



**GMES-brochure "25 Uses of GMES in the NEREUS Regions"**

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On the occasion of the Toulouse Space Show 2010, NEREUS launched the GMES-brochure "25 uses of GMES in the NEREUS regions". The publication contains 25 short descriptive articles illustrating the widespread and growing application of Earth Observation and GMES in 17 of the 26 current NEREUS-member regions.

This collection of different regional case studies offers scope for exchange of knowledge and best practice among like-minded practice groups for whom collaboration in future projects might grow as a natural consequence of information sharing.

The NEREUS-Secretariat is currently pursuing a broad communication campaign addressing not only NEREUS-members but also European institutions as well as national and regional organizations. To

receive printed copies of the brochure please refer to the Secretariat. The online version of the publication will be available soon. In addition to that, the Secretariat welcomes feedback about the GMES-publication. Opinions, comments and suggestions by NEREUS-members is useful material for strengthening collaborations and plan future initiatives. Members who want to give their feedback on the GMES-publication are asked to contact the Secretariat.

Aldo Marolla, Veneto region, recently provided us with his first impressions regarding the GMES-publication. He appreciated the vast work by the NEREUS-EO/GMES Working Group, chaired by Prof Alan Wells (East Midlands) and Sonia Nicolau (Azores). However, looking at the publication as a whole Marolla would like to stimulate the group to continue working on a common message. The brochure is unique in showing that GMES has left the mere research stage, is already operational and used by regions in an array of different areas. Yet it is also a collection of single examples showing what each individual region is doing in its own territory. For Marolla, the added value of a network like NEREUS is that unites different

regions with common interests. This gives regions the arena to address European authorities as a whole, as a united community. The interplay of different regions with a common message is a powerful mean to advance things in Europe. Thus he would like to see NEREUS-members to strive hard to bring all these efforts together to elaborate a joint message.

When engaging with the Commission and Parliament at political, economic and social level, NEREUS must speak with one voice. This publication, as a collection of single examples of the GMES-uses in the NEREUS-regions, is a good start, however the network community must strike a common path in this important field.

With respect to the activities of the EO/GMES Working Group Marolla suggested, as a next step, to initiate efforts with the aim to develop concrete conclusions based on the outcome of the mapping results of the publication. Taking as an example the NEREUS position paper compiled by the GNSS WG in November 2009, he proposed that the EO/GMES WG's members should try to elaborate a similar document.

**NEREUS-Strategy debate**

Dear NEREUS-members,  
The Secretariat is still waiting for your comments on the discussion paper.

**Deadline has already passed!**  
The questionnaire is available to download on our website, send us your feed-back!

## NEREUS-WORKSHOP AT THE TOULOUSE SPACE SHOW 2010

NEREUS held a two-day workshop on the occasion of the Toulouse Space Show, 8- 11 June 2010. It was an excellent opportunity to exchange ideas and raise awareness among European stakeholders in the space sector on the activities and objectives of the network. The international event in Toulouse, which attracted around 80 participants, was also the ideal occasion for NEREUS to launch the GMES-publication "25 Uses of GMES in the NEREUS Regions".

The NEREUS-workshop kicked off on Tuesday, 08 June. NEREUS-president Mr. Alain Bénéteau in his opening speech underlined three elements as being essential for a prosperous development of space markets in Europe. He emphasized the importance of ensuring funds for space applications and the need for boosting standardization within Europe. Finally, he stressed upon the value of making regions and their citizens more aware on what space can be used for.

During the first day, round table debates were organized on the key areas of Regional Policy, EO/GMES, GNSS and Communication, Education and Training.

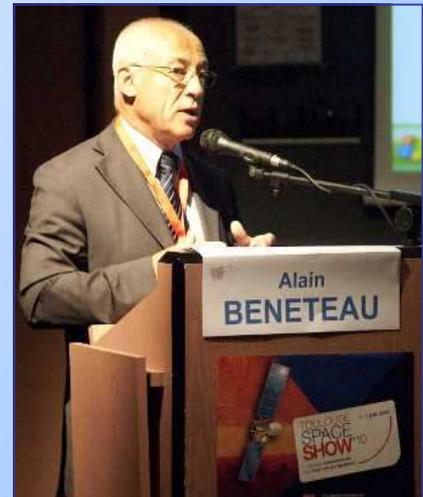
The Regional Policy round table, chaired by Mr Bénéteau, focused on the question: What role does space play for regions and - what role do regions play for space? Gerhard Stahl, Secretary General of the Committee of the Regions sent a video message. In his speech he highlighted the collaboration between CoR and NEREUS in this important policy field and put emphasis on the fact that each European region can benefit from the use of space. Besides Mr Stahl, Geraldine Naja-Corbin,

European Space Agency, Head of the Institutional Matters & Strategies Studies Office; José António Vieira da Silva Contente, Regional Secretary for Science, Technology and Equipments from the Azores and Félix Bellido Pla, Deputy Managing Director of the Madrid Aerospace Cluster, Madrid Region joined the debate as invited speakers.

