



**An Enhanced Common Information Sharing Environment for Border
Command, Control and Coordination Systems**

Grant Agreement Number: 833881

**D.7.1 Communication and Dissemination
Strategy and Plan**

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Author(s):	Dr. Souzanna Sofou	SATWAYS
	Dr. Antonis Kostaridis	SATWAYS
Contributor(s):	David Merino Delgado	GMV
	Pantelis Kanellopoulos	ICCS
	Dimitris Katsaros	EXUS
	Hugo José Pinto	INOVAWORKS
	Gianandrea Mannarini	CMCC
	Tuomas Tammilehto	LAUREA
	Alkis Astyakopoulos	KEMEA
	Giovanni Barone	ENGINEERING
	Gal Levy	MOPS-INP
	Silviya Diyanova - Georgieva	EAMA
	Zdravko Paladin	MSD
	Peer Reviewer(s):	Lazaros Karagiannidis
Lieutenant Iordanis Naziris		MMAIP
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Executive Summary

The present document outlines the methodology and the individual steps followed for the development of the Dissemination and Communication Strategy and Plan of the ANDROMEDA Horizon2020 project.

The strategy analysis begins with the definition of SMART communication objectives, followed by a Stakeholder Analysis that aims in defining the ways in which the interests of the stakeholders can be addressed. Next, the key messages are defined for each target group, followed by a presentation of the brand identity. A thorough list of suggested Dissemination and Communication Actions is presented, and validation measures for results acceptance are introduced. Furthermore, the Grant Agreement and Consortium Agreement Dissemination and Communication Rules are presented.

Based on the Strategy presented, the Dissemination and Communication plan and map are developed. The individual dissemination and communication plans for the ANDROMEDA Results are based on an Innovation Management Roadmap created for each, including the Result Definition, a SWOT analysis, the definition of target groups and the ways in which the latter can benefit from each Result. The Document also presents the communication material that has been prepared in line with the branding strategy. In addition, the social media pages are presented together with the corresponding analytics.

The validation measures for the acceptance of ANDROMEDA Results will be used for monitoring the progress towards the agreed goals, and if necessary, the consortium will update the Dissemination and Communication Plan. Additional resources will constantly be utilised in line with the strategy developed.

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1. Introduction

1.1 Purpose of the document

The present document outlines the methodology and the individual steps followed for the development of the Dissemination and Communication Strategy and Plan of the ANDROMEDA Horizon 2020 project.

This Deliverable can be used as both a reference and a working document for all partners, in order to: i) Ensure Dissemination and Communication activities are in line with the Innovation Management Methodology, ii) Ensure Dissemination and Communication activities are in line with the Grant Agreement and Consortium Agreement Dissemination and Communication Rules, iii) Update their dissemination and communication plan based on the selection processes introduced and commonly agreed, iv) Watch the collective progress with respect to meeting dissemination and communication targets, as presented in the Grant Agreement, and v) Update strategy and plan if needed.

1.2 Reference documents

- [1] ANDROMEDA Grant Agreement No 833881
- [2] ANDROMEDA Consortium Agreement
- [3] Communicating Horizon 2020 projects, Directorate-General for Research and Innovation European Commission, November 2014, [\[link\]](#)
- [4] Horizon2020 Online Manual, Communicating your project, [\[link\]](#)
- [5] European Commission Directorate-General for Research and Innovation, H2020 Programme, Guidance, Social Media guide for EU funded R&I projects, [\[link\]](#)
- [6] Communicating EU Research and Innovation, guidance for project participants, [\[link\]](#)
- [7] Smartsheet, The Essential Guide to writing SMART Goals, [\[link\]](#)
- [8] Press Release of the Andromeda project published in Greek, [\[link\]](#)
- [9] Press Release of the Andromeda project published in Greek, [\[link\]](#)
- [10] Information on the Andromeda official Font, [\[link\]](#)
- [11] European Commission Directorate for Research & Innovation, H2020 Programme, Guidance Social Media Guide for EU funded R&I projects, version 1.0, April 6th, 2018
- [12] Project Management Body of knowledge Guide, Stakeholder Characterization, [\[link\]](#)
- [13] Stakeholder Mapping, Clore Social Leadership, [\[link\]](#)
- [14] Jeffery, N., Stakeholder Engagement, A Road Map to Meaningful Engagement, Doughty Center Corporate Responsibility, Cranfield University School of Management, July 2009.
- [15] Clayton, M., The ‘Standard Stakeholder Map’, the Influence Agenda, Palgrave Macmillan (2014).
- [16] Stakeholder Analysis based on relevant training provided by the Common Dissemination Booster (Trust-IT) for another project group.
- [17] Re-plan, Innovation Management in H2020 projects, [\[online article\]](#) (2014)]
- [18] Sofou, S., Innovation Management in Horizon 2020 Projects. Proceedings of the 14th International Conference on Nanosciences & Nanotechnologies, Thessaloniki, Greece, July 4th-7th, (2017)
- [19] 2018 Journal Citation Reports released by Thomson Reuters (Thomson Impact Factor 2018)
- [20] Publisher copyright policies & self- archiving, [\[link\]](#)

1.3 Definitions

List of Definitions	
CISE	CISE is the Common Information Sharing Environment for the Maritime Domain. It will integrate existing surveillance systems and networks and provide all the relevant authorities (EU and national authorities responsible for different aspects of surveillance) with concerned access to the information they need for their missions at sea. The CISE will make different systems interoperable so that data and other information can be exchanged easily through the use of modern technologies.
EUROSUR	The European Border Surveillance system (EUROSUR) is a multipurpose system for cooperation between the EU Member States and FRONTEX in order to improve situational awareness and increase reaction capability at external borders. The aim is to prevent cross-border crime and irregular migration and contribute to protecting migrants' lives.

1.4 Structure of the document

The deliverable presents the methodology and the individual steps followed for the development of the Dissemination and Communication Strategy and Plan of the Andromeda Horizon2020 project.

- Chapter 2 presents the individual steps for the Establishment of the Communication and Dissemination Strategy and Plan, in order to ensure that the appropriate project outputs are conveyed to a wide range of stakeholders in an efficient and consistent fashion.
- In Chapter 3, the Grant Agreement and Consortium Agreement Dissemination and Communication Rules are presented together with the internal process for disseminating project Results.
- Chapter 4 presents the current plan for dissemination and communication activities based on the Innovation Management Roadmap of each Result.
- In Chapter 5, the communication material that has been developed is presented.
- Chapter 6 presents the Social Media pages created and the corresponding analytics.
- The main conclusions are given in Chapter 7.

1.5 List of Acronyms

List of Acronyms	
CA	Consortium Agreement
CISE	Common Information Sharing Environment
DoA	Description of Action
EC	European Commission
EUROSUR	European Border Surveillance system
GA	Grant Agreement
IPR	Intellectual Property Rights
TL	Task Leader
WP	Work Package
WPL	Work Package Leader
SMART	Specific, Measurable, Agreed, Realistic, Time based (used for objectives)

2. Dissemination and Communication Strategy

This Chapter presents the individual steps for the Establishment of the Communication and Dissemination Strategy and Plan, that are followed in order to ensure that the appropriate project outputs are conveyed to a wide range of stakeholders in an efficient and consistent fashion. The individual steps are presented below:

- i) Definition of SMART Communication Objectives
- ii) Mapping of the Stakeholders and Target Audiences for each objective
- iii) Definition of the key messages
- iv) Selection of Communication Routes
- v) Selection of Dissemination Routes
- vi) Selection of networking activities
- vii) Determination of additional resources for the implementation of the communication plan
- viii) Re-evaluation of the deadlines and study of the validation results

2.1 Definition of SMART Communication Objectives

The Communication Objectives should be Specific, Measurable, Agreed, Realistic, Time based. A template-worksheet for the accurate definition of the SMART Communication Objectives is provided (see Ref. No 7).

