“ECITL 2014, SUSTAINABLE DEPLOYMENT OF COOPERATIVE ITS FOR LOGISTICS“

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ERTICO – ITS EUROPE
Project general 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
Project objectives 1/2

1. Ensure successful deployment and after-project life of the piloted services, aiming at proving that cooperative logistics services (including intelligent cargo) combined with existing freight relevant services result in a more sustainable and cost effective goods transportation.

2. Create the concrete synergies with existing pilots and projects as well as exploiting former project results (e.g. EURIDICE, iCargo, FREILOT, Compass4D) especially those who are using standardised communications.

3. Enhance the use of more sustainable transportation by enabling better interfaces (using E-freight) between different transport modes in a more optimised way, ensuring control over the transport flow over the total transport chain in a manageable manner.

4. Create from pilot site experiences deployment models for selected integrated M2M and cooperative ITS services including guidelines, business models, manuals, training material as well as potential regulation changes.
Project objectives 2/2

5. Establish and follow an effective strategy for harmonised testing, installation, monitoring, assessment and deployment of the integrated M2M and cooperative systems across all pilot sites.

6. Collect critical mass of data during twelve months of operations of all services on each pilot site followed by a second phase during and after which the services are fully operable.

7. Collaborate with relevant standardisation bodies in order to contribute to the interoperability of the deployed services (e.g. ETSI WG ITS on M2M).

8. Disseminate and communicate activities and results to a large audience and concretely plan the exploitation of the results after the end of the project.
Pilot sites

- Arad
- Bilbao
- Bordeaux
- Thessaloniki
- Frankfurt
- Vigo
- Trieste
CO-GISTICS Services

OPEN CO-GISTICS ARCHITECTURE
Models & Standards

CO-GISTICS SERVICES

Intelligent truck parking and delivery areas management

Multimodal cargo

Eco-drive support

CO2 monitoring

Priority & Speed advice
Intelligent truck parking and delivery areas management (ITP/DAM)
Multimodal cargo
Priority and speed advice

-A general intersection approach advice to the freight transport

-Priority for selected transport vehicles
CO2 estimation and monitoring

Vehicles equipment with:
- GPS / GPRS
- Fuel Flow Meter
- Fuel Level Sensor
- Weighing Sensors
- RFID Readers
- Bins with RFID Tags

GSM

Cloud

Web

Authentication System

Servers

Web / Intranet

External Users

Internal Users

Electronic Vehicles Register

Calculation Parameters

Accounting Profit
Eco-drive support

GUI for drivers inside the vehicle using smartphones with ATP

Main Menu

S P A

......T......

167 g/km CO₂
95.7 km/h
93.5 °C

44 g/km CO₂
93.5 km/h
92.9 °C

171 g/km CO₂
91.7 km/h
91.9 °C

ACCL
AERO
GRAD
ROLL
STS

ACCL
AERO
GRAD
ROLL
STS

ACCL
AERO
GRAD
ROLL
STS
# CO-GISTICS services per pilot

<table>
<thead>
<tr>
<th>Pilot site Services</th>
<th>Arad</th>
<th>Bilbao</th>
<th>Bordeaux</th>
<th>Frankfurt</th>
<th>Thessaloniki</th>
<th>Trieste</th>
<th>Vigo</th>
</tr>
</thead>
<tbody>
<tr>
<td>ITP/DAM</td>
<td>x</td>
<td>x</td>
<td></td>
<td>x</td>
<td></td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Priority &amp; Speed advice</td>
<td>x</td>
<td></td>
<td></td>
<td>x</td>
<td>(speed advice)</td>
<td>x</td>
<td>(speed advice)</td>
</tr>
<tr>
<td>Eco-drive support</td>
<td>x</td>
<td></td>
<td></td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>CO2 foot-print estimation and monitoring</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Multimodal cargo</td>
<td></td>
<td></td>
<td>x</td>
<td></td>
<td></td>
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<td>x</td>
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</tbody>
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## CO-GISTICS units per pilot site

<table>
<thead>
<tr>
<th>Location</th>
<th>Drivers</th>
<th>Trucks</th>
<th>Other Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arad</td>
<td>20</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td>Bilbao</td>
<td>20</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td>Bordeaux</td>
<td>150</td>
<td>150</td>
<td>4 ships/day</td>
</tr>
<tr>
<td>Frankfurt</td>
<td>Up to 50</td>
<td>Up to 50</td>
<td></td>
</tr>
<tr>
<td>Thessaloniki</td>
<td>15</td>
<td>10</td>
<td>* Proof of Delivery</td>
</tr>
<tr>
<td>Trieste</td>
<td>50</td>
<td>50</td>
<td>3 trains/day, 2 ships/day</td>
</tr>
<tr>
<td>Vigo</td>
<td>15</td>
<td>15</td>
<td></td>
</tr>
</tbody>
</table>
Project in a nutshell

<table>
<thead>
<tr>
<th>NAME</th>
<th>Cooperative logistics for sustainable mobility of goods</th>
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<tbody>
<tr>
<td>ACRONYM</td>
<td>CO-GISTICS</td>
</tr>
<tr>
<td>PROGRAM</td>
<td>Competitiveness and Innovation</td>
</tr>
<tr>
<td>START DATE</td>
<td>1\textsuperscript{st} January 2014</td>
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<tr>
<td>END DATE</td>
<td>31\textsuperscript{st} December 2016</td>
</tr>
<tr>
<td>CONSORTIUM</td>
<td>34 partners</td>
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<tr>
<td>TYPOLOGY</td>
<td>CIP Pilot B</td>
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<td>SITES</td>
<td>7 pilot sites</td>
</tr>
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<td>BUDGET</td>
<td>9,996,000€</td>
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<td>FUNDING</td>
<td>4,998,000 €</td>
</tr>
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<td>PROJECT OFFICER</td>
<td>Wolfgang Hoefs – DG CONNECT</td>
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</tbody>
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Project Consortium

- Public authorities
  - Bilbao
- Freight forwarders
  - Samer & Co. shipping
  - SeaWay
- Terminal operators
  - FERNETTI
- Mobility associations
  - CEAGA
  - mlc-its-euskadi
  - HOLM

Service providers
- Atos
- T-Systems
- TELVENT
- etra I+D
- PluService.NET
- NOVACOM
- Aguila Technologie
- m3 SYSTEMS
- HERE
- TeamNet

Fleet operators
- autamarocchi spa
- DB Schenker
- DHL
- azkar
- IRU Projects

Research institute
- CTAG
- ICOOR
CO-GISTICS at the ECITL 2015

From 5 to 7 October 2015, the European CIP project CO-GISTICS is proud to co-organise the ECITL 2015 in Bordeaux, France, in conjunction with the next 22nd ITS World Congress.

During both events, the project will show its results in the exhibition area with a stand providing information on the project and a first demonstration of its work. A demo truck in the demonstration area will offer a live demonstration of cooperative ITS applications for logistics.
3 years of hard work for a memorable success