Prof. Alan Wells (East-Midlands) and Ms Sonia Nicolau (Azores) co-chaired the EO/GMES round table. The discussion centred on: What can NEREUS do for public sector bodies and regional policy makers that they cannot do themselves? Different regional actors gave their contributions to the vivid discussion. Following GNSS round table, chaired by Ing. Pierpaolo Campostrini (Corila), reviewed the current status of the European GNSS programmes from a regional perspective. The discussion then focused on the main reasons for an apparent lack of applications and on the capability of European regions to contribute building a dynamic GNSS-market place.

The Communication, Education and Training round table was co-chaired by Ms Malecka Saleman (CNES) and RA Roya Ayazi (NEREUS-Secretary General). Special emphasis was put on young people and on how to attract them to space as an interesting field of study and work. For this purpose, a postgraduate student at ISAE, Sylvain Rouard, was invited to join the debate. Following a vivid discussion of different regional models, all participants agreed that NEREUS is a very valuable platform to share experiences at European level and to learn more about what other regions do.

The next two days were mostly dedi-



NEREUS-President Mr Alain Bénéteau's opening speech.

cated to paper presentations in the thematic sessions of the round tables. In addition to the conference program various member regions were among the exhibitors beside Midi/P: East Midlands, Lombardy, Wallonia. For a full list of exhibitors, please refer to:

[http://www.toulousespaceshow.eu/index.php?id\\_lang=2&id\\_rub=151](http://www.toulousespaceshow.eu/index.php?id_lang=2&id_rub=151).

A NEREUS stand was also organized by the contribution of Midi Pyrénées.

A special thank goes to Midi-Pyrénées region for inviting NEREUS to organize a workshop on the TSS2010.

For more information on the NEREUS-workshop, visit our website [www.nereus-regions.eu](http://www.nereus-regions.eu).



Regional Policy round table.



NEREUS-Secretary General RA R. Ayazi.

## Managing Editor's note



NEREUS-Secretary General  
RA R. Ayazi

Dear NEREUS-community,

We are pleased to release a new edition of our newsletter before the summer break. The Toulouse Space Show 2010 in June was another occasion to bring our members together for a fruitful exchange and to present our activities to an international audience. Positive was a remarkable transparency of the network in the political arena. Not only regional politicians referred to NEREUS as an important forum but also French Minister for Higher Education and Research Valérie Pécresse highlighted its significance for the sector: *«NEREUS, symbole aussi des mers et des océans, et qui aura finalement trouvé à Toulouse la dimension céleste et spatiale qu'elle*

*méritait* ».

With the publication "25 Uses of GMES in the NEREUS Regions" which was just in time ready for the international event in Toulouse we were able to reap the first benefits of our interregional collaboration. It is a unique promotional publication which demonstrates the vast opportunities for regional uses. Currently we are disseminating it throughout Europe and make special efforts to make the European, national as well as regional level aware of the initiative. Vice-President Tajani already responded that he considers the publication as very helpful for promoting GMES and explaining its importance to the citizens of Europe.

We wish you a pleasant reading and a nice summer and look forward to welcoming you in autumn to the NEREUS-General Assembly and GMES-Event under Belgian Presidency,

Roya Ayazi



United Nation Platform for Space-based information for Disaster Management and Emergency Response.

## UN-SPIDER: a platform to save lives

With the resolution 61/110 of 14 December 2006, the United Nations General Assembly has established UN-SPIDER (United Nations Platform for Space-based Information for Disaster Management and Emergency Response) as a programme of UNOOSA (United Nations Office for Outer Space Affairs).

UN-SPIDER is a platform which facilitates the use of space technologies for disaster management and emergency response. Its mission statement is to "ensure that all countries and international and regional organizations have access to and develop the capacity to use

*all types of space-based information to support the full disaster management cycle*".

Working on a wide range of different activities, UN-SPIDER is a gateway to space information for disaster management support; serves as a bridge to interlink the disaster management and space communities; and is a facilitator of capacity-building and institutional strengthening.

