Methodologies and Tools Advancing the Design and Validation of EGNOS/GALILEO Aware Applications

Fact Sheet

Project Information

MAGNA
Grant agreement ID: 232131
Project website
Status
Closed project
Start date
1 May 2009
End date
30 April 2011

Funded under
FP7-SME
Overall budget
€ 1 513 424,20
EU contribution
€ 1 083 726

Coordinated by
SOLINET GMBH
TELECOMMUNICATIONS
Germany

Objective

Positioning applications (especially in Europe) are based on positioning data mainly provided by GPS (and in the medium-term GALILEO), which in many cases may become problematic due to the low accuracy provided (thus preventing the take-up of services with high accuracy constraints), the low availability of satellite positioning signals particularly in urban areas and the reliability of the positioning information, the so-called integrity. GNSS Augmentation Systems like WAAS (in United States), MSAS (in Japan) and EGNOS (in Europe) has been a consistent attempt to overcome these GNSS problems and improve the positioning applications attributes, such as accuracy, reliability, and availability. These systems have reached today a quite mature state, however related technology and algorithms on the applications side have being certified and used with efficiency only in niche areas like the air navigation systems. Still the significant technological know-how of embedding EGNOS (in Europe) functionality in positioning applications, has prevented European
EGNOS (in Europe) functionality in positioning applications, has prevented European SMEs, developing location based applications, from adopting these new technological opportunities, thus not getting them in a position to be able to exploit the accuracy, reliability, and availability offered by EGNOS (and future GALILEO) in their applications. This fact also prevents them from presenting new pioneering positioning applications, as it would require a huge EGNOS/GALILEO technology investment, which usually is outside of the core business of such companies. The MAGNA project aims to provide a viable solution to the aforementioned SME problems, by supplying the software libraries and tools required for the design and validation of EGNOS/GALILEO aware positioning applications, targeting SMEs who are seeking to improve their existing positioning applications, and launch new applications making full utilisation of the EGNOS/GALILEO technologies.

Field of science

/ natural sciences/computer and information sciences/software
/ social sciences/economics and business
/ social sciences/social and economic geography/transport/navigation systems
/ social sciences/sociology/governance/public services
/ social sciences/social and economic geography/transport/navigation systems/satellite navigation system/global navigation satellite system

Programme(s)

Topic(s)

Call for proposal

FP7-SME-2008-1

Funding Scheme

BSG-SME - Research for SMEs

Coordinator

SOLINET GMBH TELECOMMUNICATIONS

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Koenigstrasse 30
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Activity type
Private for-profit entities (excluding Higher or Secondary Education Institutions)

EU contribution
€ 427 862
Participants (9)

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- EU contribution: € 222 923

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**MILTECH HELLAS BIOMICCHANIA EMPORIOANTIPROSOPEIES ILEKTRONIKON OPTIKON KAI MICHAANOLOGIKON EIDON AE**
- Greece
- EU contribution: € 218 247

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**VMW Solutions Ltd.**
- United Kingdom
- EU contribution: € 6,904
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Andrew Marsh (Prof.)

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EU contribution
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