



H2020-700478

RAgars for loNG distance maritime surveillancE and Search and Rescue opeRations

INVENTORY OF COMMUNICATION, DISSEMINATION AND RAISING AWARENESS ACTIVITIES (SECOND YEAR)

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Executive summary

This deliverable provides a comprehensive overview of all communication and dissemination activities performed during the second year of the project within Task 8.1 Awareness Raising Strategies and Task 8.2 Dissemination Activities of Work Package (WP) 8 Dissemination & Exploitation Preparation.

First, the present deliverable gives an overview of the established communication channels and means that have been created and used to support the communication, dissemination and awareness raising activities of the project. Then, it provides an inventory of all dissemination and communication activities, namely a list of activities with a brief description of each, which were carried out during the second project period.

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1. Introduction

The communication, dissemination and awareness raising activities of the RANGER project fall within WP8 ‘Dissemination & Exploitation Preparation’, and specifically under Task 8.1 ‘Awareness Raising Strategies’ and Task 8.2 ‘Dissemination Activities’. While WP8 sets out general objectives for the successful engagement of the RANGER project with the stakeholder community in order to increase its visibility and to raise awareness, and for the utilization of appropriate means for the effective and efficient exchange of information among stakeholders for the purposes of the project, Tasks 8.1 and 8.2 set the specific objectives to be met within the planned work, as outlined in the Grant Agreement (GA). The work within Task 8.1 includes the setup and ongoing use of web-based means and mechanisms to support the communication of the project concept and outcomes to multiple audiences. Specifically, it includes the creation and content updating of the project website, the production of printed and online dissemination material and the setup and management of the project’s social media.

The work within Task 8.2 involves the planning and organization of the project’s overall dissemination activities, including the following:

- creation of a detailed communications plan
- creation of a calendar of events and future dissemination opportunities
- monitoring of the delivery of technical papers to conferences and journals
- recording of all partners’ dissemination activities
- establishment of a dissemination procedure and handling of related dissemination requests
- organisation of project dissemination events and other activities.

Deliverable D8.6 ‘Inventory of communication, dissemination and raising awareness activities (second year)’ describes all the dissemination activities performed during the second period of project implementation. It includes a progress overview of all related activities as well as a list of publications and presentations in scientific conferences, lectures and other events organized and reported at the end of this period, all presented in Section 3 of this document. One additional report will follow with D8.7, corresponding to the dissemination activities performed during the third project period.

2. Progress overview

2.1 Web-based platforms

The RANGER web-based platforms include the project website and social media accounts which already facilitate communications with regard to the project objectives, results and planned events and will continue to do so, throughout the project life. A dedicated deliverable D8.3 'RANGER Web-based platforms' was prepared in Month 4 of the project, presenting the status of implementation of the web-based resource and communication platforms developed within Task 8.1 of the project. More specifically, D8.3 provides: a) a brief description of the main functionalities of the RANGER online internal collaboration platform; b) a detailed description of the developed RANGER website, its main features, functionalities and current content; and c) a short description of the RANGER social media accounts created to support the online presence of the project towards the external audience.

2.1.1 Website

The project website (www.ranger-project.eu) is one of the most important communication channels of RANGER in creating awareness and providing continuous updates about the project's progress. The website, already developed in the first months of the project implementation (D8.3), is designed to contain all information regarding the RANGER project, including its scope and objectives, expected impact, significant achievements updates, news, consortium contacts, as well as all project public documents, uploaded in a timely manner, serving the purposes of Task 8.1 related to awareness raising strategies. The website content is updated on a regular basis with the latest project information. RANGER's website **Privacy Policy** is updated according to the General Data Protection Regulation (Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016).

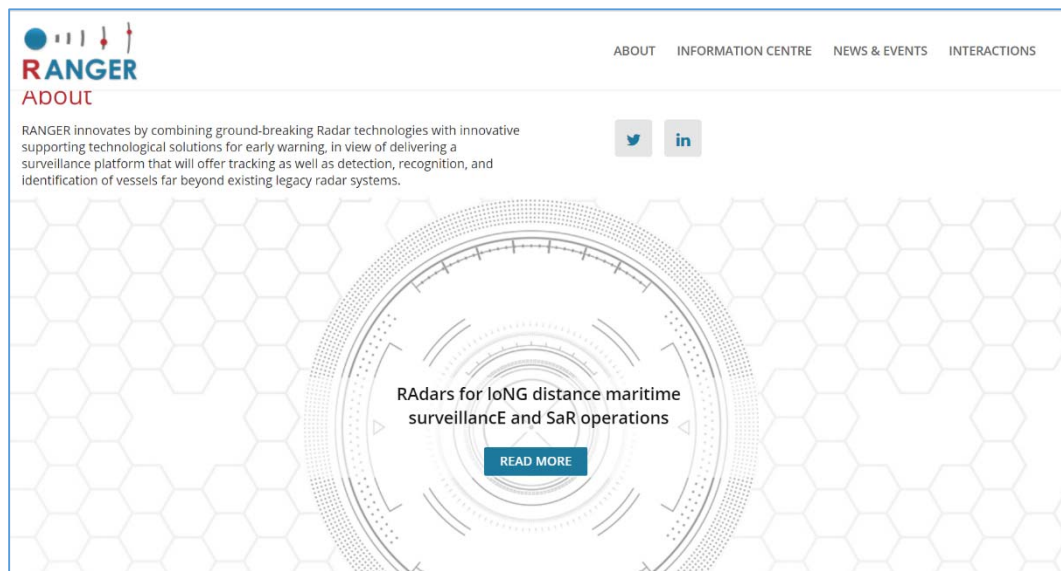


Figure 1: Screenshot of RANGER website (about)

