELECTRIC VEHICLE Enhancing the User Experience

The project is born with the aim of deploying an innovative set of **Information and Communication Technology (ICT) based services for electrical vehicle (EV)** in different and complementary pilot projects across Europe with an increasing geographical scope for the pilots projects: urban, regional and transnational.

The scope of the ICT services is the integration of different **Management Systems** operating on the existing electric vehicles infrastructures in the cities where the pilot projects will be developed, so that related services are deployed making use of these interconnected infrastructures: charging points, control centres and vehicles.



### CHALLENGES FOR EUROPE'S TRANSPORT

- SAFETY
- CONGESTION
- ENERGY EFFICIENCY & EMISSIONS
- GROWTH IN DEMAND
- BALANCE BETWEEN MODES
- MAKE USE OF R&D, INCLUDING ICT
- INCREASING URBANISATION
- AGEING OF EUROPE'S POPULATION

## ICT4EVEU will contribute to the creation of a sustainable transport system with lower carbon emissions

**ICT4EVEU** project consist of three pilot projects with an increasing geographical scope -urban, regional and transnational- that are going to be implemented in Bristol (United Kingdom), Ljubljana and Maribor (Slovenia), Vitoria and Pamplona (Spain) together with observers from the Austrian region Styria.

### pilot 1. BRISTOL

This pilot will be focused on the integration of commuters in the urban area of Bristol, reaching a population up to 500,000 and with a high movement from locations nearby. It is important to explain that this English city has been really concerned in transportation within its commute area during the last years. The implementation of the Electric Vehicle is regarded as a possible solution in terms of efficiency for the city, which must have an interconnected and fast-charging infrastructure.

### pilot 2. PAMPLONA AND VITORIA

Its objective is to develop a general management system of electric vehicle infrastructures assuring mobility in an area of 100 Km among the cities of Vitoria and Pamplona. It will consist of the development of value added E-energy services for the EV drivers.

A second approach will be included in the pilot: urban and interurban. The services will be deployed taking into account both of these.

### pilot 3. LJUBLJANA AND MARIBOR +Austrian observers

The idea is to develop services on top of the present charging infrastructure already developed in the cities and to share some of them with the neighbouring cities in the region. Project outcomes should enable citizens to travel through the project area without the problem of not being able to use the entire available charging infrastructure. Local and national systems should be prepared in advance to cope with the expected development of electromobility.



### SERVICES

- To book and simplify the payment procedure.
- To make use of innovative tools for communication vehicle user/ infrastructure/ control centre.
- To guarantee the access to reviews including information about the charging history, events, charging stations utilized.
- To recommend and guide the driver to the most suitable charging station, according to the battery status and the grid availability.

### TECHNOLOGIES

- Charging points adapted and integrated in a network.
- Integration of electric vehicles, nomad devices, smart phones.
- General Management System for electric vehicle charging infrastructure.
- Portal application for EV users.
- Unique identification verification tool .

### AUDIENCE TARGET

- Private users
- Local and regional government fleets
- Companies and corporations