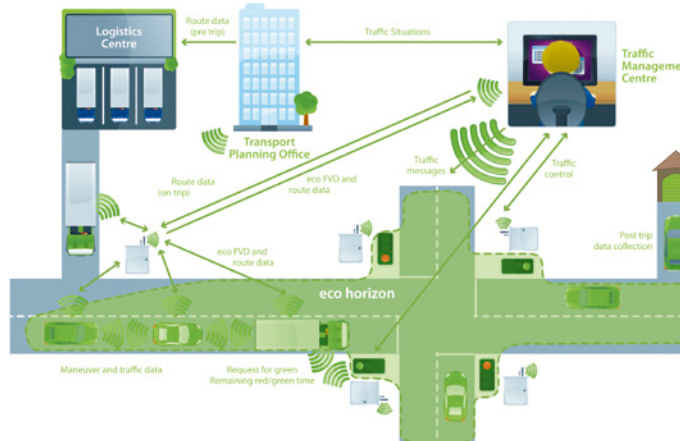


Motivation and Objectives

The eCoMove concept is that a combination of applications for eco-driving, eco-logistics planning and eco-traffic management can deliver up to 20% overall fuel savings and CO₂ emissions reduction. To achieve that, the project is tackling the three main causes of energy waste in road transport:

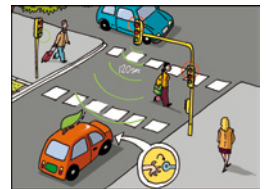
- Inefficient route choice,
- Inefficient driving performance,
- Inefficient traffic management & control.



When connected to each other in an eco cooperative system, eCoMove applications & services can help drivers, freight and road operators save fuel, unnecessary kilometres driven and manage traffic more efficiently to approach the theoretical least possible energy use.

Project Plan, Milestones and Deliverables

- | | |
|---|---------------|
| • Use cases and requirements defined | October 2010 |
| • Architecture defined | March 2011 |
| • Communication platform ready | February 2012 |
| • Applications ready for integration | April 2012 |
| • Applications & test vehicles ready for evaluation | August 2012 |
| • Final results | March 2013 |



Technical Approach

eCoMove applications make use of eco cooperative data based on vehicle-to-vehicle (V2V) and vehicle-to-infrastructure (V2I) communication. This constant swapping of energy-relevant information between driver, vehicle and traffic system allows them to improve their overall energy performance.

The eco Cooperative Horizon is one of the key elements of the project innovation. It provides the most probable preview of the road segment ahead, and how this will evolve in the reaction horizon of the driver, taking into account fuel consumption information collected from ecoMaps (digital maps enhanced with eco-attributes), traffic management systems, other vehicles and infrastructure systems via V2V and V2I communication.

Achievements

After performing an in-depth analysis of user needs and driving inefficiencies, eCoMove partners have elaborated a number of use cases addressing these. Furthermore, the eCoMove architecture and system specifications have been finalised and prototype development has started.

Budget	22.6 M€	Funding	13.7 M€
Duration	36 months	Start	April 2010
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