

Cutting-edge applications

About 40 demonstrations of innovative satellite navigation applications will be on public view in a unique 'Application Village' outside the Berlaymont building, the headquarters of the European Commission. Entry to the Application Village demonstrations is free and open to the public.

"The goal of Galileo Application Days is simple – to not only talk about the range of cutting-edge applications being developed in Europe, but to show them," says GSA Executive Director Pedro Pedreira. "Preparing for Galileo requires both establishing the infrastructure in space and preparing for it on the ground, through fostering the development of new products and services that harness the many benefits offered by increasingly more accurate and reliable location and timing information."

Visitors to the live demonstrations will get a chance to see new satellite navigation applications developed through the EU's 7th Framework Programme for Research, the Galileo Masters Competition, the ESA Technology Transfer Programme, and national and regional initiatives.

The demonstrations will take place areas of the Village designed to represent the use of satellite navigation under various scenarios. The relevant location-based service, maritime, road transport, leisure, health and agriculture-related demonstrations will occur in the 'neighbourhood', the 'city', the 'port', the 'road' and the 'countryside'.

About 40 projects will be on display. For example, the IEGLO project, which has developed a hand-held GNSS tracking device for the elderly and those affected by Alzheimer's, will be shown in the neighbourhood area. ImaGeo, an application to geo-tag photos through mobile EGNOS-enabled devices, will be in the city area. The 'Galapagos' project will demonstrate a positioning system for container tracking in the road and port areas.

Networking for GNSS development

The main conference, which will take place across the street from the Application Village, features speakers from around the world working in a variety of disciplines relating to satellite navigation applications. Networking sessions, speed business meetings and a workshop for SMEs place an emphasis on the commercial development of innovative satellite navigation-powered products and services.

Presentations by the EU officials and a round-table debate on the future of satellite navigation applications will begin the conference in the afternoon of 3 March. On 4 March, the 2010 Galileo Masters competition will be launched. The GSA, a European Community Agency, co-sponsors the Galileo Masters Prize, as well as awards an annual 'special topic prize' which targets entrepreneurs with a commercial plan to use EGNOS.

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Several special topic prizes are sponsored by organisations such as the GSA and ESA, and companies such as T-Systems and Navteq. Regional awards will be awarded by competition partner regions from Europe and around the world.

Prizes for innovative commercial proposals

Thorsten Rudolph, Managing Director of the Application Centre for Satellite Navigation Oberpfaffenhofen (AZO), the competition's organiser, says this year's Galileo Masters will feature additional regional prizes.

The goal is to have about 20 partner regions from across Europe involved in the competition. Joining the European Network of Living Labs has given the competition a wider reach in academia and among younger researchers. Rudolph expects to achieve more than 300 entries to the competition as a result.

The concept for the launch in Brussels allows the work of many projects to be shown to the public and conference delegates, he says. "Showing the outcomes of research projects and allowing the public to have a look at the successful results is an important step forward for the competition."

The afternoon of 4 March features three parallel sessions. One session will feature the use of satellite navigation in the social and public sector. The second session will focus on applications in the leisure, tourism and location-based sectors. The third will feature the aviation sector. The final morning session on 5 March continues with sessions on the road, high-precision applications and application technologies.

More investment needed

European companies already have about a one-third share of the global satellite-navigation market. Europe is also at the forefront of innovation in many application areas. In the road sector, Europe is pioneering traffic management via satellite-based systems. Mobile location-based services, such as many of the popular iPhone and Android applications, were created in Europe.

Europe's satellite navigation programmes, EGNOS and Galileo, are expected to give a further boost to these commercial ventures. However, Bosco warns that Europe risks falling behind in satellite navigation development due to the current low investment in research.

"Europe is investing very little in satellite navigation application research, whilst all other GNSS 'providers' are moving hundreds of millions – from civilian and military budgets - into such ventures," he says. "Such investments will lead to ubiquitous, civilian applications that reach maturity long before Europe is ready to build on the infrastructure of the Galileo programme, unless the trend is reversed and a substantial European budget is granted for research on applications and for the end-user segment."

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BRUSSELS

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Unique opportunity

Galileo Application Days provides a unique opportunity for GNSS veterans and novices alike to see, touch, learn and experience the first great strides that have been achieved in this exciting emerging and technological area.

The European Satellite Navigation Competition is an international competition that awards the best ideas for innovative applications in satellite navigation. It has been held annually since 2004 under the patronage of the Bavarian State Ministry for Economic Affairs, Infrastructure, Transport, and Technology.

Go to **www.application-days.eu** for more information and to register for the event.

For more information:

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