

FIRST ANNOUNCEMENT

Second Galileo Conference for an Enlarged Europe

Budapest (Hungary)
27-28 May 2004

CALL FOR PAPERS



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Co-sponsored by
Hungarian Space Office

Background

GALILEO is a major European Initiative involving both the European Commission and the European Space Agency. It aims to provide global navigation services specifically designed for commercial purposes.

Europe has decided that the development of a truly civilian system, GALILEO, is of paramount importance for the safe development of satellite navigation use throughout a large range of mass market and professional applications.

GALILEO will be operational from 2008. Its precursor, EGNOS, will already offer enhanced navigation services as from 2004. GALILEO will provide a wide range of improved and more reliable services to users over the entire surface of the earth. Several types of services will be provided, ranging from general purpose free-of-charge ones to services for a number of specific user groups such as safety-of-life and governmental users. Relative to the existing American GPS system, GALILEO will feature:

- A higher degree of precision, better reliability and more homogeneous coverage (95% of all urban areas covered at all times without interruption, compared to 50% today);
- A guaranteed level of quality and continuity of services, which will make satellite navigation available for safety-critical applications such as train control or critical flight phases in aviation.

Most importantly, GALILEO is being developed with a strong regional component. GALILEO offers countries across the world a number of opportunities to participate in and benefit from the development of GALILEO. Regions can host GALILEO ground stations, service providers can disseminate regional integrity information via GALILEO satellites, while local businesses can deploy local augmentation elements for demanding professional applications or location based services. This will benefit local industries, service providers and citizens alike.

GALILEO will contribute to the development of a wide range of applications and services covering many economic activities and all segments of society. In road and rail transport, for example, it will make it possible to predict and manage journey times, or, thanks to automated vehicle guidance systems, help reduce traffic jams and cut the number of road accidents. However, although transport by road, rail, air and sea is the example most frequently quoted, satellite radio navigation is also increasingly of benefit to fisheries and agriculture, oil prospecting, defence and civil protection activities, building and public works, etc. In the field of telecommunications, allied with other new technologies such as GSM or UMTS, GALILEO will increase the potential to provide positioning information as well as to provide combined services of a very high level.

Aims

The Hungarian Space Office proposed this Conference to EURISY to bring together experts, operators, designers and service providers and the user community (public and private sector) from both current Members and the candidate countries to the European Union to:

- present the state of the art of GALILEO and EGNOS;
- discuss the applications of GALILEO and highlight the early opportunities offered by EGNOS
- discuss the research and development activities of GALILEO
- underline benefits in the frame of the EU enlargement;
- encourage active participation from the EU candidate countries;
- examine the down stream potential and spin-off benefits once the system is operational;
- discuss possible partnerships.

The dates have been specifically chosen to tie in with another Congress and Exhibition organised by ERTICO "Moving towards an Integrated Europe" which will take place in Budapest from 24-26 May 2004 in case participants would like to attend both events.

This Conference is a follow-on to the 1st Conference for EU candidate countries held in Warsaw (Poland) in May 2003 entitled "Galileo for an Enlarged Europe".

Programme Outline

Opening Session

Invited papers from:

- Hungarian Ministry of Informatics and Telecommunications
- EURISY
- Hungarian Space Office
- European Commission, European Space Agency, Galileo Joint Undertaking
- Overview of Satellite Positioning and Navigation – How does it work?

followed by Sessions devoted to:

The Importance of Satellites for Navigation

- Satellite Positioning and Navigation Systems Today and in the Future
- Satellite Positioning and Navigation – the Benefits for Humankind
- Satellite Positioning and Navigation – Business and Economic factors
- Satellite Financing

Transport Applications: Air, Water, Rail and Road

- | | |
|---|-----------------------------|
| - Air Traffic Control | - Road telematics |
| - Surface movement and guidance control | - E-tolling |
| - Helicopters | - Traffic management |
| - Off-shore navigation | - Fleet management |
| - Harbour movements | - Multimodal transport |
| - Vessel monitoring | - Dangerous goods transport |
| - In-land Waterways navigation | - Public transport |
| - Train control | - Safety |
| - Passenger services | |

Key needs and Benefits

- High Integrity level
- Continuity of Information
- Increased Security
- Better Timetables

Non Transport Applications

- | | |
|--|--|
| - Agriculture | - Emergency services (e.g. E112) |
| - Fisheries | - Telecommunications |
| - Geodesy | - Location-based services |
| - GIS | - Timing |
| - Surveying | - Power network synchronisation |
| - Personal mobility (e.g. Navigation of blind people, children tracking) | - Professional applications (e.g. exploration) |
| | - Scientific applications (e.g. environment) |

Key Needs and Benefits

- Accuracy
- Higher and faster update rate
- Weather independence
- Increased Productivity, cheap and user friendly

Economic, Legal and Social Impact of Navigation Satellites

- Economic growth
e.g. Business development
- The Impact of the above on daily life
e.g. privacy, contracts
- Education and outreach
e.g. upgrading and innovation in schools, colleges and universities
- Liability aspects
e.g. service guarantees

Target Audience

Users and Service Providers from:

- Government Departments
- SME's
- Service providers
- Mapping Agencies and companies
- Traffic Planners and Controllers
- Police
- Civil Protection
- Professionals linked to applications (e.g agronomists)
- Teachers
- Research and Academia

Practical Details

Working language: English

Venue: Ministry of Informatics and Telecommunications
Budapest, Hungary

Submission of Papers:

Abstracts should be submitted by e-mail to: eurisy-lc@wanadoo.fr

Deadline: 27 February 2004.

Abstracts should be of a maximum of 2 pages, and should include full details of submitter (name, professional address and position, telephone, e-mail, etc).

Confirmation of papers selected will be sent by e-mail Mid-March 2004.

Poster Session:

A Poster Session area will be provided.

Registration Fee:

There will be no Registration Fee for Presenters.

The Registration Fee for Participants is: 100 € up to 31 March 2004, and thereafter 150 €.

N.B. Registration forms will be distributed with the Second Announcement.

Programme Committee

Chairman: Előd Both, Hungarian Space Office

Members: Dominique Fourny-Delloye, Centre National d'Etudes Spatiales, France

Valerie A. Hood, EURISY

Apostolia Karamali, GALILEO Joint Undertaking

Piero Messina, European Space Agency

Johannes Ortner, Vice-President of EURISY