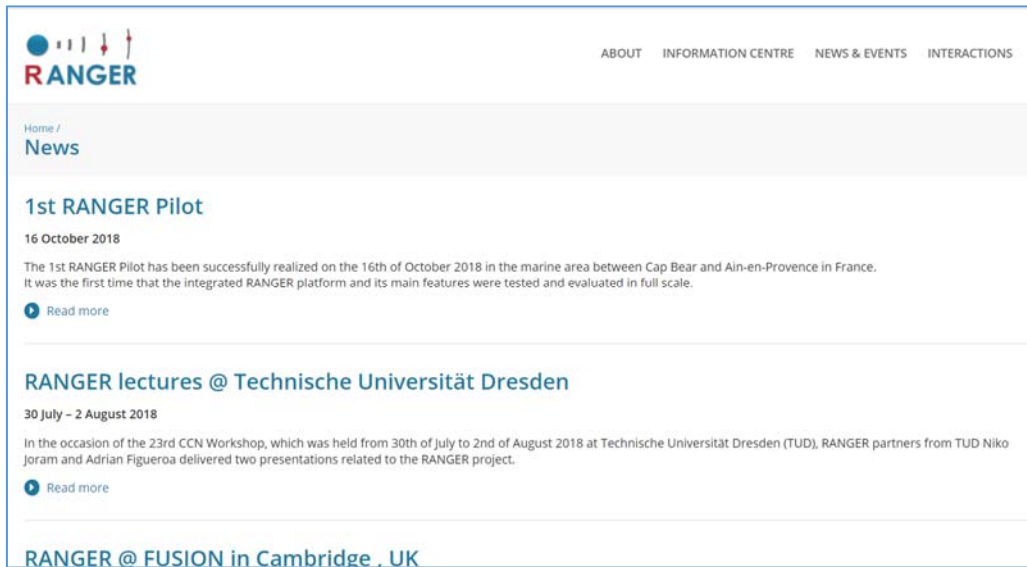


Figure 2: Screenshot of RANGER website (news)

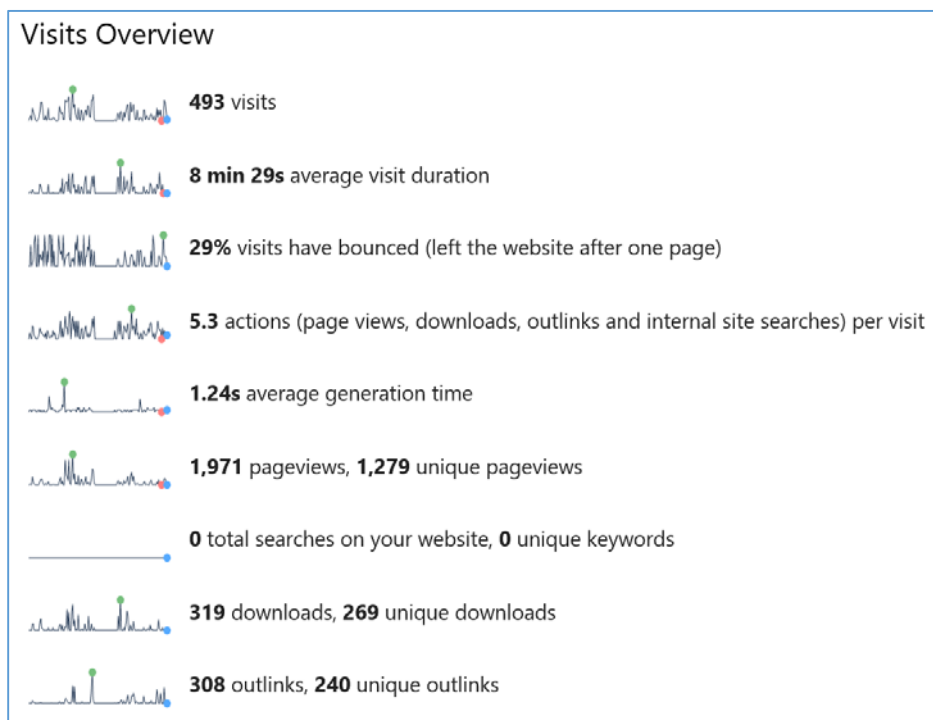


Figure 3: Overview of RANGER website's visits

2.1.2 Social media

As elaborated in D8.3 'RANGER Web-based platforms', social media platforms are considered a powerful tool to gain extra awareness and exposure to wider audiences in a highly efficient and cost-effective way. Twitter can significantly contribute to successfully engage RANGER with the stakeholder community and vice versa, and LinkedIn is the social media with the strongest reputation in the business world and it can prove useful to promote content that will connect the RANGER project with the business industry.

To this end a LinkedIn group H2020Ranger (<https://www.linkedin.com/groups/12014068>) and a Twitter account @H2020Ranger (<https://twitter.com/H2020Ranger>) were created during the first project period. The members of LinkedIn group H2020Ranger are currently 94 and the Twitter followers are 96.

