Cooperative mobility systems deployment: EU perspectives and outlook

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Presentation outline

- Compass4D
- CO-GISTICS
- Interoperability and International cooperation
- COMPASS4D activities in Detroit 2014 ITS World Congress
- Open demo at Bordeaux 2015 ITS World Congress
COMPASS4D: general info

<table>
<thead>
<tr>
<th>Name</th>
<th>Cooperate Mobility Pilot on Safety and Sustainability Services for Deployment</th>
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</thead>
<tbody>
<tr>
<td>Acronym</td>
<td>Compass4D</td>
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<tr>
<td>Program</td>
<td>CIP (Competitiveness and Innovation)</td>
</tr>
<tr>
<td>Start date</td>
<td>1\textsuperscript{st} January 2013</td>
</tr>
<tr>
<td>End date</td>
<td>31\textsuperscript{st} December 2015</td>
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<tr>
<td>Consortium</td>
<td>33 partners</td>
</tr>
<tr>
<td>Sites</td>
<td>7 pilot sites</td>
</tr>
<tr>
<td>Budget</td>
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</tr>
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<td>Funding</td>
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COMPASS4D: objectives

1. Ensure successful deployment and after-project life of three piloted cooperative services, aiming at proving both safety and energy efficiency benefits and traffic flow optimisation.

2. Globally harmonize specifications for the three piloted services, through close cooperation with the US & Japanese counterparts, other CIP pilots and relevant standardization bodies.

3. Establish and follow an agreed harmonized testing, installation, monitoring and assessment strategy, as well as a common strategy for deployment of all three specified cooperative systems across all pilot sites.
COMPASS4D: objectives

4. Prove safety and energy efficiency benefits to all relevant stakeholders by collecting critical mass of data in 12 months full-scale operations of selected cooperative systems at each pilot site.

5. Collaborate with relevant standardisation bodies, mainly but not exclusively ETSI and CEN, in order to ensure full interoperability of the deployed cooperative solutions.

6. Create a set of best practices on the basis of the pilot site operations including guidelines, business models, manuals, and training material.
COMPASS4D: pilot sites

Bordeaux

Vigo

Copenhagen

Helmond

Thessaloniki

Newcastle

2014 Global Symposium on Connected Vehicles and Infrastructure
April 21-23, 2014

[Map showing European locations with markers for pilot sites]
COMPASS4D: services

- Road Hazard Warning (RHW)
- Red Light Violation Warning (RLVW)
- Energy Efficient Intersection Service (EEIS)
## CO-GISTICS: general info

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CO-GISTICS: objectives

To deploy, validate and set-up after project life of the piloted cooperative logistics services:

To effectively **increase energy efficiency by reducing fuel consumption** and equivalent CO2 emission and lower pollution for sustainable mobility of goods

To **improve the efficiency of logistics** through the convergence of M2M (and freight Object to Object) and Cooperative Systems (the connected car) technologies
CO-GISTICS: pilot sites

- Arad
- Bilbao
- Bordeaux
- Thessaloniki
- Frankfurt
- Vigo
- Trieste
CO-GISTICS: services

- Intelligent truck parking and delivery areas management
- Multimodal cargo
- Eco-drive support
- CO2 monitoring
- Priority & Speed advice

OPEN CO-GISTICS ARCHITECTURE
Models & Standards

CO-GISTICS SERVICES
Interoperability and international cooperation

- Establish and follow an effective strategy for harmonised testing, installation, monitoring, assessment and deployment of the cooperative systems across all pilot sites.

- Collaborate with relevant standardisation bodies, in order to ensure full interoperability of the deployed cooperative solutions and services (e.g. CEN, ETSI WG ITS on M2M, etc.)

- Globally harmonize specifications for the three piloted services, through close cooperation with the US & Japanese counterparts, other CIP pilots and relevant standardization bodies.

- Disseminate and communicate activities and results to a large audience worldwide.
COMPASS4D in Detroit 2014 ITS World Congress

- Special Interest Session: Deployment of Cooperative ITS services: a global affair (ERTICO, RITA – US DoT, Nissan, UMTRI, Topos-Aquitaine, CERTH)

- Executive Session: From connected to automated vehicles

- EU-US cooperation meeting
Open demo at Bordeaux 2015 ITS World Congress

- Compass4D final event
- Compass4D demonstration with 22 RSUs and 80 vehicles
- Services: Road Hazard Warning, Emergency vehicle priority, GLOSA, Start/stop idling
- Open to all http://www.itsworldcongress.com
Thank you for your attention

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