



Newsletter #2

NOVEMBER 2016

RANGER

RAdars for lo**NG** distance maritime surveillance**E**
and Search and Rescue ope**R**ations

www.ranger-project.eu

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For more Information

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Dear readers,

We are pleased to present the second edition of the RANGER newsletter.

RANGER is a 42-month European project, co-funded by the European Union's Horizon 2020 research and innovation programme. The consortium comprises 10 partners from 7 countries, in a balanced blend of technology providers, domain experts, and end-users, namely Radar-technology industrial organizations, academic/research institutes, high-tech SMEs, and highly relevant end-user organizations.

RANGER combines innovative Radar technologies with novel technological solutions for early warning, in view of delivering a surveillance platform offering detection, recognition, identification and tracking of vessels, beyond current radar systems' capabilities, thus drastically improving the response and intervention capacity of European Search and Rescue operations.

In this issue the ethical and societal dimensions of the RANGER solution will be discussed, and the latest project-related updates will be presented.

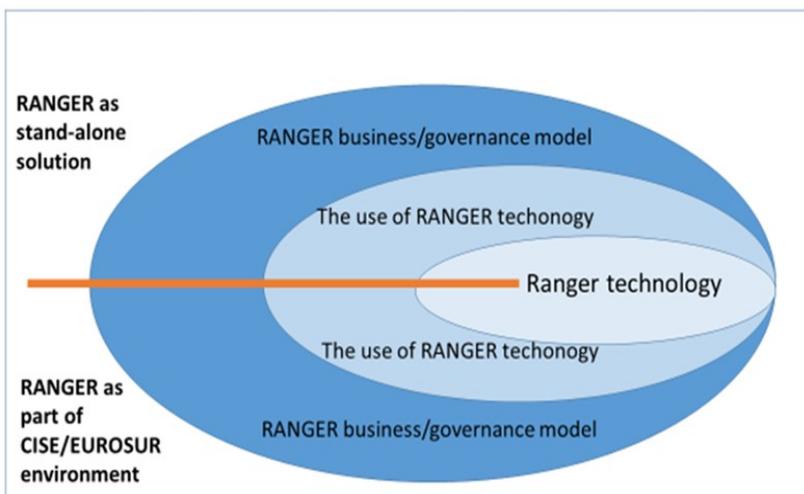
We hope you enjoy reading and we invite you to keep in touch with the RANGER Project!

The Project Coordinator **EXUS**

Ethical & Societal dimensions of the RANGER solution

EU Maritime Surveillance concerns the effective understanding of activities carried out at sea that could impact the **security, safety, economy or environment** of the European Union and its Member States. This also includes the duty to render assistance, that is manifested primarily as search and rescue (SAR) operations. The RANGER aims at re-enforcing this by combining innovative radar technologies with novel technological solutions for early warning, and by integrating them into the EU maritime surveillance ecosystem. The **ethical and societal considerations** of the RANGER solution therefore encompass the RANGER technology, how this technology will be used in various maritime surveillance activities, as well as the whole RANGER business model/procurement as part of the European Maritime Surveillance ecosystem.

In this context, RANGER published a report (Deliverable 3.1) on [Societally Acceptable and Ethically Sustainable Way of Performing Maritime Surveillance](#) with the aim to aid the RANGER developers, maritime surveillance experts and end-users, as well as the commercializers to take into consideration ethical and societal dimensions of the proposed RANGER solution. The main focus of the report is given on the **ethical**



sustainability of the proposed RANGER solution aiming for benefits of less human suffering, saved lives and reduced harm from illegal activities. The aspects of Maritime surveillance discussed in this report include border control, safety and security, customs, fisheries control and environment.

The biggest ethical challenge concerns the use of RANGER in border control, namely the tension between the humanitarianism and (internal and external) security, including rights of both EU citizens and migrants. On the other hand this is not only a challenge for RANGER, but for the whole EU

maritime surveillance policy. **Data security and data management** of RANGER is a general ethical issue in the context of all maritime surveillance activities using RANGER. RANGER's impact on the wildlife and humans is a third ethical issue which emerged especially during the initial societal **impact assessment workshops** organized as part of this deliverable work. The ways to tackle these challenges concern both the design of the RANGER technology, the location and installation of the radars, as well as the use of the technology in various maritime surveillance activities.

It should be noted that the ethical and societal investigation of the RANGER project will continue during the whole RANGER project life-span, including the pilots, since new ethical challenges may arise. In addition the values, norms and regulations behind the maritime surveillance and SAR are developing rapidly due to the changing situations both in EUROPE and elsewhere. Follow up of this development is therefore crucial during the RANGER project.

First RANGER Plenary Meeting and technical visit

Project News & Meetings



The first plenary meeting of the RANGER consortium was held in Aix-en-Provence, France, on 9&10 November, 2016.

During the first day of the meeting, the consortium members presented the developments and the progress so far, within each Work Package. The presentations were followed by fruitful discussions between the participants, and further actions were defined.

On the second day, the 8 Work Package leaders presented an overview of the project's progress to date and next steps to the EC Project and Financial Officers who, in turn, gave useful suggestions as well as guidelines regarding financial and managerial aspects of the RANGER project.

Last but not least, the consortium had the opportunity to visit the RX site of OTH Radar, where the equipment of the Radar (servers – antennas – shelter – generator) were presented by DXT. The visit provided useful input regarding the specific needs and requirements for the installation of OTH Radars at project's pilot sites.

RANGER @ the PSCE Conference in Athens, Greece



The RANGER project was presented by the coordinator during the [15th Public Safety Communication Europe Conference](#) organized on 23 & 24 November 2016 in Athens, Greece.

EXUS, delivered a presentation of the RANGER project with the title: Radars for long distance maritime surveillance and SaR operations (RANGER): Serving the need for safer European seas, in a conference session on how to make border surveillance more effective. During the presentation the scope and main project objectives were discussed, while the technical concept of the project was presented. Special focus was given on the specific technological aspects and on the RANGER validation pilots which will take place in France (open sea environment) and in Greece (archipelago) in the course of the project implementation.



Related Conferences & Events



**International Exhibition
of Homeland Security**

Incorporating Global Security Asia

Milipol Asia-Pacific 2017, 4 -6 April 2017, Marina Bay Sands, Singapore

<http://www.milipolasiapacific.com/>



Sea-Air-Space 2017, 3 - 5 April 2017, Washington DC, USA

<http://www.seaairspace.org/>



Adriatic Sea Defence & Aerospace Exhibition & Conference, 26-28 April 2017, Split, Croatia

<http://adriaticseadefense.com/>



IEEE International Radar Conference (RadarCon), 8-12 May 2017, Seattle, USA

<http://www.radarconf17.org/>



International Joint Conference on Neural Networks, 14-19 May 2017, Anchorage, USA

<http://www.ijcnn.org/>



Idet Int'l Exhibition of Defence and Security Technologies, 31 May - 2 June 2017, Brno, Czech Republic

<http://www.bvv.cz/en/idet/>



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