Table 1: Template- Worksheet for defining Communication SMART Objectives [7]

INITIAL GOAL	Write the goal you have in mind Present the ANDROMEDA projects in at least 6 events (scientific conferences, trade fairs, exhibitions) that will take place in 6 different countries, create awareness and engage stakeholders.
S SPECIFIC	What do you want to accomplish? Who needs to be included? When do you want to do this? Why is this a goal? We are targeting at not just informing the stakeholders, but rather at engaging them to the target. The timeframe is until project end. The fulfilment of this goal is essential for project success.
M MEASURABLE	How can you measure progress and know if you've successfully met your goal? List relevant events taking place in the corresponding period and select them based on impact criteria. List stakeholders and group. Measure impact via the validation measures presented in Chapters 2.4 and 2.5.
A	Do you have the skills required to achieve the goal? If not, can you obtain them? What is the motivation for this goal? Is the amount of effort required on par with what the goal will achieve?

ACHIEVABLE	Yes, the consortium is experienced in the area and they are motivated by the need to commercialize project results. The effort required is foreseen in the Grant Agreement.
R	Why am I setting this goal now? Is it aligned with overall objectives?
RELEVANT	Yes, it is aligned with the overall project objectives and the communication metrics in the Grant Agreement.
T	What's the deadline and is it realistic?
TIME-BOUND	The deadline is project end, that is, February 28 th , 2021 and it is realistic due to the number of partners (19) working in the project.
SMART GOAL	Review what you have written, and craft a new goal statement based on what the answers to the questions above have revealed Present the ANDROMEDA projects in at least 6 events (scientific conferences, trade fairs, exhibitions) that will take place in 6 different countries, by February 28 th , 2021 and receive at least as many invitations for project presentation from the stakeholders.

Table 2: ANDROMEDA Communication Main SMART Objectives

No	SMART Objective	Lead Beneficiary	Beneficiaries Involved
1	Present the ANDROMEDA projects in at least 6 events (scientific conferences, trade fairs, exhibitions) that will take place in 6 different countries, by February 28 th , 2021 and receive at least as many invitations for project presentation from the stakeholders.	SATWAYS-ICCS-KEMEA	All
2	Present and promote the ANDROMEDA results via 2 workshops, the first one in M12 (August, early September 2020) and the second at the end of the project in M18 (Feb. 2021), to address end users, practitioners and stakeholders. The main goal of these workshops will be to present and disseminate up-to-date information through presentations and live system demonstrations, with as much as possible real-time data but also synthetic data. The validation measure will be the number of professionals requesting further information and connecting through the social media accounts of ANDROMEDA (20% increase in the total connections from M12 (after first workshop) to Month 18.	T7.2 ICCS Leader:	the first workshop will be organized by GMV in Spain in M12 and the second by EXUS in Greece in M18
3	Present ANDROMEDA's objectives through at least two of each partners' communication channels (web sites, social media accounts, leaflets, magazines, relevant EU	All beneficiaries	All beneficiaries

No	SMART Objective	Lead Beneficiary	Beneficiaries Involved
	funded projects where each partner is participating), from M4 to to M18, in order to receive 30 requests for further information about the project by professionals in the field (measured by emails, booth visitors, invitations for presentations, connections in social media accounts).		

2.2 Mapping of the Stakeholders and Target Audiences

Several definitions can be found in the literature for the entities characterized as stakeholders. According to the Project Management Body of knowledge Guide [12], a stakeholder is defined as an individual, group or Organisation that might affect, be affected by or perceive itself as affected by a decision, activity or outcome of a project. A stakeholder can be internal or external to an Organisation, and can exert influence on the project, project deliverables or the team in order to satisfy their own agenda.

It is important to include also ‘silent’ stakeholders that may have a hidden wealth of expertise [13], as well as future stakeholders that may be play a significant role in the outcome of the project.

2.2.1 Identification and Clustering of Entities with a direct interest in the project

In this section, all entities with direct interest in the project are identified (for example policy makers, Land and Maritime surveillance authorities, User Communities). All entities identified as having a direct interest in the project are then clustered in homogeneous groups.

The stakeholders and Target Audiences of ANDROMEDA are listed in the Table below.

Table 3: Stakeholders and Target Audiences of the ANDROMEDA project

Communities	Industries	End Users	Facilitators
Scientific and Technological Community	Defence Industry	National Border and Coast Guards	National public authorities
End Users Community	Software Industry	Frontex	EU Institutions
EMSA CISE Stakeholder Community	Scientific and Defense Industry	Commercial Customers	Standardization Bodies (e.g. ETSI ISG CISE)
		Members of the Consortium and connected local organisations, for example: Border Police General Directorate, Ministry of Interior of the Republic of Bulgaria, Bulgarian Navy, Bulgarian Defense Institute "Professor Tsvetan Lazarov"	Related H2020s project such as H2020 RANGER, ROBORDER
			Research institutions

As a first approach, it is assumed that all 4 categories are of equal importance and can exert equal influence on the project.



Figure 1: Initial Stakeholder Mapping of the ANDROMEDA Project

Then, according to their specific interest, the entities are prioritized.

In more detail [12],

- Primary stakeholders stand to be directly affected by the project, decisions or actions of the project
- Secondary stakeholders are indirectly affected by the project or decision or actions of the project

The stakeholders are then analysed on the interest versus influence grid, which defines the strengths of these stakeholders in supporting the uptake of the research output, versus the interest in facilitating the uptake.

The results of this analysis are reported in the grid depicted below that illustrates the classification of each stakeholder group. This visualisation allows for a better understanding and planning of dissemination and communication activities, and a more elaborated decision regarding where to invest for maximising the engagement and dissemination activities.

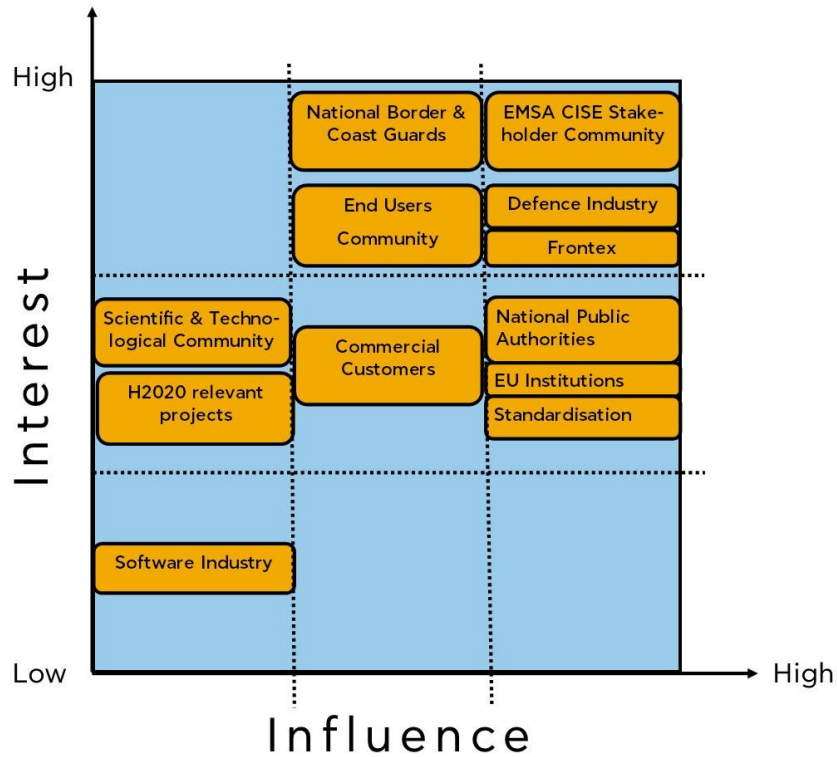


Figure 2: Stakeholder mapping for the ANDROMEDA project; Interest vs Influence grid

After the stakeholders are classified, the proper communication actions for each group can be based on the ‘Standard Stakeholder Map’ [15].

