GAIN - Galileo for Interactive Driving

From 2012-02-01 to 2014-07-31, closed project

Project details

<table>
<thead>
<tr>
<th>Total cost:</th>
<th>Topic(s):</th>
</tr>
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<tbody>
<tr>
<td>EUR 3 594 398</td>
<td>Galileo.2011.1.2-1. - Use of EGNOS and early GALILEO services for professional applications</td>
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<tr>
<td>EU contribution:</td>
<td></td>
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<tr>
<td>EUR 2 018 487</td>
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<tr>
<td>Coordinated in:</td>
<td>Call for proposal:</td>
</tr>
<tr>
<td>Italy</td>
<td>FP7-GALILEO-2011-GSA-1-a See other projects for this call</td>
</tr>
<tr>
<td>Funding scheme:</td>
<td></td>
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<tr>
<td>CP - Collaborative project (generic)</td>
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Objective

The aim of the GAIN project is to develop and commercialize the Enhanced Active Green Driving (EAGD) system for real-time optimization and reduction of CO2 emission and fuel consumption. The proposed solution is based on an already existing prototype called Active Green Driving (AGD) which needs to be extended and optimized. The current prototype is limited by only using a simple GPS system and static route information from standard navigation maps. Due to erroneous positioning solutions, the AGD prototype often proposes inappropriate manoeuvres to the driver. To prepare a successful market entry for this green driving application, this limitation has to be removed.

Within the GAIN project, a refined positioning algorithm which is based on EGNOS/EDAS data will be developed. Further, the concept of position integrity is introduced and used to innovatively detect multipath in urban areas through a GNSS/INS tightly coupled approach and 3D modelling of the environment. Furthermore, communication through Vehicle-to-Vehicle standards will be used to improve the Electronic Horizon to also contain dynamic information about other vehicles present on the road.

In order to achieve these challenging goals, GAIN will gather partners with outstanding expertise and wide experience in the field of satellite navigation, communication, map management and telematics. The consortium covers the complete value chain and is supported by a market research company and a university.

GAIN has a clear intention to commercialize the project outcome, and, thus, to provide an innovative green driving product which is accepted by the end user. The EAGD system will be based on EGNOS/EDAS. Furthermore, the project will conduct an active dissemination strategy through web site and conference contributions. In addition, GAIN will focus on compliance with AUTOSAR standard and directly contribute to define guidelines for proper applications of EGNOS/EDAS corrections in transport domain.
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EU contribution: EUR 180,975

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Subjects
Transport

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