



NEREUS Workshop on

“EGNOS AND GALILEO FOR MARINE AND MARITIME APPLICATIONS: OPPORTUNITIES AND CHALLENGES FOR EUROPEAN REGIONS”

16th – 17th April 2012

Veneto Region, Palazzo Grandi Stazioni (Fondamenta Santa Lucia) Venice - Italy

EGNOS today and GALILEO tomorrow offer many opportunities for new GNSS based applications for marine and maritime user communities. EGNOS/GALILEO will be fundamental tools for boosting innovation and progress in navigation (in numerous respects: ocean, coastal, port approach and inland waterways) as well as in port activities, in professional and also in recreational services. Many marine activities such as fishing, oceanography, Marine Spatial Planning, oil and gas exploitation, environment protection, etc benefit from satellite navigation. Given the broad range of potential uses, the development of these applications will represent an added value for a vast number of local and regional end-users such as: port authorities, coast guards, industrial companies, maritime transportation companies, local administrations, non-profit and sport organizations.

In 2011, NEREUS (the Network of European Regions Using Space Technologies) published a booklet – “*Satellite Navigation Application in the NEREUS regions*” – containing 23 short descriptive articles that illustrate the widespread and growing application of GNSS in the European regions. In this publication, a number of interesting experiences concerned the marine and maritime sector. Coast and seas are strategic for the well-being and for the prosperity of European coastal regions and cities. They have a strong innovation potential linked to their specific geographical and structural characteristics, offering a great source of potential to support the development and use of GNSS applications.

The aim of this NEREUS Workshop is to raise awareness for the significance of EGNOS/Galileo in the marine and maritime sector, and in identifying key service areas in which Galileo may provide an added value for different end-user groups. The workshop will highlight existing creative experiences and best practices of satellite navigation applications all around Europe. Emphasis will be placed on the role of regions in stimulating and supporting the development and use of space applications.

Specific objectives

- to discuss relevant users’ needs and problems in marine and maritime sector which would benefit from the added value of EGNOS/GALILEO applications.
- to collect, share and compare different experiences (best practices) in this field.
- to open a dialogue with the marine and maritime users community
- to reflect, at high level, on the further needs to promote the use of space applications in Europe
- to draft a position paper containing the key messages coming out of the workshop

NEREUS – Network of European Regions Using Space Technologies

As voice of the European Regions, NEREUS serves as an advocate for the regions in matters of space uses and also as a direct channel to the regional users of space technologies (such as local authorities, SMEs, universities and research institutes and citizens). The network is the key interface between the regional level and national and European institutions. NEREUS currently unites 26 European regions and 36



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Associate Members with the common objective to spread the use and understanding of space technologies across Europe for the benefit of regions and their citizens.

AGENDA

DAY1: Monday, 16 April 2012

9.30-10.00 Registration

10.00-11.00 Welcome and introduction

Marino Zorzato – Vice-President of Veneto Region

Antonio Cancian – Member of the ITRE Committee of the European Parliament

Michel Praet - Cabinet of the President of the European Council; Advisor for research, development, innovation, information society, space and cultural policies

Paolo Costa - President of Venice Port Authority

Roya Ayazi - Nereus General Secretary

11.00-12.45 SESSION1 - The role of GALILEO/EGNOS in supporting the European regions' policies, with particular focus in the maritime sector

Round table discussion

Chair: Pierpaolo Campostrini – CORILA, Chairman of the NEREUS Working Group on GNSS

Michel Praet - Cabinet of the President of the European Council; Advisor for research, development, innovation, information society, space and cultural policies

Gian Gherardo Calini – Head of Market Development of the European GNSS Agency - GSA

Clément Williamson – European Commission, DG Enterprise

Roya Ayazi – Nereus General Secretary

12.45-13.45 lunch

13.45-16.00 SESSION2a - Marine and maritime applications

Chair: Roya Ayazi – NEREUS General Secretariat

Hans de With - European GNSS Agency - GSA

Current status of EGNOS/Galileo and relevant GNSS projects and initiatives in the marine/maritime sector

Fabio Riva - VITROCISSET Belgium

COSMESMOS: COoperative Satellite navigation for MEteo-marine MOdelling and Services



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Massimo Pichini – Nextant SpA

MEDUSE project - Marine park Enhanced applications based on Use of integrated GNSS Services

Bernard Garnier - BlueSolutions Consulting - Pôle de compétitivité Mer PACA
Maritime Safety & Security Challenges

Philipp Berglez - TeleConsult Austria GmbH
NAVWAT2 Project - Future high precision navigation system for inland waterways

Antonio Casoria - NEXT-Ingegneria dei Sistemi S.p.A.
EASY Project – Easy And Safe Yachting

George Mermiris - University of Strathclyde (Glasgow)
Global Maritime Safety Instantaneous Monitoring

Pepa Sedó - CTAE - Aerospace Research & Technology Centre
Improved port efficiency and safety using navigation satellite system

16.00-16.30 Coffee break

16.30-17.45 SESSION2b - Marine and maritime applications

Chair: Hans de With – European GNSS Agency - GSA

Round table discussion

Andreas Kroier - DKE Aerospace Germany GmbH
Assessment of EGNOS potential in the maritime and inland waterways transport sector

Alberto Sonino - Project manager America’s cup world series Venice
Sport race services

David Bonacci – TESA - Telecommunications for Space and Aeronautics
Satellite reception of AIS messages

Alessandro Caporali - CISAS, University of Padua; **Maurizio De Gennaro** – Veneto Region
Offshore precision position and navigation services from permanent GNSS network of the Regione Veneto

Oscar Pozzobon - QASCOM
GNSS in maritime critical applications

17.45-18.30 SESSION3 – Interactive session on the call for proposals EMMIA (European Mobile and Mobility Alliance)

Clément Williamson – European Commission, GMES Bureau (DG Enterprise)
EMMIA new call for proposals on GNSS and GMES-based services

Steve Fuller – GNSS Research Applications Centre of Excellence - GRACE (East - Midlands)
Policy Learning Platform



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Presentation and discussion of new project ideas

DAY 2: Tuesday, 17 April 2012

9.00-10.30 SESSION 4: Port operation

Chair: George Mermiris - University of Strathclyde (Glasgow)

Benjamin Hodgson- BMT

SAFEPORT Project

Round table

John Moore- Port of Dublin

José Andrés Giménez Maldonado - Port of Valencia

Christian D'Antiga – Port of Venice

10.30-11.00 Coffee break

11.00-12.30 NEREUS WG GNSS reserved session

Marine contribution on the Vision document (brainstorming)