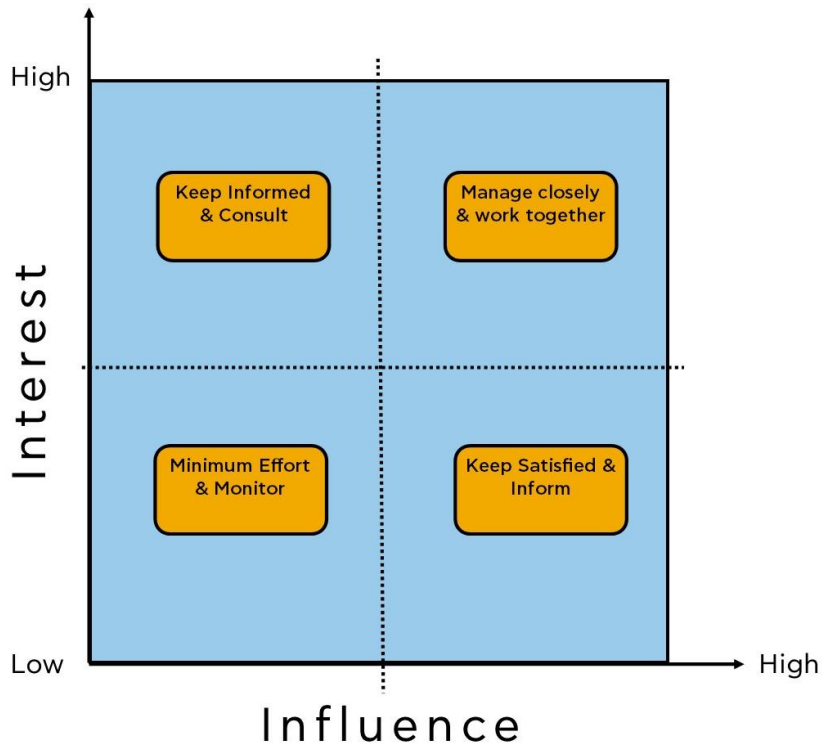


Figure 3: Standard Stakeholder Map [15]

For example, the ANDROMEDA consortium should work together with Frontex, the defence industry and EMSA in order to pursue stakeholder engagement.

2.2.2 Assessment of the Manners used to Address the Stakeholders’ interests

This section discusses the ways in which the interest of those stakeholders should be addressed. The different level of engagement is also presented, and communication channels are chosen for each cluster. In addition, the geographical dimension of the stakeholders’ communication plan should be taken under consideration before proceeding with the dissemination and communication plan. As depicted in the following Figure, the key stakeholders of ANDROMEDA are mainly situated in Europe, which is where most of communication activities should take place. Dissemination activities can take place both in Europe and internationally, with a primary focus in European scientific conferences.

The list of stakeholders previously identified is mapped on the charts below to visually present the needs of each stakeholder in terms of geographical dissemination.

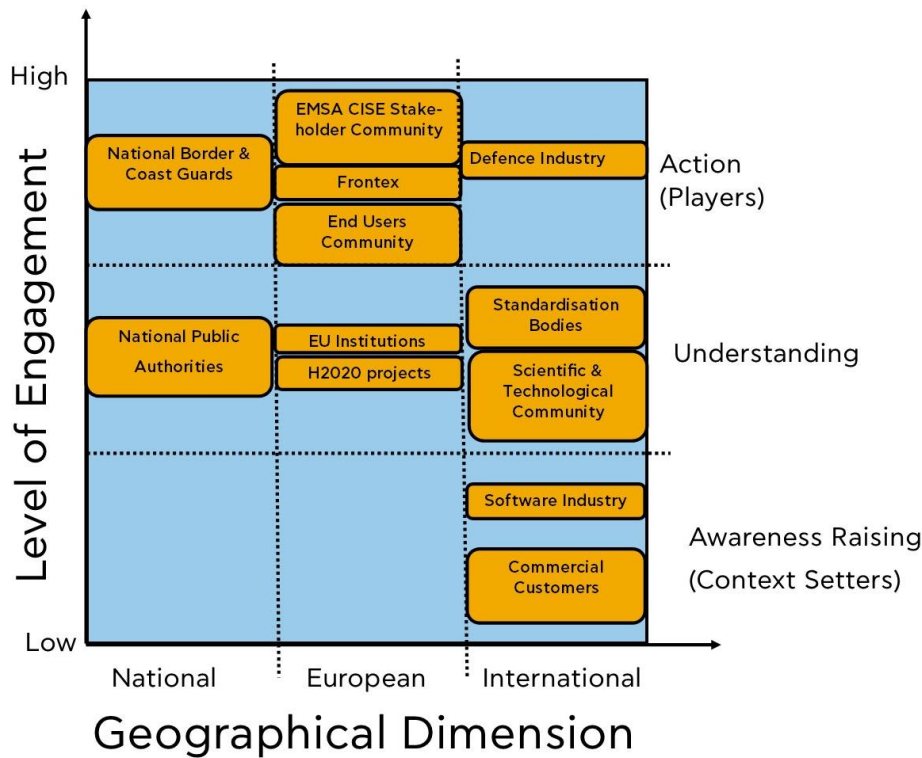


Figure 4: Stakeholder mapping for the ANDROMEDA project; Geographical Dimension [16]

ANDROMEDA communication activities in exhibitions and trade shows should target the National Border & Coast Guards, the end user community and the defence industry. Networking activities, activities organised together with other EU projects, attending EU events and issuing press releases are selected to better communicate ANDROMEDA results among National Public authorities, EU institutions and H2020 projects. The communication material prepared (see relevant chapter) will be used for all these activities. Activities organised together with other projects will also attract the interest of the standardisation bodies, at mainly European level. Disseminating project Results with research articles in scientific journals and conferences will keep the scientific and technological community interested. Finally, the software industry and the commercial customers will be informed of the ANDROMEDA existence in respective trade shows, conferences and workshops.

2.3 Definition of the Key Messages and Brand Identity

2.3.1 Key messages selected for the different target groups

In this section the key messages that have been selected for various target groups are presented.

The moto '*Relevant to the everyday lives of European Citizens*' has been selected for the wider public.

For the technical and scientific community, the moto that has been selected is '*Secure, effective, common situational awareness and information exchange system integrated with CISE*'

For the End Users, namely the National Border and Coast Guards, as well as Frontex, the moto that has been selected is '*Cross sector and cross border collaboration between authorities operating in the Land and Maritime Environments*'.

For the commercial customers, the moto that has been selected is

'A distributed set of Systems & Services interconnected according to the CISE principles that aim to foster:

- *Faster detection of new events*
- *Better informed decision making*
- *Achievement of a shared understanding & undertaking of a situation on each side of the shared border*

For the Facilitators, they key message that has been selected is '*Strengthening European society's resilience to help safeguard life and European values.*'

2.3.2 Brand Identity

The branding strategy was discussed and agreed during the kick off meeting and is followed by all project participants throughout the project.

The branding guidelines were presented during the kick off meeting in Athens on September 2019 and include directions about the use of ANDROMEDA Branding Elements (Logo, Typography, Colours, Imagery).