An intensive effort that has begun since the beginning of the project will continue in order to grow the project’s social media network and to establish a frequent rhythm of communication by posting brief project updates, visual material and news within the research field of the project, as well as by establishing interaction within the created network and other users.

It should be noted that all restricted information within RANGER web based platforms are managed according to the EU-Classified Information document guidelines.

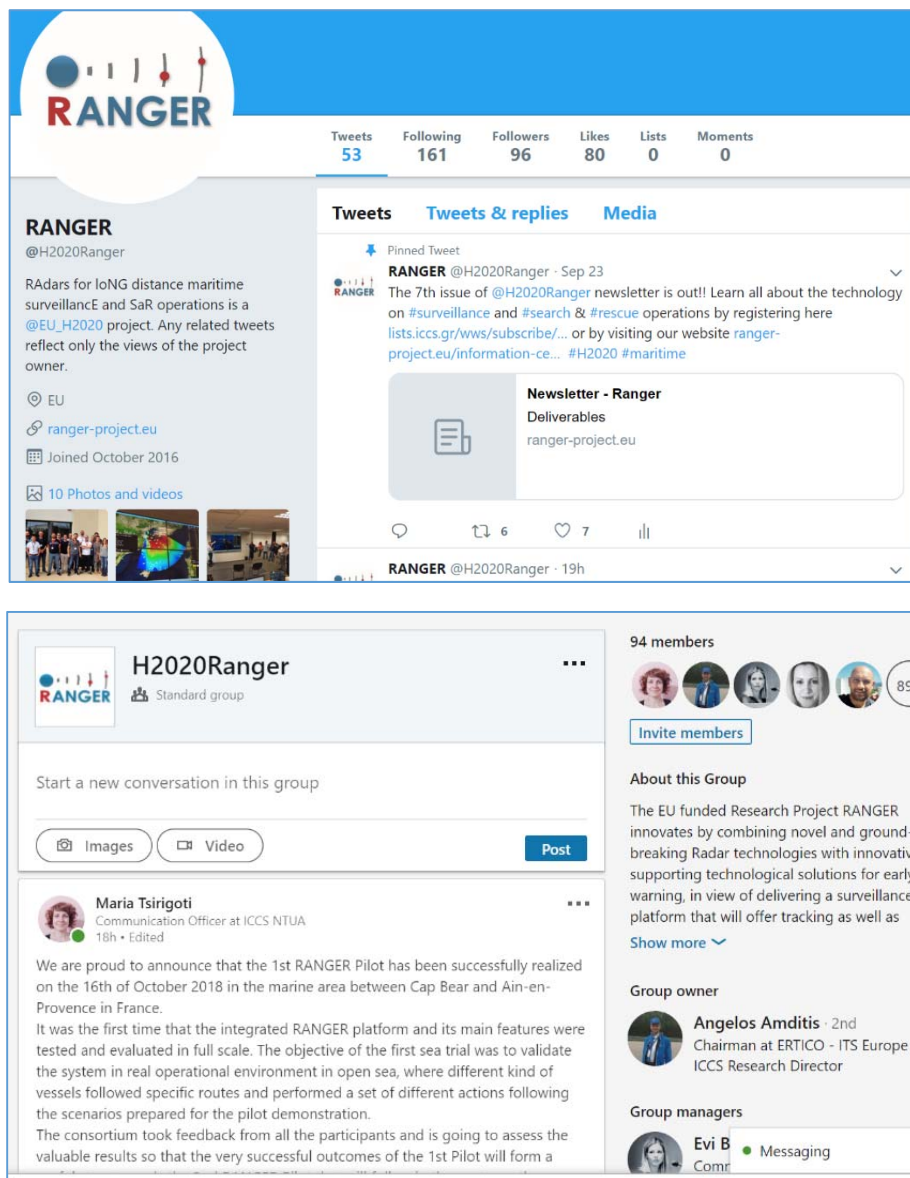


Figure 4: Screenshots of Twitter and LinkedIn pages

2.2. Information kit

A RANGER “information kit” has been created since the beginning of the project and includes a poster, a leaflet, a banner that present the main features of the project and six published newsletter issues all in printable format as it has already been described in D8.1 ‘Communication, Dissemination, and Awareness Raising strategies (first version)’. The material is used for presenting RANGER and promoting available results in a variety of events.

2.2.1. Printable dissemination material

A project leaflet, a poster and a roll-up banner have been created in order to provide a brief overview of the project, improving the project’s visibility at conferences, exhibitions, workshops, meetings and other dissemination events. The material is available, in printable format, on the RANGER [website](#) and on the consortium’s online collaborative space, so that partners can print and distribute material during the planned dissemination events.

The poster and roll-up banner contain the same information, namely the project title, logo and facts, the main features of RANGER, a presentation of the consortium partners with their logos, contact information, website QR code, as well as the EU flag and required acknowledgement text.

In addition to the above, the leaflet includes additional information about the project aim and objectives, the validation pilots that will take place in the frame of the project implementation, and the expected impact of the project. A diagram of the RANGER platform and social media links are also included.

Updated dissemination material including information about the RANGER’s integration platform and RANGER’s pilots is under preparation and expected to be ready by November 2018.



