

A summary of the DECOMOBIL project over 3 years

The DECOMOBIL project began on 1st October 2011 and ends on 30 September 2014.

Over the 3 years duration of the project a great number of actions and events were conducted and scientific deliverables were published in the view of preparing the future community research programme in user centred design for eco-multimodal mobility.

To support the preparation of scientific deliverables, five scientific seminars have been organized in order to discuss on specific topics and allowing external key stakeholders to share their knowledge and their view on focus areas crucial for the understanding of ecomobility main factors, context and bottlenecks, on the following topics:

- Eco-driving methods, design and training, on 1st December 2011, Thessaloniki, Greece
- Long term impact and effects of ITS, on 19 & 20 April 2012, Vienna, Austria
- Nomadic transport services for multimodal mobility, on 15 November 2012, Lyon, France
- E-vehicles and car-sharing scenarios, on 11 October 2013, Munich, Germany
- Human centred design for safety critical systems, on 8 September 2014, Lisbon, Portugal

Each of these seminars was followed by a scientific deliverable giving the possible future research subjects in their respective fields.

Two conferences were also held on 14 & 15 June 2012 in Valencia, Spain and on 4 & 5 June 2014 in Vienna, Austria, both entitled "European Conference on Human Centred Design for Intelligent Transport Systems", for which conclusions and proceedings have been published.

A specific workpackage was dedicated to Road Map and in the view of producing the linked deliverable a one-day workshop was organised entitled "Roadmap of Information & Communication Technology design for clean and efficient multimodal mobility" on 28th of May 2013 in Munich, Germany. This very important deliverable presents a synthesis on the roadmaps set up by main stakeholders allowing to have a vision of the future European technological, societal and industrial context and secondly research priorities in the area of ICT design for clean and efficient multi-modal mobility based upon main European projects and bodies vision in addition to the output from the seminars organised by the DECOMOBIL project. Finally, research topics considered as priorities by the DECOMOBIL consortium are described in terms of Content and scope, Targeted Outcome, Key research challenges to be addressed and Expected Impact.

Finally, a last workpackage was dedicated to contributions to iMobility. Two deliverables were published in the frame of this workpackage: the D4.1 "Identification of and contribution to iMobility WGs linked to user centred design of ICT for clean mobility" summarizes how scientific bottlenecks, research priorities and important issues identified by the DECOMOBIL project can be articulated with the on going activity and objectives of the relevant iMobility Working Groups such as WG HMI, WGVUR, WGSafeAPP and WGR&I. The D4.2 presents the results of the activities performed in Task 4.2 aiming to contribute to the discussion on the development of the European Statement of Principles on Human-Machine Interface of 2008.

The final review meeting of DECOMOBIL took place jointly to the Final Workshop on 9 September 2014 in Lisbon, Portugal. The project partners have been continuously preparing the arrangements for the review, including the agenda, presentations, and additional materials. The project officer, Myriam Coulon-Cantuer, together with two reviewers, Chris Wrathal and Ernesto Costa, have been assigned to assess the achievements and progress of the project and finally rated DECOMOBIL achievements as "excellent".

All DECOMOBIL reports are publically available on <http://decomobil.humanist-vce.eu>

Project News

- The DECOMOBIL Deliverable 2.2 "Roadmap for research on Human Centred Design of ICT for clean and safe mobility" has been published. After overviewing the main roadmaps set up by the key European stakeholders in the area of road transport covering societal challenges and technology maturity, and allowing to have a vision of the future technological, societal and industrial context, the main research priorities in the area of ICT design for clean and efficient multi-modal mobility are presented and discussed, based upon European projects and bodies vision in addition to the output from the seminars organised by the DECOMOBIL project.

- The DECOMOBIL Deliverable 4.2 "Identification of and contribution to iMobility WGs linked to user centred design of ICT for clean mobility", just published, summarizes how scientific bottlenecks, research priorities and important issues identified by the DECOMOBIL project can be articulated with the on-going activity and objectives of the relevant iMobility WGs such as WG-HMI, WGVRU, WG-SafeAPP and WG-R&I.

- Both reports can be downloaded at <http://decomobil.humanist-vce.eu>

Final workshop Human centred design for safety-critical systems 8 September 2014, Lisbon, Portugal



The DECOMOBIL final seminar on Human Centred Design for Safety Critical Transport Systems was held in Lisbon, Portugal on 8 September 2014. This workshop was the conclusion the DECOMOBIL 3-years project with a particularly attractive programme including the following presentations: "Transport safety: a matter of technology, organisation and people" by Guy Boy, Chief Scientist for Human Centred Design at NASA Kennedy Space Centre, USA, "The pervasive copilot: how ITS could support a shared situation awareness between road users?" by Thierry Bellet, Researcher at LESCOT, IFSTTAR, France, "Road traffic accident causation and ITS: how do we choose the most effective solution?" by Oliver Carsten, Professor of Transport Safety at Institute of Transport Study, University of Leeds, UK, "VRU safety and potential link to automation and future research priorities in the field" by Stella Nikolaou, Researcher at CErTH-HIT, Greece, "The contribution of resilience to a sustainable transport system" by Pedro Ferreira, Researcher at ISG/DREAMS, Portugal, "Safety vs Ecomobility, setting priorities right" by Evangelos Bekiaris, President of HUMANIST, Research Director at CErTH-HIT, Greece & "View of the EC on the future research challenges for ICT and transport" by Myriam Coulon-Cantuer, Scientific and Technical Project Officer, European Commission

The presentations were followed by a Round Table chaired by Mr Guy Boy. This workshop through presentations and discussions highlighted the increasing complexity of the road transport system and the related safety, security and sustainability concerns in an era dominated by a fast technologic development. The Human Centred Design approach directed to the set composed by technology, organization and people, represents a theoretical and conceptual framework for further research fitting the present H2020 challenges in the field of mobility and the European targets in the transport sector for 2020-2050.

Some research priorities were identified in the frame of the DECOMOBIL road map stressing the importance of electromobility. However, some additional and specific research needs raised from the workshop, being some of them very close to the ones defined in the project such as "A safe and sustainable mobility of people and goods addressing environmental, economic and efficiency issues" or "A full automated road transport infrastructure allowing for communication, localization and control (Cooperative ITS)".

The conclusions of this day is now available on the project website: <http://decomobil.humanist-vce.eu>.

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