2.3.2.1.1 ANDROMEDA Logo



Figure 5: ANDROMEDA Logo i) colour version ii) single colour version

Appearance

- The Logo should appear once per layout.
- The logo should appear, depending on the background, with the best possible legibility.
- The logo should not be altered in any way. It should not be animated, the colour should not be changed and one should not rotate, skew or apply effects to the logo. There should be no attempt to create the logo by any participant, or attempt to change the font, alter the size or proportions, and separate the elements.

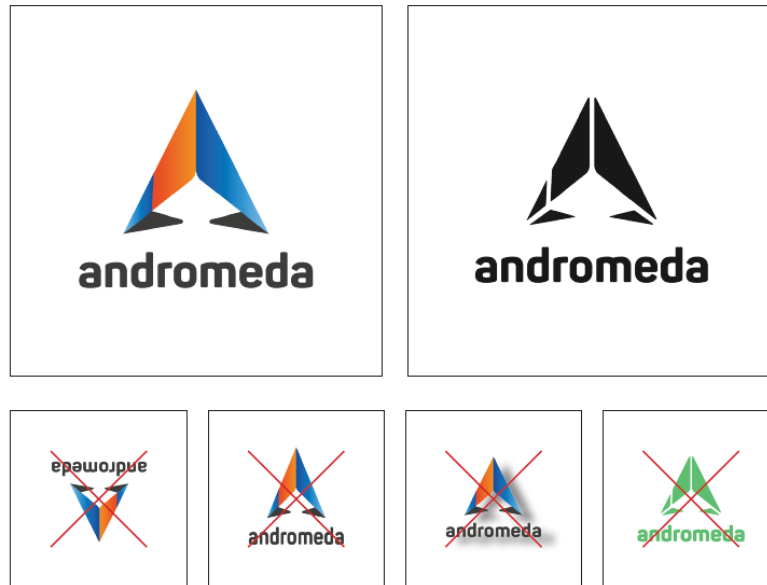


Figure 6: Directions for the use of ANDROMEDA Logo- Appearance

Exclusion zones

- The logo requires an exclusion zone around it in order to maximize its visual impact. The exclusion zone is defined by the two a's from the logo.

Applications

- In case of a single colour use (technical limitations), one of the single colour versions presented in the following Figure should be used.

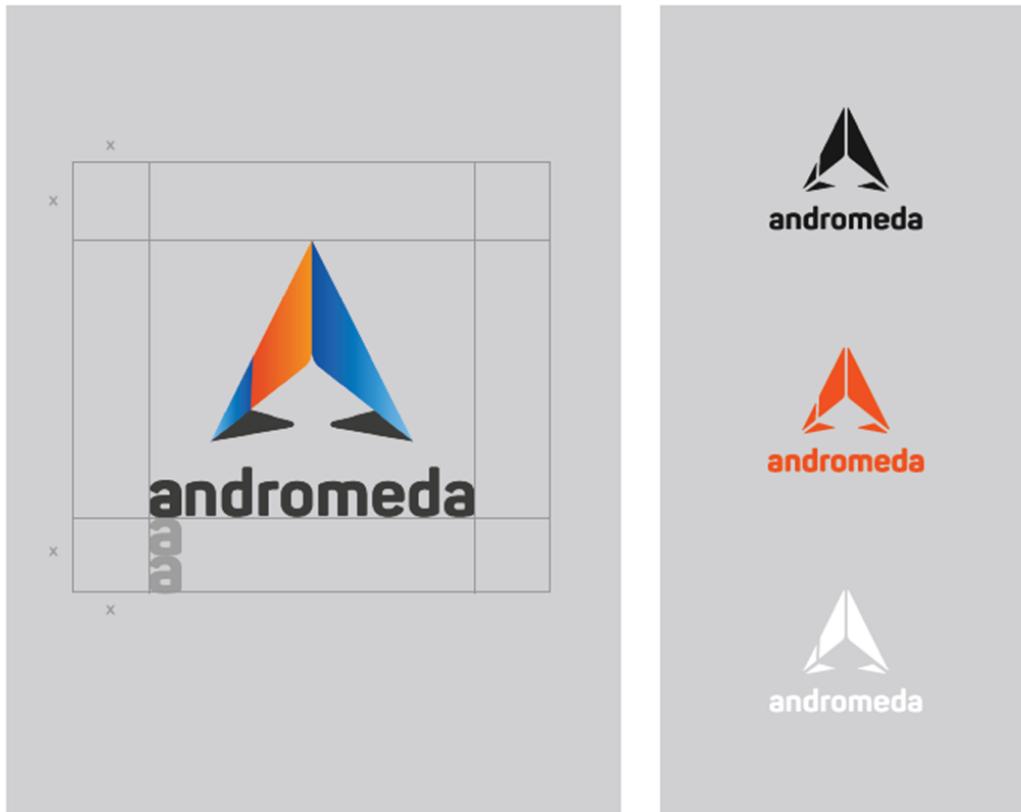


Figure 7: Directions for the use of ANDROMEDA Logo - Exclusion zones and applications

2.3.2.1.2 ANDROMEDA Typography

Official Font

The official ANDROMEDA Font is CF Asty Std. Typography is a key feature of the ANDROMEDA identity, and, when used correctly, it allows the ‘brand’ to communicate in a simple, yet effective way.

Styles

For all medias, the following styles should be used to keep a clear contrast between headlines and body copy.

CF Asty Std Bold

CF Asty Std Book

CF Asty Std Light



Figure 8: Illustration of the official fonts of the ANDROMEDA project

2.3.2.1.3 ANDROMEDA Colours

Colour Overview and definition

ANDROMEDA primary colours break into the gradients and the solids, and together they reflect the ANDROMEDA brand identity. Each colour is defined in Pantone and CMYK for use in print medias. RGB and Hex are provided for use in digital medias.

Gradients

The gradients that are used are the core of ANDROMEDA brand identity. The colours consist of a dark blue to a light blue and a dark orange to a light orange/yellow.

Solid Colours

The solid colours are used whenever the goal is to make the logotype simpler, with plain solid colours in order to make it appear less busy.

Primary colors

Gradients



Pantone: 293 C
 CMYK: 100 69 0 4
 RGB: 28 82 158
 Hex: #003da5

Pantone: 291 C
 CMYK: 38 4 0 0
 RGB: 155 203 235
 Hex: #9bcbeb



Pantone: 021 C
 CMYK: 0 65 100 0
 RGB: 254 80 0
 Hex: #fe5000

Pantone: 130 C
 CMYK: 0 32 100 0
 RGB: 242 169 0
 Hex: #f2a900

Solid colors



Figure 9: Colours used in ANDROMEDA

Symbolism

The blue colour symbolises the colour of the sea, as ANDROMEDA aims to unlock the full capabilities of CISE by enhancing the Maritime CISE model. The orange colour symbolises the colour of the earth, as ANDROMEDA will also extend the CISE to the Land Surveillance Information Exchange.

2.3.2.1.4 ANDROMEDA Images

Images presented in this chapter have been purchased and can be used in ANDROMEDA presentations.

Gradient

When using images and text combined, one may need to emphasize the captions meaning with the presence of the image, without it being very overpowering. By use of a gradient, we can tone down the image and make the text more noticeable and easier to read.