Figure 4: RANGER poster

RANGER
RADars for loNG distance maritime surveillance and Search and Rescue operations

START DATE 1 May 2016
DURATION 42 months
BUDGET €7,992,312.50

PROJECT COORDINATOR:
EXUS Software LTD London, UK,
innovation@exus.co.uk

Main features

- ✓ Novel and ground-breaking Radar technologies (Over-The-Horizon & Photonics Enhanced MIMO radar systems)
- ✓ Innovative data fusion and machine learning algorithms for enhanced Early Warning
- ✓ Long - range detection with high level of accuracy
- ✓ Interoperability with legacy systems
- ✓ Advanced capacity for small vessel detection, recognition, and identification
- ✓ Higher efficiency of Search and Rescue operations
- ✓ Validation and demonstration of RANGER in two different pilot

Ranger Partners

Figure 5: RANGER roll-up banner

CONSORTIUM

- EXUS Software LTD (EXUS)
- Diginext Sari (DXT)
- Institute Of Communication and Computer Systems ICCS
- Technische Universität Dresden (TUD)
- LAUREA- Ammatikorkeakoulu OY (LAU)
- LEONARDO S.p.A. (LDO)
- Telesio Technologies Pirotonikis kai Epikononion EPE (TEL)
- NATO Science and Technology Organisation (NATO)
- Ministry of National Defence (HMDD)
- Ministère de la Transition écologique et solidaire (DMA)

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For more information on the RANGER project, please contact:
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@H2020Ranger H2020Ranger

www.ranger-project.eu

RANGER
RADars for loNG distance maritime surveillance and SaR operations

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement no 755079

Figure 6: RANGER leaflet page 1

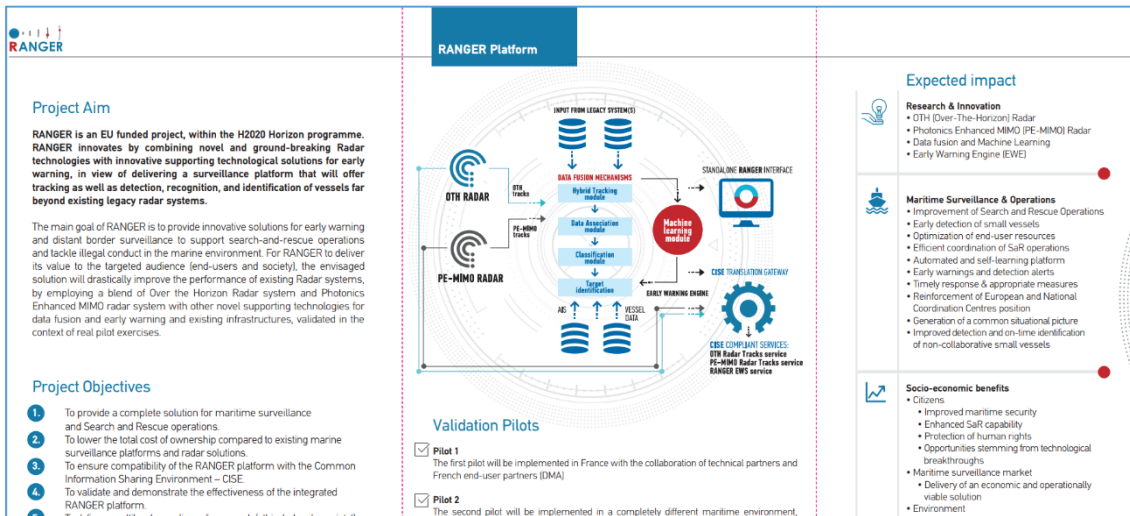


Figure 7: RANGER leaflet page 2

2.2.2 Newsletters

The RANGER newsletter delivers information on project findings and developments and is disseminated to stakeholders through various channels. While the specific tool primarily targets the European research community and others who already interested in the research topics that RANGER addresses, it is also addressed to the general audience, for awareness raising purposes. To date, six newsletter issues have been published and are available on the [project website](#).

RANGER’s newsletter is disseminated through the project’s website and social media.

The first four issues were published during the first year. The **fifth issue** was published in October 2017 and included an article on RANGER solutions and societal responsibilities by LAU and other project-related updates, related conferences and events. The **sixth issue** was published in April 2018 with an article entitled ‘New radar technology aims to save lives in the Mediterranean Sea’ by LAUREA, an interview with HMOD and DMA, project’s news, related conferences and events. The **seventh issue** was published in September 2018 and included articles about the RANGER project’s integration tests as well as project’s news, related conferences and events.





Figure 8: screenshots of RANGER newsletters

3. Inventory of Activities

3.1 Workshops and other events

During the second year of the project (M12-M24), RANGER consortium participated in a series of events spanning from conferences and workshops to forums and technical meetings. The type of dissemination activity in each one depended both on the project time and the event audience. Below is a list of all events that RANGER participated to present the project during the second year

European Researcher’s Night in Athens, Greece (29 September 2017)

‘The European Researcher's Night', is one of the biggest science and research celebrations held annually in more than 300 towns throughout Europe including many Greek towns. In 2017, it was hosted at the 'Hellenic Cosmos Cultural Centre' in Athens. Simultaneous events were held at the National Technical School of Athens where the RANGER poster was displayed at the European Researchers’ Night EC Initiative. In addition, a number of project leaflet copies were printed and disseminated throughout the event.



