

NEREIDS

New Service Capabilities for Integrated and Advanced Maritime Surveillance

SPACE FOR A MORE EFFECTIVE AND CAPABLE EUROPE AT SEA

Space is a means for a safer world, and the S in GMES an important outlet for harvesting this potential. The NEREIDS project explores new ways to enhance security through maritime surveillance.

From the mid-Atlantic through the Mediterranean to the Horn of Africa, the European Union is faced with important security challenges at sea. Illegal drugs smuggling, trafficking of human beings and piracy constitute key threats to the EU and its Member States, and have been recognised as such in the EU's 2003 and 2008 security strategies (ESS).

With the world economy relying on sea routes for 90 percent of its trade, enhancing the effectiveness of maritime surveillance is a pivotal part of making Europe "more effective and capable" in dealing with contemporary security challenges – a stated aim of the ESS.

Maritime situational awareness by means of remote sensing data from satellites is a promising means for enhancing such surveillance, with the potential to integrate such technological achievements into Europe's Global

Monitoring for Environment and Security (GMES) system, set to become operational by 2014.

The NEREIDS project will explore how such efforts may become part of an operational S in GMES. In this respect, the project will develop an open architecture toolbox for such integration, which may be used to simplify the process of defining, implementing, testing and running live demonstrations with new Earth observation (EO) based capabilities for maritime surveillance in the GMES context. NEREIDS will persecute the best utilisation of existing Space infrastructure for maritime surveillance. Moreover, responding to concrete contemporary challenges, the project will undertake a series of demonstrations, applying remote sensing technologies to combat piracy and illegal fishing, address trafficking of drugs and human beings, and undertake traffic monitoring of vessels in real time.



CELESTINO GÓMEZ-CID
IS PROJECT COORDINATOR

QUESTIONS & ANSWERS

What do you want to achieve with this project?

The overall Objective of the NEREIDS project is to make a step forward in the utilisation of space based technologies in the support of Maritime Surveillance activities. NEREIDS will bring required tools, techniques and products to users in the context of an integrated maritime policy.

Why is this project important for Europe?

Europe is strongly linked to the sea and maritime resources are critical to Europe's economy. Better understanding of the maritime domain and its utilisation is a key to warranty maritime sustainable economy. NEREIDS will bring improved information for a better management of seas.

How does your work benefit European citizens?

NEREIDS activities will bring improved information on different maritime domains: fisheries, border control, maritime traffic, environment, illegal trafficking control. This information will be used to bring a more secure and more sustainable environment to all EU citizens.



structure d'un navire © Daoud - Fotolia.com

NEREIDS develops a toolbox for the use of GMES in the context of maritime surveillance

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LIST OF PARTNERS

- GMV Aerospace and Defence S.A.U, Spain
- Eosphere Limited, United Kingdom
- Aratos Anonymos Eteria Anaptyxis, Paragogis & Emporias Proionton Pliroforikis & Ipsilis Technologias (Aratos Technologies S.A.), Greece
- JRC –Joint Research Centre – European Commission, Belgium
- Universitat Politècnica de Catalunya, Spain
- Znanstvenoraziskovalni center Slovenske akademije znanosti in umetnosti, Slovenia
- GMVIS Skysoft SA, Portugal
- Nederlandse Organisatie voor Toegepast Natuurwetenschappelijk Onderzoek – TNO, Netherlands
- NATO Undersea Research Centre, Italy
- Thales Communications S.A., France
- Fraunhofer-Gesellschaft zur Förderung Der Angewandten Forschung E.V, Germany
- European Union Satellite Centre, Spain
- Advanced Computer Systems A.C.S. S.P.A., Italy
- Guardia Civil Española, Spain
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PROJECT INFORMATION

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