PROJECT

DECOMOBIL

Support action to contribute to the preparation of future community research programme in user centered Design for ECO-multimodal MOBILity

Funding: European (7th RTD Framework Programme)

Duration: Oct 2011 - Sep 2014

Status: Complete with results

Total project cost: €407,685

EU contribution: €311,000

Call for proposal: FP7-ICT-2011-7

CORDIS RCN : 99997

Background & policy context:

DECOMOBIL will take advantage of the structured research network that has been set up in HUMANIST NoE and followed up in HUMANIST VCE, in order to develop and widely disseminate knowledge in the area of human centered design of ICT for sustainable transport.

Objectives:

Expected impacts of DECOMOBIL are: widening the market for ICT based mobility and transport services by contributing to the development and the widespread of user-friendly innovative nomadic services, impacting bicycles, public transport and car-sharing use through the understanding of multimodal travellers needs; by setting up design recommendations for the next generation of cooperative systems and improving integrated road transport systems; by analysing long-term effects and potential impacts of ITS deployment on clean and safe multimodal mobility and improvements in efficiency and environmental friendliness of mobility and transport in Europe by improving eco-driving behaviour, leading to the decrease of vehicle carbon emissions for cars, buses and trucks and by understanding human behaviour critical parameters linked to the implementation of an electric mobility system.

Activities in DECOMOBIL will provide understanding on acceptability and usability of ICT for the population, the set-up and design of guidelines and recommendations to avoid misuse and to allow user-friendly interaction with ICT functionalities. The objective of the DECOMOBIL project is to contribute to the acceptability and the usability of ICT for cleaner and safer mobility through identification, discussion and dissemination of updated knowledge and know-how in HMI and Human Centred Design areas towards the ITS community at a European and international level. This should be achieved through the organisation of scientific seminars and international conferences, the definition of road mapping for future research priorities, reflection on JRIs and dedicated structured contributions to the eSafety forum in the framework of the iCar Initiative and any relevant committees in this area.

Methodology:

Key activities (per work package):

Road Mapping:

- Identify key issues for future research and innovation activities in the area of clean and efficient multimodal mobility in Europe, as well as at an international level (Japan, US, Canada)
- Set up priorities of research and innovation activities in relation to identified scientific bottlenecks, lack of knowledge in some areas and priorities at high European level

Organisation of scientific seminars:

- Organise regular scientific seminars in order to produce contributions to the European scientific community in identified research issues:
    - Eco Driving methods and training

- Long-term impact of ITS on clean multimodal mobility
- Nomadic transport services for car-sharing and public transport use
- Electric mobility system in different scenarios: individual user, car-sharing and fleet
- Sustainable mobility within a resilient road transport system.

Contribution to eSafety activities:

- Disseminate DECOMOBIL contributions to relevant eSafety working groups (Ecodriving, Clean efficiency mobility, Multimodal urban mobility, Research and Development, Implementation Road Map, Intercontinental Cooperation, Nomadic Devices Forum, HMI ESoP).

Organisation of international conferences:

- Disseminate information on the activities and results of the DECOMOBIL project by setting up access of the productions via internet, by disseminating DECOMOBIL newsletters

Reflections on the concept:

- Reflection on the potential development of the concept of Joint Research Initiatives in the framework of Human Factors and Human Centered Design for ICT in transport and produce a feasibility frame concerning recommendations that could help in the eventual implementation of this new instrument.

Parent Programmes:

FP7-ICT - Information and Communication Technologies

Institute type: Public institution

Institute name: European Commission

Funding type: Public (EU)

Lead Organisation:

Humanist

Address:
avenue François Mitterrand 25
69675 Bron
France

Organisation Website:
http://www.humanist-vce.eu

EU Contribution: €145,723

Partner Organisations:

Trl Limited

Address:
Crowthorne House Nine Mile Ride 0
Wokingham
RG40 3GA
United Kingdom

Organisation Website:
http://www.trl.co.uk

EU Contribution: €15,793

Factum Chaloupka & Risser Og

Address:
Danhausergasse
1040 Wien
Austria

Organisation Website:
http://www.factum.at

EU Contribution: €24,824

Ethniko Kentro Erevnas Kai Technologikis Anaptyxis

Address:
Charilaou Thermi Road
57001 Thermi Thessaloniki
Greece

Organisation Website:
http://www.certh.gr

EU Contribution: €16,317

Universitat De Valencia

Address:
AVENIDA BLASCO IBANEZ 13
46010 VALENCIA
Spain

Organisation Website:
http://www.uv.es

EU Contribution: €9,208

Associacao Para O Desenvolvimento Da Investigacao No Instituto Superior De Gestao

Address:
Rua Vitorino Nemesio 5
1750 306 Lisboa
Portugal

EU Contribution: €11,556

Technische Universitaet Chemnitz

Address:
STRASSE DER NATIONEN 62
09111 CHEMNITZ
Germany

Organisation Website:
http://www.tu-chemnitz.de

EU Contribution: €14,344

Institut Francais Des Sciences Et Technologies Des Transports, De L'amenagement Et Des Reseaux

Address:
BOULEVARD ISAAC NEWTON 14 CITE DESCARTES 14-20
77447 MARNE LA VALLEE CEDEX 2
France

Organisation Website:
http://www.ifsttar.fr

EU Contribution: €56,499

Bundesanstalt Für Strassenwesen (Federal Highway Research Institute)

Address:
Brüdenstrasse 53
51427 BERGISCH GLADBACH
Germany

Organisation Website:
http://www.bast.de

EU Contribution: €11,226

Universidad Politécnica De Madrid

Address:
Avda. Ramiro de Maeztu, 3
28040 MADRID
Spain

Organisation Website:
http://www.upm.es

EU Contribution: €5,510

Technologies:

Unclassified
Non-technology

Key Results:

The study does not demonstrate any final results yet as it is still ongoing. However, since the start of the project three scientific seminars have already taken place:

EcoDriving methods and training
The Seminar aimed to identify the background research on EcoDriving and how the use of existing studies, tools and ITS systems can be further researched, adapted and extended to result in concrete methods and training initiatives in this sector. Furthermore, it provided the opportunity to discuss and interact with the attendants on the future research steps to be taken, as well as on the actors to be involved in the diffusion and application of the results of EcoDriving training.

Long-term impacts and effects of ITS
The goal of this seminar was to present papers dealing with issues that are considered relevant for the topic, to discuss questions emerging from these presentations in small groups and to present the work results of the small groups in the plenary discussion for feedback.

Nomadic transport services for multimodal mobility
The goal of this seminar was to present several issues and recent developments regarding nomadic transport services and to discuss questions emerging from the presentations.

In addition, one international conference was held:

Third European conference on Human Centered Design ITS
Due to the non-existence of a specific conference focused on safety and usability of vehicle information and communication technologies, a European conference on Human Centered Design for Intelligent Transport Systems was set up. The aim was to gather the community of Human Factors researchers, to offer an overview of the current developments and trends and to create an area for discussions and debates on these topics. The third conference was organised in the framework of the DECOMOBIL project and was held in Valencia, Spain on 14 and 15 June 2012.

Strategy targets

- An efficient and integrated mobility system
- Innovating for the future: technology and behaviour

Documents:

D3.2 Ecodriving methods and training issues and perspectives.pdf (Other project deliverable)

STRIA Roadmaps: Cooperative, connected and automated transport

Transport mode: Multimodal transport

Transport sectors: Passenger transport

Societal/Economic issues,

Transport policies: Decarbonisation

Geo-spatial type: Other