The main tool for information, communication and process support for UN-SPIDER is its Knowledge Portal, a web portal in which users can find and share guides, news, contact data and case studies. The Portal is

also a platform used by the National Focal Points (national institutions representing the disaster management and space applications communities) and by the Regional Support offices (regional or national centres of expertise setting up within an existing entity by one or a group of Member States) to find and share information.

One of the main activity carried out by UN-SPIDER is the so called capacity-building.

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*UN-SPIDER is a platform which facilitates the use of space technologies for disaster management and emergency response.*

(Continued from page 3)

It refers to the process of facilitating the strengthening of the competency of individuals, teams and agencies to use space-based information for disaster management and emergency response. The objective is to help countries recognize the value of space information and give them the opportunity to have access to it. The platform is giving also a Technical Advisory Support

to national institutions and to space and disaster management agencies.

Thanks to this programme, United Nations systems is addressing the private and the public sector on national and international level, connecting them so they can provide a validate contribution in managing natural hazards. In this way, space technologies facilitate the involvement of the private sector into public partnerships

in projects that save thousands of lives every year in the world.

The UN-SPIDER programme has offices in Vienna, where UNOOSA is located and Bonn, Germany. UNOOSA is also taking into account the prospect to open an office in Beijing, China.

More info:  
[www.un-spider.org](http://www.un-spider.org)

## *G-TRAIN: Supporting Education and Training in GNSS in Europe*

The G-TRAIN project aims to set up a European framework for higher education in the field of GNSS. This will be achieved both by coordinating and upgrading some already existing educational initiatives as well as creating new opportunities for students and teachers to get engaged. The project addresses the creation of a 2-year collaborative Master of Science (MSc) in GNSS as well as the strengthening of a Specialising Master for long-term professional education the support to PhD training and networking. G-TRAIN is also starting working on creating a Network of Universities in Satellite Navigation (SUN) that is expected to create, in turn, a proper framework to encourage exchanges and co-operation among universities, institutes and companies.

G-TRAIN is the first project addressing GNSS education from a European-centric perspective.

The forthcoming Galileo system, settled up with a significant effort in terms of investments and research expendi-

tures, needs for highly-qualified personals. The collaboration between centres of excellence aims to create a new generation of European GNSS experts. In the long-term G-TRAIN will put the basis for a durable European educational approach in the GNSS field.

Partners of the project are five universities and research centres located in three European regions (all of them are NER-EUS-full members):

- IT- Politecnico di Torino (POLITO);
- DE-Universitaet der Bundeswehr Muenchen (UNIBWM);
- FR-École Nationale de l'Aviation Civile (ENAC);
- IT-Istituto Superiore Mario Boella (ISMB);
- FR-Institut Supérieur de l'Aéronautique et de l'Espace (ISAE)

The G-TRAIN project received funding from the EU's FP7 2<sup>nd</sup> Call for €543.736. The total cost of the project is €558.587. Started the 18th

January 2010, it will last 36 months.

More info:  
<http://www.g-train.eu/>



*G-TRAIN  
Supporting Educa-  
tion and Training in  
GNSS in Europe*

*G-TRAIN is the first project addressing GNSS education from a European-centric perspective.*



## The GNSS Applications Action Plan

On 14 June 2010 the European Commission has adopted the GNSS Applications Action Plan with the intent to foster the EGNOS (European Geostationary Navigation Overlay Service) and Galileo downstream applications in Europe.

Described in a communication to the European Council and Parliament, the plan listed 24 actions point through which the Commission will coordinate the activities on GNSS domain.

With regard to the effort deployed by the EU budget, the current amount spent on GNSS R&D is very low compared to other high-technology sectors. To this end, the plan will seek an additional €362 million in the R&D Framework Programme (FP7) to support €100 million annual expenditures for GNSS user equipment and application market development over the next four years.

Through the action plan the Commission will also seek certification for EGNOS, a space-based augmentation system, and later Galileo which are used by civil aviation and commercial maritime purposes. These initiatives will be realized by the International Civil Aviation Organization (ICAO) and International Maritime Organization (IMO), respectively.

Maritime transport monitoring and surveillance could be greatly improved by EGNOS and Galileo applications offering new solutions for navigation, including in ports, coastal areas or dangerous shipping lanes like the English Channel.

Moreover, the Commission will investigate certification of Galileo for Advanced Driver Assistance Systems (ADAS) based on the integrity and authentication functions offered by Galileo. This will require the establishment of a certification body as well as certification procedures which need to be elabo-

rated in cooperation with vehicle manufactures, electronic suppliers and road service operators.