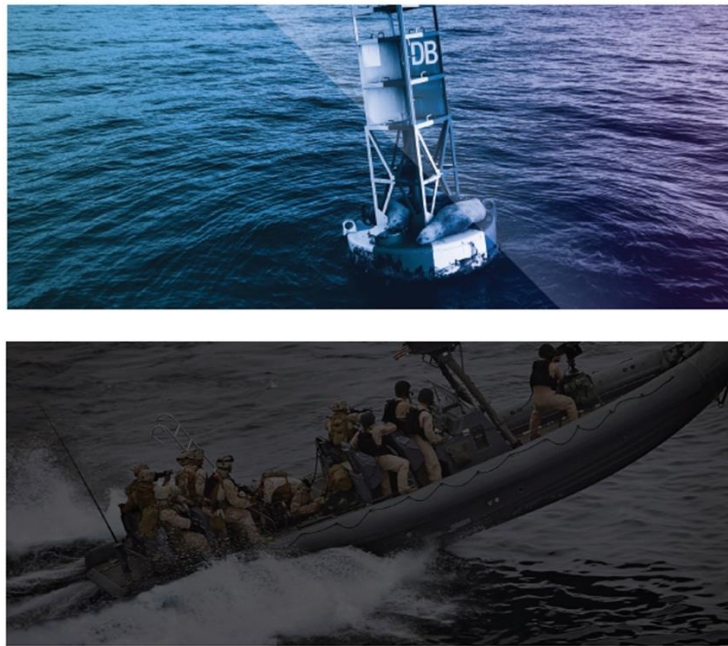


Figure 10: Illustration of images used in ANDROMEDA (gradient use)



Figure 11: Illustration of images used in ANDROMEDA (clean images)

2.4 Selection of Communication Routes

A template was prepared and circulated to the consortium in order to assist partners in the selection of communication routes such as Trade Fairs/Exhibitions, Workshops and magazines.

During the second day of the Projects' Kick-Off meeting, special emphasis has been given on the reasoning that needs to be provided by every beneficiary for the events selection, as well as for the definition of validation measures for measuring public awareness and results acceptance. The template includes various events and magazines, together with the reasons for their selection and validation measures.

Table 4: Initial Selection of Communication Routes

Selected Communication Routes	
Trade Fairs / Exhibitions	Reasons for exhibition / trade fair selection
	Validation / measures for measuring public awareness and results acceptance
SMM, The leading international maritime trade fair September 8 th -11 th , 2020, Hamburg, Germany	<p>The bi-annual trade fair and its accompanying conferences MS&D offer a meeting place with all the <i>leading stakeholders of the global maritime industry</i>. More than 2,200 exhibitors from all over the world, roughly 50,000 trade visitors, and 90,000 square metres of exhibition space.</p> <p>Discussion with the leading stakeholders of the global maritime industry at the trade fair will validate their interest in ANDROMEDA Results and products. Sponsoring packages enables to: • ensure the desired level of attention for our brand • effectively reach specific target groups • generate high-impact visibility among all visitors, before and during SMM.</p>
FEINDEF International Defence and Exhibition Dates not announced yet, Madrid, Spain	<p>The International Defence and Security Fair, FEINDEF, organized by the two business associations in the sector, TEDAE and AESMIDE, with the support of the Ministry of Defence, is held in Madrid, and is aimed at a professional audience, both from industry and the Armed Forces, Security Corps and related institutions. The fair's exhibition area is 14,000m² and in May 2019 the fair had 150 exhibitors from 11 different countries. An extensive programme of Forums and Conferences is planned in which current defence issues will be addressed. The Employment, Innovation and <i>Women's Forums are the central axis of the programme, and the latter is selected to further strengthen the gender impact of the project.</i></p> <p>Another highlight of FEINDEF will be the presence of European defence-related institutions and 40 confirmed official delegations from 27 countries, demonstrating many opportunities for international collaboration offered by the new European Defence policy framework. The level of interest showed by the delegations for ANDROMEDA will be a validation measure.</p>
Technological solutions for security (TEDAE) Dates not announced yet, Madrid, Spain	<p>Guardia Civil and National Police organize this workshop, held in Madrid, and is aimed at a professional audience, both from industry and Security Corps and related institutions.</p>
IFSEC May 19 th -May 21 st , 2020, London, UK	<p>IFSEC is the International, Europe's largest security exhibition, which welcomes over 27,000 security professionals from more than 110 countries to explore the latest innovations and hear from the best in the industry. <i>Annual event hosted in ExCeL.</i></p> <p>The participants' interest will be measured by introducing QR codes to the leaflets that are used for fast public access to relevant web pages. The number of webpage and booth visits will be a measure of public awareness. Enrolling a well-known invited speaker at the Keynote Arena would also be very beneficial for the product visibility.</p>

<p>Segurex</p> <p>2021 – date not yet announced,</p> <p>Lisbon, Portugal</p>	<p>Segurex is the largest Security, Protection and Defence exhibition/trade fair in Portugal, hosted in Lisbon every two years, and welcoming around 150 exhibitors from leading companies in the sector. In 2019, the event included the 1st International Congress in Integrated Security – Strategies for the 21st century, a B2B networking corner, Innovation Awards and a Demo Space.</p> <p>The event is a unique opportunity to present the project, raise awareness and promote interest from practitioners in the sector to the project results. The number of visits to the booth and expressions of interest will be a measure of public awareness.</p>
<p>EURONAVAL</p> <p>October 20th to 23rd, 2020, Paris, France</p>	<p>The world naval defence exhibition. Meeting of naval technologies for the future. Organized under the joint patronage of the French Ministry of Defense and Secretariat of State for the Sea. EURONAVAL is one of the most important events for naval and maritime security and safety technologies (25000 visitors, 143 official delegations and 500 exhibitors). The event hosts a ‘SEAnnovation’ space dedicated to start-ups and its Trade Vessel.</p> <p>The response of the stakeholders to the presentation of ANDROMEDA will be a measure of results acceptance.</p>
<p>16th Mediterranean Expert Working Group for maritime surveillance and AIS data collection in Mediterranean sea</p> <p>12th December 2019, Rome, Italy</p>	<p>This event/workshop will be organized by EMSA, and main issues on AIS will be presented and discussed such as: MAREΣ network activity and monitoring, Status of AIS at the MAREΣ Member states, Status of AIS at the MAREΣ Participants States and Observers States, Status of the SAFEMED IV and the Black and Caspian Sea projects. Launching the 2nd phase of the pilot project on T-AIS data sharing and AIS data buffering</p> <p>This will be a good opportunity to present the ANDROMEDA project and the response of the interested persons will be a validation measure of presentation and project activities acceptance.</p>
<p>Maritime Search and Rescue 2020</p> <p>May 12th – 14th, 2020, Tallinn, Estonia</p>	<p>The Maritime Search and Rescue 2020 will focus on collaborative opportunities for procurement, research and technology, including communications, command and control and deployment of new/ different platforms to enable faster, safer rescues. With 150 end users from over 25 countries Maritime Search and Rescue 2020 is a must-attend meeting for anyone who wants to network within the Search & Rescue community</p> <p>Potential expressed interest (in an official manner via correspondence) from private and/or government sector could be regarded as a measure of success derived from the activity.</p>
<p>Magazines</p>	<p style="text-align: center;">Type of Communication Material</p> <p style="text-align: center;">Validation / measures for measuring public awareness and results acceptance: Contacts & References, invitations</p>
<p>Safety at Sea</p>	<p>This magazine is selected due to its large audience in the maritime sector. Its topics include recent developments in security, technology & regulation and will be ideal for communicating the project research and standardisation goals to a wider audience from the maritime sector.</p>
<p>Mer&Marine</p>	<p>One of the most popular French websites for maritime information in France since 2005, with more than 500 000 monthly visitors.</p>
<p>Le Marin</p>	<p>French newspaper and website for maritime information since 1946.</p>
<p>European Defence Matters</p>	<p>The consortium will also pursue a publication in the European Defence matters after project closure, the official magazine published by the European Defence Agency. The response of the stakeholders will be the main validation measure.</p>
<p>Forerunner Magazine</p>	<p>Forerunner Magazine aims to present current topics from Laurea University of Applied Sciences. It features articles about interesting RDI projects as well as latest news from the fields of education and regional development in Laurea. Forerunners audience is academia and others interested in EU-projects as well as future professionals in safety and security.</p>

2.5 Selection of Dissemination Routes

The same methodology is followed for the selection of the dissemination routes. The initial selection is provided in the Table below.

