Development of a methodology and tool to evaluate the impact of ICT measures on road transport emissions

Fact Sheet

Project Information

ICT-EMISSIONS
Grant agreement ID: 288568
Status
Closed project
Start date
1 October 2011
End date
31 March 2015

Funded under
FP7-ICT
Overall budget
€ 4 698 791
EU contribution
€ 2 899 810

ARISTOTELIO PANEPISTIMIO
THESSALONIKIS
Greece

Project description

Low carbon multi-modal mobility and freight transport

ICT-EMISSIONS aims at developing a novel methodology to evaluate the impact of ICT-related measures on mobility, vehicle energy consumption and CO2 emissions of vehicle fleets at the local scale, in order to promote the wider application of the most appropriate ICT measures. The proposed methodology combines traffic and emission modelling at micro and macro scales. These will be linked with interfaces and submodules which will be specifically designed and developed. A number of sources are available to the consortium to obtain the necessary input data. Also, experimental campaigns are offered to fill in gaps of information in traffic and emission patterns. The application of the methodology will be demonstrated using commercially available software. However, the methodology is developed in such a
way as to enable its implementation by a variety of emission and traffic models. Particular emphasis is given to (a) the correct estimation of driver behaviour, as a result of traffic-related ICT measures, (b) the coverage of a large number of current vehicle technologies, including ICT systems, and (c) near future technologies such as hybrid, plug-in hybrids, and electric vehicles. The innovative combination of traffic, driver, and emission models produces a versatile toolbox that can simulate the impact on energy and CO2 of infrastructure measures (traffic management, dynamic traffic signs, etc.), driver assistance systems and ecosolutions (speed/cruise control, start/stop systems, etc.) or a combination of measures (cooperative systems). The methodology will be validated by application in the Turin, Madrid, and Roma areas. The consortium incorporates all required competences to deliver the project objectives, i.e. a balanced mix of experienced traffic simulation/management experts, vehicle energy emission modellers, ICT solution providers, and end users.

Field of science

/social sciences/social and economic geography/transport/electric vehicles
/natural sciences/computer and information sciences/software
/humanities/languages and literature/linguistics/phonetics
/social sciences/social and economic geography/transport

Programme(s)

Topic(s)

Call for proposal

FP7-ICT-2011-7

Funding Scheme

CP - Collaborative project (generic)

Coordinator

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Activity type
Higher or Secondary Education Establishments
EU contribution
€ 899 053
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EU contribution

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Activity type

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**IVECO S.p.A.**

- **Italy**
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- **Address**: Via Puglia 35, 10156 Torino
- **Activity type**: Private for-profit entities (excluding Higher or Secondary Education Establishments)
- **Website**: [Contact the organisation](#)

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