In order to boost people's confidence in the programmes, the EC will also undertake an awareness campaign including a series of tests to demonstrate the benefits of EGNOS and a marketing campaign. The campaign will target the road transport community, the aircraft manufacturers, the ship owners as well as agriculture and other natural resource management activities.

Lastly, the communication outlines a variety of "horizontal actions", such as encouraging its use in the surveying, an EU-wide geospatial infrastructure and combined applications of space-based systems including Galileo and the EO/GMES.

More information are available on:

[http://ec.europa.eu/enterprise/policies/space/galileo/index\\_en.htm](http://ec.europa.eu/enterprise/policies/space/galileo/index_en.htm)

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## Latest news on:

### GNSS APPLICATIONS

The EC-Audiovisual Service realized a video on the potential of EGNOS and Galileo global satellite navigation systems. The European Commission wishes to place European industry in pole position to avail of great business opportunities thanks to the European radio navigation programmes. It is also working hard to make citizens aware of the extensive benefits satellite applications can provide to their everyday lives.

To watch the video: [http://ec.europa.eu/avservices/video/video\\_prod\\_en.cfm?type=details&prodid=16410&language=en](http://ec.europa.eu/avservices/video/video_prod_en.cfm?type=details&prodid=16410&language=en)

### GNSS: FP7-3rd GALILEO CALL

On July 20<sup>th</sup> 2010 the FP7-3<sup>rd</sup> Galileo Call has been launched (deadline 25 November). It has an overall budget of **38 Million Euros** earmarked. It is planned to spend 8% of the budget on Coordination & Support Actions (100%-funding) and 72 % on Collaborative Projects. The call and its accompanying documents are available on the CORDIS-Website:

<http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.FP7CallsPage>

### RESEARCH\* EU FOCUS MAGAZINE

The edition N.06 June 2010 "Let's embrace space", of the research\*eu focus magazine, features a number of excellent European space research projects. The projects illustrate how space research through the development of critical technologies of strategic importance for Europe is both an immense source of inspiration, innovation and industrial renewal and a means of delivering concrete benefits for Europeans.

Additionally, the current edition of the publication will be available soon on the CORDIS-website: <http://cordis.europa.eu>

## ***NEREUS-events:***

### NEREUS-GENERAL ASSEMBLY

The next bi-annual General Assembly will take place in Brussels, on Tuesday, 30<sup>th</sup> November 2010. The candidacies for the Management Board, NEREUS-President, Vice-President and Treasurer should be sent to the Secretariat six weeks ahead of the General Assembly.

### "THE FUTURE OF GMES AFTER 2014 FROM A REGIONAL PERSPECTIVE"

On 1 December 2010, at the Latour de Freins Conference & Business centre in Brussels, will be held the NEREUS-event "The future of GMES after 2014 from a regional perspective".

In the context of the political dialogue between the network and the European institutions, the event will be an important occasion to emphasise the role of regions for the further development of GMES and acceptance among the European citizens. The event is co-organized by NEREUS and RIB, Research in Brussels. **SAVE THE DATE!**

## ***Other events:***

### ESA-INTERNATIONAL SUMMER SCHOOL ON GNSS: "A Worldwide Utility"

On 1-10 September 2010 at Slettestrand, Denmark, will be held the annual edition of the ESA international summer school on GNSS.

Young engineers and scientists from all over the world will gather in Denmark to study navigation by satellite, devising new scientific and technical improvements, products and services. A jury of experts from several European universities and Stanford University will select the best proposals.

### SPACE DAYS 2010

On 11-12 October 2010 Wallonie Espace presents the third edition of "Space Days 2010" focused on launchers, the European growing market of this decade. This year edition will be held in Charleroi, Belgium. The theme will focus on: Launchers, from Modelling to Operations.

More information: <http://www.space-days.com/>



We are on the web!

[www.nereus-regions.eu](http://www.nereus-regions.eu)

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*c/o Regione del Veneto*  
*Avenue de Teruren , 67*



**Editor: Federica Bordelot, NEREUS-Secretariat**

NEREUS a.i.s.b.l. is a not for profit international association incorporated under Belgian law (enterprise nr 898.367.280) in April 2008 to promote the use of space applications and emphasize the role of regions in space programmes and policies. It is financially independent and is funded by membership fees. Currently it counts 26 Member Regions and 27 Associate Members from all over Europe.