Table 5: Initial Selection of Dissemination Routes

Selected Dissemination Routes	
Journals	Reasons for journal selection
	Validation/measures for measuring public awareness and Results acceptance: Citations/References to the peer reviewed work
WMU Journal of Maritime Affairs (JoMA)	The Springer Link WMU Journal of Maritime Affairs (JoMA) is an international peer reviewed journal that covers the subject areas of maritime safety, marine environment protection and shipping operations and gives, in this context, special attention to human factors and the impact of technology. It was chosen in order to publish, besides the research findings, the impact of ANDROMEDA on the safety & quality of life of EU citizens and on the environment protection. (<i>Romeo ungraded journal</i>)
The International Journal of Disaster Risk Reduction (IJDRR)	High Impact Factor (1.968) ¹ . IJDRR stimulates exchange of ideas and knowledge transfer on disaster research, mitigation, adaptation, prevention and risk reduction at all geographical scales: local, national and international. The journal particularly encourages papers that approach <i>risk from a multi-disciplinary perspective</i> . It offers the Gold Open Access Choice. Romeo Green journal ²
Journal of International Maritime Safety, Environmental Affairs and Shipping	Addressing all aspects of international maritime safety, environmental affairs and shipping, the Journal of International Maritime Safety, Environment Affairs and Shipping (SEAS) publishes topics such as Maritime security, Navigation, search and rescue, Marine accident and traffic risk assessment. (<i>Romeo ungraded journal</i>)
Journal of Contingencies and Crisis Management (JCCM)	Impact Factor (1.073) JCCM focuses on the opportunities and threats facing organizations and presents analysis and case studies of crisis prevention, crisis planning, recovery and turnaround management. With <i>contributions from world-wide sources including corporations, governmental agencies, think tanks and influential academics</i> , this publication provides a vital platform for the exchange of strategic and operational experience, information and knowledge. Therefore, a publication in this journal would serve <i>reaching stakeholders from corporations</i> . Romeo Yellow journal
International Journal of Maritime Crime & Security	The new International Journal of Maritime Crime and Security (IJMCS) is the first high-quality multi/interdisciplinary journal devoted to the newly identified field and academic discipline of maritime security and to the study of maritime crime. The Journal will cover various disciplines related to maritime security, including global governance studies, security, criminology and crime science, cyber security, as well as international and national law (Maritime Law, Law of the Sea and National Jurisdictions). IJMCS is an open access journal which means that all content is freely available without charge to the user or his/her institution.
Reliability Engineering and System Safety	Very high Impact Factor (4.139). This journal is published by Elsevier in association with the <i>European Safety and Reliability Association (ESRA)</i> , and the Safety Engineering and Risk Analysis Division. This international journal was chosen because it is devoted to the development and application of methods for the <i>enhancement of the safety and reliability of complex technological systems, like offshore and maritime systems</i> , while the methods for reliability and probabilistic safety assessment are within the journal's main scope. A publication in this journal

¹ [19] 2018 Journal Citation Reports released by Thomson Reuters (Thomson Impact Factor 2018)

² [20] Publisher copyright policies & self- archiving, <http://www.sherpa.ac.uk/romeo/search.php>. Romeo Colour Archiving Policy: *Green*: Can archive pre-print and post-print *Blue*: Can archive post-print, *Yellow*: Can archive pre-print, *White*: Archiving not formally supported

	would also serve to disseminate the project Results to ESRA members, <i>including professional associations, companies, educational & research institutions in 22 countries.</i> Romeo Green journal
Safety Science	High Impact Factor (2.835). This journal was selected due to its multidisciplinary nature. Its contributors and its audience range from social scientists to engineers. The journal covers the physics and engineering of safety; its social, policy and organizational aspects; the assessment, management and communication of risks; the effectiveness of control and management techniques for safety; standardization, legislation, inspection, insurance, costing aspects, human behaviour and safety and the like. Therefore, a publication in this journal would help <i>promote, among others, the standardisation goals of ANDROMEDA.</i> Romeo Green journal
European Journal for Security Research (EJSR)	Published by Springer, EJSR is also a forum for the presentation of EU wide and EU national interdisciplinary research on civil security. It covers the advancement and new technical approaches in organizational and societal contexts, in particular frameworks, platforms and solutions. Allowing open publication, it is chosen as a candidate journal for presenting the overall approach of the project and the impact of ANDROMEDA on the European civil security.
Information Systems	High Impact Factor (2.066). Published by Elsevier, this is one of the major journals on information systems and will broaden the audience of the results of this project to information system specialists world-wide.
TransNav Journal (SCOPUS)	The TransNav, The International Journal on Marine Navigation and Safety of Sea Transportation is addressed to scientists and professionals in order to share their experience, expert knowledge and research results, concerning all aspects of navigation and sea transportation. The Journal is published four times a year and contains original papers contributing to the science of broadly defined navigation: from the highly technical to the descriptive and historical, over land through the sea, air and space, including those presented at the TransNav conferences
Journal of Web Semantics	High Impact Factor (2.429). This journal from Elsevier is one of the two major journals on semantic Web technologies such as ontologies (the other being the Open Access Semantic Web Journal—IF: 3.524).
Conferences (name, place, date)	Reasons for conference selection
	Validation/ measures for measuring public awareness and results acceptance
MS&D The international conference on maritime security and defence September 10th -11th, 2020, Hamburg, Germany	The 7th international conference on maritime security and defence (MS&D) was held in Hamburg during SMM, the world's leading maritime trade fair. The focus of the international conference held on 6 and 7 September 2018 was on <i>current and future challenges to maritime security and defence</i> . Twenty renowned naval, industrial and science experts discussed topics such as how to protect international ocean trading routes, when and how to deploy naval forces on crisis missions, as well as cybersecurity issues. The September 2020 conference will focus on the ways with which the maritime industry can prepare for <i>security issues such as future military and non-military threats or technological developments of manned and unmanned platforms</i> and is therefore ideal for disseminating ANDROMEDA Results. This will be a unique opportunity to disseminate all research Results of the ANDROMEDA project. Citations to conference proceedings and invited presentations.
ESREL 2020 30th ESRC– PSAM 15 , 15th PSAM Conference June 21st -26th, 2020, Venice, Italy	ESREL is the main European safety and security conference, organised under the auspices of the European Safety and Reliability Association (ESRA). For academics and practitioners, all papers are peer-reviewed. The 30th European Safety and Reliability Conference (ESRC) will be jointly organised with the 15th Probabilistic Safety Assessment and Management Conference (PSAM) of the International Association for Probabilistic Safety Assessment and Management (IAPSAM). The event will take place in Venice, Italy. ESREL is conducted annually. Citations to conference proceedings and invited presentations.
EU Strategy for the Baltic Sea Region, Policy Area on	The purpose of the Strategy Forum is to communicate the implementation work of the Strategy and its objectives, to stimulate policy discussions in the region, to promote results and to provide stakeholders of the EUSBSR with networking opportunities. The Annual Forum takes place in one of the 8 EU member states in the Baltic Sea Region and aims to attract key stakeholders and active partners of the implementation of the EUSBSR from local, regional, national & EU level.