Figure 9: Pictures from European Researcher’s Night in Athens, 2017

Naval Domain Intelligence meeting in Livorno, Italy (17-18 October 2017)

Consortium partner NATO – CMRE participated in the Naval Domain Intelligence meeting, focusing on technological innovations to enhance naval domain intelligence and increase beyond line of site capabilities, and attended by European, US and Australian end-users. Consortium partner HMOD also attended the meeting as observers. During the event, both NATO-CMRE and HMOD had the opportunity to network and discuss about the RANGER project with the

meeting attendees. Interest about the RANGER project was expressed by the majority of the attendees.

Fourth Forum Horizon 2020 in Paris, France (2 December 2017)

RANGER-partner Diginext participated at the fourth Forum Horizon 2020, which was held on the 4th of December 2017, in Paris and was organized by the French Ministry of Research. Mr. Olivier Balet, Technical Director of Diginext, talked about RANGER in a discussion around what added value to the Framework Program for Research and Innovation. Other speakers included Mr. Alain Beretz, French Minister of Research, Mr. Jean-David Malo, Head of Unit at DG RTD, and former Commissioner and Head of the World Trade Organization, Mr. Pascal Lamy.



Figure 10: Picture from Fourth Forum Horizon 2020 in Paris, 2017

EU Programmes workshop at the Communication & Electronic Military Signal Officers School in Haidari, Greece (15 May 2018)

On Tuesday 15th of May 2018 during a workshop event, hosted in Communication & Electronic Military Signal Officers School¹ premises an hourly lecture concerning “RANGER” platform was given by Mr. Vasileios Papadopoulos, who is the RANGER consortium partner representing Hellenic Ministry of Defense (HMoD).

Mr. Vasileios Papadopoulos, discoursed on the scope and the innovations that RANGER brings on the light and stressed on the use in critical areas such as crime prevention, Search And Rescue (SAR) operations in the Mediterranean Sea. Although the lecture was a small part of the workshop, the interest of the audience and the number of questions asked, kept the presenter for two hours on the floor.

¹ http://armyold.army.gr/html/GR_Army/sxoles/sdb2/index.html

The audience was composed of postgraduate students of the National and Kapodistrian University of Athens (NKUA)², professors of Panteion³ University of Social and Political Science and NKUA, military personnel involved in border surveillance and administrative personnel of Ministry of Defence, Greece.



Figure 11: During the lecture in EU Programme Workshop in Haidari, 2018

Maritime Search and Rescue 2018 Conference in Helsinki, Finland (22 May 2018)

RANGER participated in Maritime Search and Rescue 2018 event in Helsinki, Finland on the 22th of May 2018 and performed a presentation of the project advances for a distinguished audience of European and North-American professionals of maritime search and rescue. This year, the focus of the Conference was on increasing capabilities for operations in austere environments. Especially in the Arctic, increasing vessel traffic, developments in technology and extreme environmental conditions force many response units to review and increase their SAR capabilities. The aim of the event was also to give the maritime SAR professionals an opportunity to discover innovative systems and capabilities to improve preparations for rescue operations, including but not limited to oil spills and mass rescue. In this later, the presentation of RANGER and the developing radar technologies (OTH and PE-MIMO) along with Early Warnings, Data fusion and Machine Learning, draw the attention of the participants. Other subjects of the presentation, prepared by Mr. Tuomas Tammilehto from Laurea University of Applied Sciences and Mr. Vasileios Papadopoulos from the Hellenic Ministry of Defence, were the changes in SAR operational environment when the capability to detect small vessels from a much wider area increases. For example, the way of performing searches would change when vessels in stress and in need of help could be detected from a much longer distance than today.

The audience was very interested in the outcomes of RANGER and most of the questions raised had to do with the cost-efficiency of the proposed technologies.

² <https://en.uoa.gr/>

³ <http://www.panteion.gr/index.php/el/>

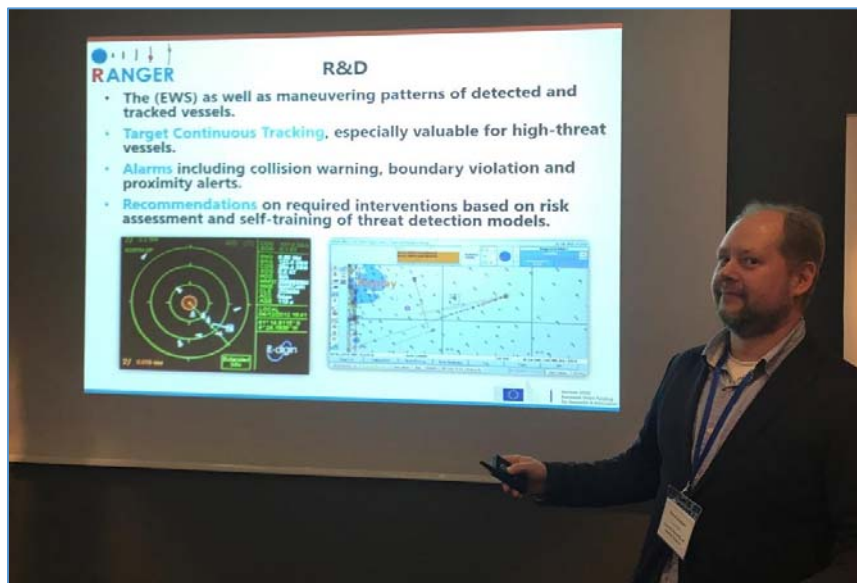


Figure 12: While presenting RANGER in Maritime Search and Rescue in Helsinki, 2018

Posidonia 2018 in Athens, Greece (4-8 July 2018)

The “Posidonia 2018” shipping exhibition took place in Athens from 4 to 8 June 2018, constituting the most important shipping exhibition in the world. The exhibition was held at Athens Metropolitan Expo with the participation of more than 1.900 companies from 92 countries. New ideas, services and innovative products were presented in the exhibition and HMoD demonstrated its technological achievements at the stand of the Hellenic Navy with the public turnout exceeding 1.000 people.

