

DOLPHIN

Development of Pre-operational Services for Highly Innovative Maritime Surveillance Capabilities

BETTER LAW ENFORCEMENT AT SEA

The European Union is committed to enhancing safety and security at sea along its maritime borders. New technologies are needed to address this challenge. The DOLPHIN project paves the way for their development.

Effective maritime surveillance is needed in order to address multiple contemporary challenges, from efficient fisheries control, and marine environmental protection, to law enforcement activities along the EU's maritime borders.

Satellite technologies provide important means to facilitate such surveillance. Yet the current state-of-the-art in this field of remote sensing at sea may be enhanced through the development of technologies enabling a more interoperable surveillance system.

Interoperability at sea means bringing together existing monitoring and tracking systems used for maritime security and safety, fisheries control, protection of the marine environment, control of external borders and other law enforcement activities.

The project DOPHIN explores how maritime situational awareness can be enhanced by the use of space as-

sets that support operations carried out by civilian and military authorities such as monitoring of sea pollution, maritime traffic, and the fight against illegal trafficking of human beings and drugs.

Indeed, DOLPHIN aims at filling the identified technological gaps in current operational surveillance systems, in accordance with specific policy-driven requirements and scenarios arising from the EU. In particular, DOLPHIN will facilitate the detection of "small and non-cooperative maritime objects" by means of innovative radar satellite technologies in response to such policy needs.

Bringing together a consortium of partners with a solid background and expertise in the marine surveillance domain, DOLPHIN builds upon the achievements of previous projects in the area of GMES marine security, such as LIMES.



SERGIO PROIETTI
IS PROJECT COORDINATOR

QUESTIONS & ANSWERS

What do you want to achieve with this project?

DOLPHIN aims at developing new tools providing effective improvements of the state of art capabilities in Maritime Surveillance with respect to users' needs, in particular by filling present Technological Gaps and by developing new algorithms and Decision Support Modules.

Why is this project important for Europe?

DOLPHIN allows the whole of Europe to be updated to face the already known and incoming issues related to the maritime field, implementing technological solutions at the forefront within the maritime services based on space assets. It involves reference European maritime Users.

How does your work benefit European citizens?

Public authorities' institutional tasks in maritime surveillance for security and environmental purposes will be enhanced by DOLPHIN innovation and policy driven Decision Support Modules. Citizens will then directly benefit from DOLPHIN results.



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The DOLPHIN project addresses technological shortfalls that limit effective law enforcement at sea.

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LIST OF PARTNERS

- e-GEOS Spa, Italy
- Kongsberg Satellite Services As, Norway
- Qinetiq Limited, United Kingdom
- Syseco Sprl, Belgium
- Space Hellas S.A., Greece
- Collecte Localisation Satellites, France
- Forsvarets Forskninginstitut, Norway
- Nederlandse Organisatie Voor Toegepast Natuurwetenschappelijk Onderzoek – TNO, The Netherlands
- Deutsches Zentrum Fuer Luft - Und Raumfahrt Ev, Germany
- Selex Sistemi Integrati Spa, Italy
- Edisoft-Empresa De Serviços E Desenvolvimento De Software As, Portugal
- European Union Satellite Centre, EU
- Thales Alenia Space France, France
- Aster, Italy
- Universita Degli Studi Di Napoli Federico II, Italy
- Università Degli Studi Di Roma La Sapienza, Italy
- Instituto De Telecomunicacoes, Portugal
- Oceanwaves Gmbh, Germany
- Thales Alenia Space Italia Spa, Italy
- Gauss Gesellschaft Fur Angewandten Umweltschutz Und Sicherheit Im Seeverkehr Mbh, Germany

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PROJECT INFORMATION

Development of Pre-operational Services for
Highly Innovative Maritime Surveillance Capabilities
(DOLPHIN)

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Estimated total cost: € 7.053.006