Maritime Safety and Security <i>June 2020 Forum, Copenhagen, Denmark</i>	Official part of EU macro-regional policies and offers wide visibility. Among the main objectives are clean & safe shipping, risk prevention and is therefore fully in line with ANDROMEDA objectives.
Safe Day by Safe Cluster, June 2020, Aix-en-Provence, France	SAFE Cluster is a recent created cluster focusing on global security. Its network includes customers and suppliers of security solutions. <i>SAFE Cluster provides services of “networking”, “business” and “growth”, with actions going from a project idea to finding technology partners, financiers and international development.</i>
ARES Conference 2021 and PCSCP Workshop <i>Dates and Place have not been announced yet</i>	The International Conference on Availability, Reliability and Security ARES highlights the various aspects of security – with special focus on the crucial linkage between availability, reliability and security. The International Workshop on Physical and Cyber Security in Critical Port Infrastructures (PCSCP 2019) that will be held this year in conjunction with the 14th ARES in Canterbury, UK has as main topics: Physical & Cyber Threats in Critical (Port) Infrastructures, Assessing Threats and Risks in Critical (Port) Infrastructures, Security Aspects of Cyber-Physical Systems, Concepts and Solutions for Physical & Cyber Situational Awareness. Citations and references to the peer reviewed work will be the measure of Results acceptance.
European Congress on Disaster Management <i>August 27th - 28th 2019, Berlin, Germany</i>	The annual European Congress on Disaster Management is an international conference of experts which keeps the different decision-makers and players in the field of disaster control inform of the latest developments. The Congress promotes an active dialogue among authorities, universities and experts in the area of <i>disaster control and civil protection</i> . Every year, this conference is a meeting place for 500 participants from more than 40 nations.
SPIE defence and Commercial/Signal Processing, Sensor/Information Fusion <i>April 26th – 30th, 2020, California, US</i>	This is as one of the most well-known conferences to present research on sensors, spectral imaging, radar, LIDAR, AI/machine learning etc. Cross references to the peer reviewed work will provide evidence of results acceptance.
Workshop on Information Systems and Applications in Maritime Domain (ISAMD) <i>Dates have not been announced yet.</i>	The workshop will gather researchers as well as representatives of industry and maritime institutions to discuss research results and innovations in the maritime domain related to widely understood information systems and applications. The workshop will be an opportunity to discuss novel data-driven solutions with applications for maritime security, safety and security of maritime navigation and transport, sustainable fisheries and exploitation of ocean resources. Another Conference for disseminating the ANDROMEDA results, addressing topics of interest which are relevant to the ANDROMEDA objectives: e.g. Advanced data fusion and semantic-driven integration of maritime data, Data sharing in maritime domain, Early-warning systems for Maritime Situation Awareness, Decision support systems in the maritime domain etc. Cross references to the peer reviewed work will provide evidence of results acceptance.
European Maritime Day, <i>May 2020, Ireland</i>	The European Maritime Day (EMD) is the annual meeting point for Europe’s maritime community to network, discuss, and forge joint action, in support of an integrated approach to maritime affairs. It is an inspiring, interactive and dynamic event with a strong focus on key European Commission priorities .
European Coast Guard Function Conferences not announced yet	European Coast Guard Functions Forum is a non-binding, voluntary, independent and non-political forum promoting maritime issues of importance and of common interest across borders and sectors, both civil and military. Members include Coast Guards Authorities of 25 EU member states and Schengen Associated Countries as well the European Commission and its Institutions and Agencies with related competencies in Coast Guard Functions.

International Semantic Web Conference (ISWC)	<p>ISWC is a highly ranked conference on ontology design as it is the premier venue for presenting fundamental research, innovative technology, and applications concerning semantics, data, and the Web. Publication in this conference of the advances of ANDROMEDA ontology design and usage will ensure a broad diffusion among the specialists of ontologies. The conference is ranked A CORE.</p>
ACM Intl Conf. on Information and Knowledge Management	<p>CIKM is the ACM International Conference on Information and Knowledge Management. Being one of the major conferences on data management, this will ensure that our propositions are capable of facing other state of the art solutions. Peer reviews from this conference might even improve the elements within the ANDROMEDA data management.</p>
International Joint Conferences on Artificial Intelligence	<p>IJCAI is one of the major artificial intelligence conferences and will provide a wider audience for ANDROMEDA and communicate mainly to major world-wide users and other researchers of this discipline. Moreover, the ANDROMEDA application domain falls within topics of this conference (machine learning, knowledge representation), but also application domains (security and transportation).</p>
<p>The 2020 International Conference on Unmanned Aircraft Systems, Athens, June 9 - 12, 2020</p>	<p>ICUAS '20 presents a unique opportunity to meet, interact and shape the future of unmanned aviation, worldwide. The ANDROMEDA UAV system with object detection and object tracking features tailored to land border surveillance use case will be presented reaching out a wide community of industry and academia.</p>
<p>Conference on Information Technology – IT 2020 18th – 22nd February 2020 Žabljak, Montenegro</p>	<p>Conference shall host lectures and round table discussions about development trends in the field of information and communication technologies, as well as actual problems in this field in Montenegro. In agreement with the Organizing Committee of the Conference, interested institutions are invited to organize presentations of their scientific, research, professional, development and production projects and achievements.</p>
<p>The 8th International Conference on Maritime Transport 25th – 26th June 2020, Barcelona, Spain</p>	<p>Protection of the port environment, safety and security have become key points for the development of modern maritime transport. In addition, the influence of human factor on board the ships has to be strongly considered as a decisive element for safe, secure and clean operations. The MT'20 Conference should be attended by researchers, scientists, academics, professionals, entrepreneurs, and all people involved in shipping and also in maritime training from any country. In its 2020 edition, administrations, institutions and companies will find a forum to meet, to exchange and to discuss their own achievements.</p>
<p>TransNav conference 2020 Gdynia, Poland</p>	<p>International Conference on Marine Navigation and Safety of Sea Transportation. One of the most innovative World conferences on maritime transport research designed to find solutions to challenges in waterborne transport, navigation, and shipping, mobility of people and goods with respect to energy, infrastructure, environment, safety, and security as well as to the economic issues.</p>
<p>TELFOR Conference, October 2020, Belgrade, Serbia</p>	<p>28th Telecommunications Forum</p>
<p>IC3K 2020, November 2-4, Budapest, Hungary</p>	<p>The 12th International Joint Conference on Knowledge Discovery, Knowledge Engineering and Knowledge Management. (IC3K 2020). The purpose of the IC3K is to bring together researchers, engineers and practitioners on the areas of Knowledge Discovery, Knowledge Engineering and Knowledge Management. IC3K is composed of three co-located conferences, each specialized in at least one of the aforementioned main knowledge areas. KDIR: 12th International Conference on Knowledge Discovery and Information Retrieval; KEOD: the 12th International Joint Conference on Knowledge Discovery, Knowledge Engineering and Knowledge Management; KMIS: the 2th</p>

	International Joint Conference on Knowledge Discovery, Knowledge Engineering and Knowledge Management.
The 20th Annual Conference of the ESC, September 2020, Bucharest, Romania	The annual conferences of the European Society of Criminology provide an opportunity for the members to present papers on the results of their research projects as well as learn about the research being done elsewhere in Europe. The conferences are also an occasion where the members can meet each other and discuss on mutual research interests; the meetings have already proved to be an important platform for new pan-European research initiatives. ANROMEDA being much about preventing trafficking and other illegal activities suits well in with the crime prevention themes.

2.6 Selection of Networking Activities

The ANDROMEDA Project has already participated in the Mediterranean Security Event in Crete, the Safe Corfu Conference and the RANGER project 2nd Greek Pilot and Final Workshop, in order to create synergies with other projects. Additionally, it is worth mentioning that many of the ANDROMEDA partners are working together in other similar projects and have it as a priority to communicate the ANDROMEDA project objectives to other projects' representatives. Furthermore, the Ministry of Public Security in Israel (MOPS-INP) participates in security forums (only for security agencies) and ad-hoc forums involving industry and academy representatives. The content discussed in those forums is confidential.

