

ECOMOVE - Cooperative Mobility Systems and Services for Energy Efficiency

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Tipo di informazione: RISULTATO

The eCoMove project will create an integrated solution for road transport energy efficiency by developing systems and tools to help drivers sustainably eliminate unnecessary fuel consumption (and thus CO2 emissions), and to help road operators manage traffic in the most energy-efficient way. By applying this combination of cooperative systems using vehicle-infrastructure communication, the project aims to reduce fuel consumption by 20% overall. This target can be achieved by:

- Saving unnecessary kilometers driven (optimising routes)
- Helping driver to save fuel (optimising driver behaviour)
- Managing traffic more efficiently (optimising network management)

The eCoMove concept rests on the idea that, for a given trip by a particular driver in a particular vehicle, there is some least possible fuel consumption that could be achieved by the perfect eco-driver travelling through the perfectly eco-managed road network. In reality, both drivers and traffic management systems fall short of this ideal, and much fuel is wasted and CO2 emitted unnecessarily.

The eCoMove innovations will target the two sources of this avoidable fuel consumption: private trips and freight/logistics trips. This integrated project (IP) will structure into six different sub-projects:

1. Coordination and Management.
2. Core Technology Integration both to develop common core technologies and to ensure strong technical coordination across the IP.
3. ecoSmartdriving to develop solutions for eco-driving support for car drivers.
4. ecoFreight & Logistices, for both eco-driving support for trucks and eco-freight and logistics management.
5. ecoTrafficManagement & Control to develop applications for cooperative eco-traffic network management.
6. Validation & Evaluationto validate the performance and effectiveness of all applications in a number of urban, non-urban and motorway environments.

Key objectives of eCoMove innovation are to develop and validate the following applications:

ecoSmartDriving to improve driver eco-performances, including: ecoTripPlanning, on trip dynamic green routing, ecoDriving support, ecoPostTrip and ecoMonitoring; ecoDriver Coaching System and in-vehicle Truck eCoNavigation for good vehicle drivers cooperative ecoFleet Planning and Routing for environmental sound ecoFreight & Logistices ecoAdaptive Balancing & Control system as well as cooperative Fuel-efficient Motorway system as means for ecoTrafficManagement & Control.

These important eCoMove innovations are enabled by the use of cooperative information exchange, such as vehicle fuel consumption data & route destination by the traffic system, the traffic lights phase data, speed and route recommendations by the vehicle.

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End date: 2013-03-31

Duration: 36 months

Project Reference: 247908

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Subprogramme Area: ICT-2009.6.1 ICT for Safety and Energy Efficiency in Mobility

Contract type: Collaborative project (generic)

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Quadro di finanziamento

7FP-ICT - TECNOLOGIE DELL'INFORMAZIONE E DELLA COMUNICAZIONE: priorità tematica 3 nell'ambito del programma specifico "Cooperazione" recante attuazione del Settimo programma quadro (2007-2013) di attività comunitarie di ricerca, sviluppo tecnologico e dimostrazione

Links

- **Accedi al dossier F1RST "L'Emilia-Romagna e il Settimo Programma Quadro di RST"**

http://first.aster.it/dossier/show_dossier.php?ID=16&MENU=01

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