The visitors of the exhibition had the opportunity to be briefed by Hellenic Ministry of Defense (HMoD) personnel of proper expertise on the European programmes managed by the Directorate for the Management of European and Development Programmes and materialised by the most capable members of the General Staffs. Visitors were briefed in detail, on the research programme “RANGER”.

Mr. Vasileios Papadopoulos presented at the stand of the Hellenic Navy the Technology innovation, the capabilities of the RANGER platform but also the expected impact on Maritime Surveillance Operations, human trafficking, smuggling, merchandize, irregular migration prevention and SAR operations.



Figure 13: Posidonia 2018

FRONTEX Workshop on EU funded security projects

A general overview of the RANGER project was presented in the annual FRONTEX Workshop on EU funded security projects by the project's coordinator Mr. Dimitris Katsaros on the 14th June, 2018 on Warsaw, Poland. The aim of this workshop dedicated to the border security EU funded projects was not only to present to the targeted audience the RANGER project, but also to discuss with border guard community and receive their valuable feedback.

3.2 Scientific conferences and journals

Conference attendance and presentations has been identified as a key mechanism for the RANGER consortium to interact with the scientific and industrial community. Specifically for technical conferences, a minimum of four papers per year is foreseen. RANGER partners will also pursue publishing contributed and invited papers in top referred scientific journals. A minimum of one publication per year is foreseen.

3.2.1 Scientific conferences

AIAA SPACE and Astronautics Forum and Exposition

A paper under the title '*Deep Convolutional Neural Networks for Modeling Patterns of Spaceborne Interferometric SAR Systems Signals*' was presented by RANGER partner TELESTO at the AIAA SPACE and Astronautics Forum AND Exposition, on 12–14 September 2017 in Orlando, Florida.

CSICS 2017

A paper entitled "*Fully Differential High Input Power Handling Ultra-Wideband Low Noise Amplifier for MIMO Radar Application*" was accepted and was presented by RANGER partner TUD at the 2017 IEEE Compound Semiconductor IC Symposium, on 22–25 October 2017, in Miami, USA.

IPSN 2018

An introductory RANGER paper entitled "*RANGER: Radars and Early Warning Technologies for Long Distance Maritime Surveillance*" has been submitted for review at the 17th International Conference on Information Processing in Sensor Networks (IPSN 2018), but unfortunately it was not accepted.

21st International Conference on Information Fusion (FUSION)

Two papers entitled "*Belief Propagation Based AIS/Radar Data Fusion for Multi-Target Tracking*" and "*Online Estimation of Unknown Parameters in Multisensor-Multitarget Tracking: a Belief Propagation Approach*" were presented by RANGER partner NATO–CMRE at the 21st International Conference on Information Fusion (FUSION), on 10–13 July 2018 in Cambridge, UK.

3.2.2 Scientific journals

IET Radar, Sonar & Navigation journal

A paper entitled "*FMCW MIMO Radar with Iterative Adaptive Beamforming*" by RANGER partner TUD was accepted for publication in the IET Radar, Sonar & Navigation journal. The paper is available on the [website](#).

3.2.3. Lectures

The RANGER academic beneficiaries disseminate the project technology developed and its application in universities. These actions are envisaged to increase the knowledge and competitive edge of European students. At least 1 lecture per academic partner is foreseen.

RANGER lectures delivered by TUD

On 15th March and 29th September, 2017 two RANGER lectures were delivered by the TUD partners as part of a series of seminars that are organized each semester for the graduate students by the Faculty of Electrical Engineering and Informatics. The main focus of these seminars was the “circuit and system design” and they were attended by approximately 50 attendees. Both RANGER seminar presentations were performed by Mr. Adrian Figueroa and are entitled ‘Maritime MIMO Radar System Design Considerations’ and ‘RANGER Status Update Radar Digital Backend’. The presentations are available on [RANGER website](#).

RANGER lectures delivered by LAU

Criminologist and project manager of the RANGER-project, Mr. Tuomas Tammilehto, lectured on enhancing security and crime prevention capabilities on the Mediterranean Sea at the Leppävaara Campus of Laurea University of Applied Sciences on Thursday, 15th of February and again on the 13th of June, 2018.



Figure 14: Presenting Ranger during the lectures organized by LAU, 2018

RANGER lectures delivered by TUD

In the occasion of the 23rd CCN Workshop, which was held from 30th of July to 2nd of August 2018 at Technische Universität Dresden (TUD), RANGER partners from TUD Mr. Niko Joram and Mr. Adrian Figueroa delivered two presentations related to the RANGER project. About 50 graduate and postgraduate students from the Faculty of Electrical Engineering and Information Technology had the opportunity to attend the seminars, which were all related to circuits and systems. Mr. Niko Joram presented the ‘RANGER Antenna Design’ and Mr. Adrian Figueroa’s presentation was under the title ‘MIMO Radar Status Project RANGER’. The presentations are available on [RANGER website](#).

