



European
Commission

SMART CITIES & SUSTAINABILITY

MOBiNET

Europe-Wide Platform for Connected Mobility
Services

The MOBiNET service platform aims to simplify the Europe-wide deployment of connected transport services by creating an “Internet of Mobility” where transport users’ requests match providers’ offers, and by promoting openness, harmonisation, interoperability and quality.

At a Glance

MOBiNET:

Project type:

Collaborative project (IP)

Programme:

7th EU Framework Programme for Research and Technological Development

Project coordinator:

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Project partners:

ERTICO - ITS Europe, Xerox, Pluservice, SINTEF, NORTH DENMARK REGION, TI, VTT, TOPOS, Tecnalía, VOLVO, TNO, Imtech Traffic & Infra, CRF, NEC, CTAG, TfL, ACS, NXP-NL, DLR, Mizar, IRU Projects, Allianz Telematics, ICCS, Thales Services, INFO TRIP, KeyResearch, Aalborg University, ACASA, Infoblu, CGI-NL, 5T, NPRA, GateHouse

Start date: 1 November 2012

End date: 30 August 2016

Total cost: €15.6 Million

EU funding: €11 Million

Project website:

www.mobinet.eu

Objectives

Despite the fast development of technologies & standards for vehicle-to-vehicle and vehicle-to-infrastructure communication, deployment of corresponding services is slow and fragmented. The few existing connected-vehicle services are typically proprietary and few offer truly Europe-wide coverage or interoperability.

A new approach is needed that exploits advanced information & communication technologies, for the benefit of (i) users, by offering a one-click gateway to a universe of mobility services; and (ii) providers, by supporting existing back-office processes and opening the door to all MOBiNET-enabled users’ devices.

Key innovations

MOBiNET will create a comprehensive new ecosystem for drivers and travellers, users and providers of transport services, offering the following important simplifications:

- Drivers and travellers will have one-click access to a huge variety of Europe-wide mobility services while service providers will reach a wider customer base;
- A unified mobile payment and clearing system will provide users with a single account valid for transport services throughout Europe;

- an open business environment will enable providers to add third-party content to their own products, with automated mechanisms for service orchestration;
- a uniform middleware environment will allow providers to deliver any kind of service to any kind of compliant customer device;
- A Communication Manager will allow services to select the most suited communication technology;
- Standardised services will be defined for deployment by any service provider throughout Europe, guaranteeing widespread availability and interoperability.

The technology vision

MOBiNET is a European-wide – indeed global – distributed, virtual platform supporting a vast network of mobility and transport services (App Store). At its heart is a (real, not virtual) multivendor e-Marketplace featuring a directory describing the products offered by and to all providers of mobility-related content, a mechanism for matching service requests and offers, and a group of utilities for the discovery, creation, orchestration and operation of services.

MOBiAGENT is a native application in the operating system of a user's mobile device. It comprises a Service Environment where services can run, a Communication Agent that connects those services to the hardware's communication devices and a Communication Manager that maintains the connection of the device to the services in MOBiNET e.g. via 3G, LTE. In this way, end-user services embedded in MOBiAGENT can communicate and interoperate with potentially all MOBiNET services.

MOBiNET central facilities will be hosted as cloud services available to a community of suppliers (operators, data providers, service providers, etc), and will be taken up at a group of pilot sites to be validated in trials.

Description of Work

VALIDATION

MOBiNET solution will be designed to support almost any kind of online, connected vehicle and traveller use cases. A number of use cases will be selected as reference services to be developed and deployed in trials in the MOBiNET pilots

in Helmond (NL), Helsinki (FI), Vigo and San Sebastian (ES), North Denmark Region, Trondheim (NO), Turin and Piedmont Region (IT), London (UK) and Trikala (GR).

The project is using an “agile” work flow with three iterations, providing a fully operational system after the first 16 months, and learning how to improve and extend the platform from the experience of commercial and end-users at the pilot sites.

BUSINESS ASPECTS

From the start-up of MOBiNET concept development, operational, legal and business needs of the involved stakeholders will be analysed, as well as sustainable business scenarios for commercial take-up after the end of the project. A suitable organisation and governance model will be defined enabling the platform continuation and expansion beyond project end. A certification framework will be proposed.

BUILDING THE COMMUNITY

Professional users of the MOBiNET platform will form the Provider Community, operated as a non-profit organisation driven by its members, which should remain commercially operational and grow after the project's end, based on the selected governance model.

PROMOTING MOBINET RESULTS

Good communication of the project progress and results will raise awareness and interest to attract new members to the Supplier Community, and support MOBiNET market take-up. A major technical showcase will be organised to demonstrate the concept and benefits of the MOBiNET Platform at the ITS World Congress in Bordeaux, France, in autumn 2015.

For further information:

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