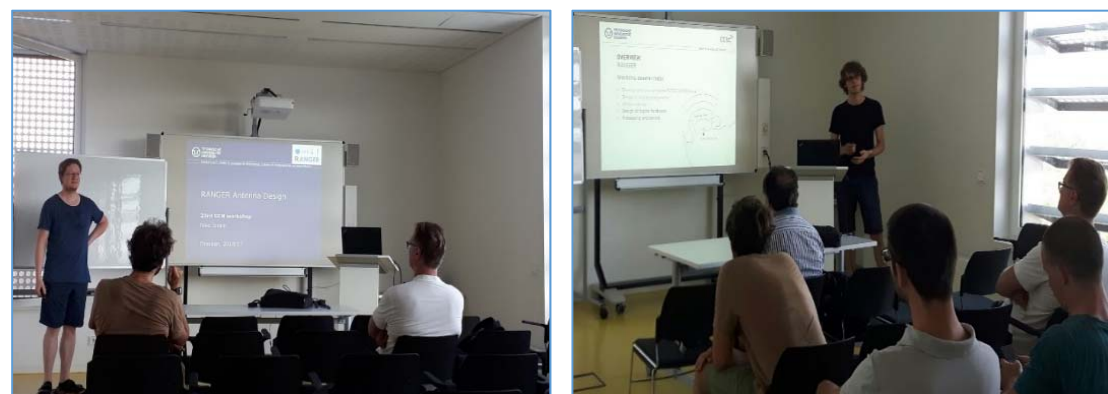


Figure 15: TUD partners presenting RANGER in the lectures, 2018

4. Future Planning

Future planning includes, beside others:

- RANGER participation in 2018-2019 conferences and other events. A relevant list is presented in deliverable D8.2 Communication, Dissemination and Awareness Raising Strategies (final version)
- Submissions of scientific/technical papers to conferences and journals. A relevant list is presented in deliverable D8.2 Communication, Dissemination and Awareness Raising Strategies (final version)
- Organization of RANGER lectures by the academic beneficiaries of RANGER project
- Organization of common activities with relevant projects such as MARISA ([Maritime Integrated Surveillance Awareness](#)) and CAMELOT ([C2 Advanced Multi-domain Environment and Live Observation Technologies](#)) in order to exchange knowledge
- Update project's dissemination material

5. Conclusion

During the second year of the project implementation the consortium conducted a big effort to effectively and widely communicate the project's outcome.

The dissemination and communication activities are of major importance for the RANGER project and therefore a significant number was planned for the second year of the project implementation.

This deliverable provides an overview of the communication, dissemination and awareness raising activities carried out over the second reporting period of the project. These activities are aligned with the communication, dissemination and awareness raising strategies that were established with D8.1, in Month 6 of the project implementation and D8.2 Deliverable 'Communication, Dissemination and and Awareness Raising Strategies (final version) which is under preparation.

A set of tools and mechanisms were put in place in an efficient and timely manner and a number of activities were carried out to date. Although it is needed to increase intensity of effort with regards to specific activities (i.e. social media networking, participation in conferences and exhibitions, peer-reviewed publications), in an overall view, the work that has been performed provides a solid foundation, as we move forward to the third project period.

Annex A - List of Acronyms

Acronym	Meaning
CSICS	Compound Semiconductor Integrated Circuit Symposium
D	Deliverable
DMA	MINISTERE DE L'ECOLOGIE, DU DEVELOPPEMENT DURABLE ET DE L'ENERGIE
GA	Grant Agreement
HMOD	Hellenic Ministry of Defence
ICCS	Institute of Communications and Computer Systems
IPSN	International Conference on Information Processing in Sensor Networks
ICNF	International Conference on Noise and Fluctuations
LAU	LAUREA-AMMATTIKORKEAKOULU OY
NATO-CMRE	NATO Science & Technology Organizations – Centre for Maritime Research & Experimentation
SaR/ SAR	Search and Rescue
TUD	TECHNISCHE UNIVERSITAET DRESDEN
WP	Work Package
AIAA	American Institute of Aeronautics and Astronautics
NKUA	National and Kapodistrian University of Athens
MoD	Ministry of Defence

Annex 2 - Ethical issues (related to the D8.6)

Deliverable		D8.6 RANGER Inventory of Communication, Dissemination and Raising Awareness Activities (second year)	
Activity		Main Responsibility	How are the guidelines applied?
1	<p>Development of RANGER Code of Conduct and follow-up of the current discussion on maritime surveillance</p> <p>The initial RANGER Code of Conduct provided in the Deliverable 3.1 is to be developed and specified more in detail during the RANGER project. Separate versions of the Code of Conduct are needed for RANGER as stand-alone version and for RANGER as part of EUROSUR/CISE.</p>	Project management and ethics committee working.	N/A for D8.6
2	<p>Legal framework follow-up regarding maritime surveillance and its technology</p> <ul style="list-style-type: none"> • Especially since RANGER may change the moral division of labor in maritime surveillance (e.g. in SAR where much more information will be available), it may even be a mean to change to the legislation (or how it will be interpreted) • Follow both EU and local legislation and standards (radiation, environment, NATURA2000 etc.) from the design phase of the radars. Be especially aware of the changing legislation. 	Each WP	N/A for D8.6
3	<p>Proper understanding of maritime surveillance operations & involvement of end-users</p> <ul style="list-style-type: none"> • End-users are to be involved in the project during its <u>whole life span</u>. • End-users should come from various levels of maritime surveillance and from various operations in EU and member states (search and rescue, border control, fisheries control, customs, environment). • Representatives from the third countries from Mediterranean coast site also to be involved in project, as well as various non-government organizations. <p>In addition make it sure that in the research work with the end-users consent forms are always collected and the collection & processing of personal data is avoided.</p>	All the work-packages working with end-users.	N/A for D8.6
4	<p>EUROSUR/CISE collaboration in ethics work</p> <p>Since EUROSUR and CISE probably has already</p>	Project management team	N/A for D8.6

	<p>taken into account the critics of forgetting humanities in favour of security and new businesses, it is crucial that RANGER’s interoperability and compliance with EUROSUR and CISE covers also these ethical issues (not only technology). This includes especially the following issues:</p> <ul style="list-style-type: none"> • Non-refoulement and the use of RANGER radar to detect vessels on high sea and on the water territories of third countries. • Seeking for the solution how we will deliver the long-distance information RANGER provides also to neighbouring third countries so that they can also enhance their SAR activities. • Seeking for the fair moral division of labour in providing assistance in a situation in which we constantly get distress information outside country’s own SAR –regions. 	(with the help of ethics committee)	
5	<p>RANGER business/governance modelling</p> <ul style="list-style-type: none"> - RANGER as stand-alone solution, and especially its user processes and business/business model need to be designed carefully, including the user training and selling/procurement strategy which avoids the biased use of RANGER in border control and SAR. - Productizing a feasibility study and societal impact assessment about RANGER and its use in the proposed area before the implementation as part of the “RANGER package”, including needed activities to eliminate undesirable consequences beforehand. - When selling RANGER as stand-alone solution, follow up of the consequences of the use of RANGER technology is needed to provide as part of the “RANGER service package”. - Selling RANGER only for the use of municipalities or other authorized bodies (>the avoidance of the misuse and dual-use) - Licensing 	WP 8	N/A for D8.6
6	<p>Design of the RANGER technology/Data management and security</p> <ul style="list-style-type: none"> - “Privacy by design” and other requirements (anonymizing etc.) defined in the coming new Data Protection legislation (Act + Directive). - Specific Data security standards are to be followed - User logs as part of the system. - Check and balance approach - Limit the access to the RANGER data only to relevant authorities (access rights, ranger business 	Technical partners	N/A for D8.6

	modelling) - Rules & regulation on the use of data		
7	<p>Design of the RANGER technology/ The modifications of the user interface according the users background/maritime surveillance aspect</p> <ul style="list-style-type: none"> - SAR criterion, human rights and other ethical guidelines should be taken into account when developing the RADAR technology, its processes and business model. - The language and terminology of the user interface should serve each aspect of maritime surveillance (by taking into account the status of the user logged in) 	Ethics committee and technical partners	N/A for D8.6
8	<p>Design of the RANGER technology/Physical design of the radar antennas</p> <p>Hire industrial designer etc. to create beautiful antennas and radars.</p>	WP4	N/A for D8.6
9	<p>Continuous societal impact assessment of RANGER during the project</p> <ul style="list-style-type: none"> • Joint societal impact assessment with all the work packages will be done in the mid and end of the project under the work of ethics committee and documented in D3.2. This concern especially the Mediterranean area where the system is to be piloted. Also expertise from other areas than maritime surveillance are needed in order to figure out the impacts on society (e.g. irregular immigration) • In addition each wp is expected to conduct SIA among their own stakeholders 	Ethics committee and each work-package	N/A for D8.6
10	<p>Communication and dissemination</p> <ul style="list-style-type: none"> - Good PR and information with local communities. <p>Make communities understand both the benefits and disadvantages</p> <ul style="list-style-type: none"> - It is necessary in the RANGER dissemination and communication use the terms “irregular” “asylum” and “illegal” in a logical and informative way. 	WP8	All the communication and dissemination activities that have taken place so far are according to the ethical guidelines related to Communication and Dissemination as described here.
11	<p>Guidelines for the installation and use of the system</p> <ul style="list-style-type: none"> - Rules & regulation on the use of data. Training as part of the RADAR implementation on necessary also from this point of view. - Consider environmental studies when 	WP7 + trials	N/A for D8.6

	<p>installing the antenna, and be in contact with archaeological experts before installing the system. Have agreements from local/national authorities to install and use HF waves</p> <ul style="list-style-type: none"> - The installation of the radars in a places which are already occupied for same kind of activities (e.g. military bases) - Choose the right location for the radar that doesn't cause problems to the nature, archaeological sites, tourism. To mitigate human exposure in radiation, the OTH radars can be located in unpopulated areas. Further minimize the power levels by improving the directivity of the radar. - Safety instructions are also needed for installing radars and doing maintenance work. 		
12	<p>Follow-up of the implementation of these guidelines</p> <p>Work Packages (WPs) and their deliverables (in which an ethical and societal compliance check is to be added as an annex of each deliverable).</p>	Each WP	N/A D8.6