Table 6: Networking Groups

	Networking Groups	Methods used for Networking
Groups	MARES Expert Working Group – EMSA	Attending planned meetings and workshops of the group and communication with EMSA representatives
	Ship and Maritime Safety	Joined group in Linked in and follow posts and activity
	Mediterranean Security Event 2019	Attended conference and linked in group
	H2020 Security Research, Defence R&D projects, Emergency, Intelligence, GEOINT	Joined group in Linked in and follow posts and activity
	CISE Stakeholder Group (CSG)	Via e-mails
Projects	RANGER	Attending RANGER 2 nd Greek Pilot and Final Workshop, 19-20 November 2019.
	COMPASS2020	Attending planned meetings and workshops on project results
	EUCISE2020	Invitations to participate in the ANDROMEDA project meetings, workshops and demonstrations. (EUCISE2020 has ended in March 2019 but still active in conversations).
	OCEAN2020	Follow activities and link through other projects.
	MEDEA	Linkage with Border and Coast Guard Authorities by inviting them to participate in the ANDROMEDA User Community. Co-organization of events and workshops for integrated maritime and land border surveillance.
	FOLDOUT	Linkage with Land Border Authorities, gap analysis and contribution to the definition of the user requirements regarding the exchange of information related to Land Border Operations.

Networking Groups		Methods used for Networking
	MARISA	Linkage with Maritime Border Authorities, collecting best practices for the harmonization of user requirements and lesson learned for the extension of the CISE data model.
	ROBORDER	Invite and/or co-organize workshop
	CISE Transitional Phase Project	Via e-mails
	Project InBulMarS 2	Presentation during meetings
Organizations	EMSA	Participation to the CISE Stakeholder Group (CSG) which is composed of principal and alternate expert representatives designated by the Member States. Other members of the group are the Commission, EMSA, EFCA, Frontex, SatCen, EDA and EEAS. Also, contact will be made through meetings.
	NATO Centre for Maritime Research and Experimentation (CMRE)	Invite to Trials and Workshops
	JRC	Invite Trials and Workshops.

2.7 Determination of Additional Resources for the implementation of the Communication Plan

The consortium has also worked to identify additional resources for the implementation of the communication plan and for reaching the predefined goals. These are listed in the Table below and include events and social media accounts of other groups that can be used to further promote ANDROMEDA. It is noted that the use of social media is not possible for all partners; for the Ministry of Public Security of Israel communications are based on police private cloud, and operational information cannot be shared through social networks.

Table 7: Additional Resources for the Communication Plan

Scientific Community/Industry Group	Websites/Social Media Accounts	Company/Institution Events
PRAXI Network: Technology Transfer & Innovation Support	www.praxinetwork.gr www.facebook.com/PraxiNetwork twitter.com/praxinetwork www.linkedin.com/company/praxinetwork	Brokerage Events, Missions, Conferences, Seminars etc.
"H2020 SECURITY Research" Defence R&D Projects, Emergency, Intelligence, GEOINT	www.linkedin.com/groups/4427002	Online presence
Relevant European Projects	ANDROMEDA posts can be shared via LinkedIn and Twitter Group of EU H2020 Projects such as RANGER project, ROBORDER, CAMELOT (coordinated by ANDROMEDA beneficiary EXUS) etc.	Online presence
University of Montenegro, Maritime Faculty Kotor	http://www.pfkotor.ucg.ac.me/en ; https://www.linkedin.com/school/university-of-montenegro/	Presentations, meetings, conferences, faculty celebrations and anniversaries, Science open days

Scientific Community/Industry Group	Websites/Social Media Accounts	Company/Institution Events
ELMAN (VTMIS, AIS, LRIT)	https://www.linkedin.com/company/elman-s-r-l/	Presentations and meetings
Engineering Informatica Ingegneria	https://www.ingenium-magazine.it/en/ https://www.linkedin.com/company/engineering-ingegneria-informatica-spa/	Posts and press release on specialized magazines
Laurea Master of Security and Risk Management Studies	Not available	Visiting lectures presenting results of ANDROMEDA project.

3. Dissemination and Communication Rules

The following Dissemination and Communication rules are active, based on the signed Grant Agreement and Consortium Agreement.

It is noted that according to paragraph 26.1 of the Grant Agreement,

'Results' means any (tangible or intangible) output of the action such as data, knowledge or information — whatever its form or nature, whether it can be protected or not — that is generated in the action, as well as any rights attached to it, including intellectual property rights.'

3.1 Rules on Non-Disclosure

According to the Consortium Agreement, paragraph 8.4.2.

'A Party shall not include in any dissemination activity another Party's Results or Background without obtaining the owning Party's prior written approval, unless they are already published.'

3.2 Obligation to disseminate Results

According to the Grant Agreement, paragraph 29.1

'Unless it goes against their legitimate interests, each beneficiary must — as soon as possible 'disseminate' its results by disclosing them to the public by appropriate means (other than those resulting from protecting or exploiting the results), including in scientific publications (in any medium).

This does not change the obligation to protect results in Article 27, the confidentiality obligations in Article 36, the security obligations in Article 37 or the obligations to protect personal data in Article 39, all of which still apply.'

It is therefore noted that for the Results that will be protected, the application (for example a patent application) should be filed before any disclosure of any kind to avoid jeopardizing the novelty of the application.

'A beneficiary that intends to disseminate its results must give advance notice to the other beneficiaries of — unless agreed otherwise — at least 45 days, together with sufficient information on the results it will disseminate.'

It is therefore noted that all dissemination actions (including abstracts and posters) should be communicated to the consortium 45 days before publication.

Additional note on Objection, see also chapter 3.5.

'Any other beneficiary may object within — unless agreed otherwise — 30 days of receiving notification, if it can show that its legitimate interests in relation to the results or background would be significantly harmed. In such cases, the dissemination may not take place unless appropriate steps are taken to safeguard these legitimate interests.'

Additional note on non-protection of the Results (see also article 27 of the G.A.)

If a beneficiary intends not to protect its results, it may — under certain conditions (see Article 26.4.1) — need to formally notify the Agency before dissemination takes place'

3.3 Rules on Visibility - Information on EU Funding, Obligation and Right to use the EU Emblem

According to the Grant Agreement, paragraph 29.4:

‘Unless the Agency requests or agrees otherwise or unless it is impossible, any dissemination of results (in any form, including electronic) must:

(a) display the EU emblem and

(b) include the following text:

“This project has received funding from the European Union’s Horizon 2020 research and innovation programme under grant agreement No 833881”.

When displayed together with another logo, the EU emblem must have appropriate prominence’.

According to the Grant Agreement, paragraph 38.1:

‘The beneficiaries must promote the action and its results, by providing targeted information to multiple audiences (including the media and the public) in a strategic and effective manner.

This does not change the dissemination obligations in Article 29, the confidentiality obligations in Article 36 or the security obligations in Article 37, all of which still apply.

Before engaging in a communication activity expected to have a major media impact, the beneficiaries must inform the Agency (see Article 52).’

3.4 Disclaimer excluding Agency Responsibility

According to the Grant Agreement, paragraph 29.5:

‘Any dissemination of results must indicate that it reflects only the author’s view and that the Agency is not responsible for any use that may be made of the information it contains.’

The same rule applies for communication actions.

3.5 Objections

According to the Consortium Agreement, paragraph 8.4.1.2.:

An objection is justified if

(a) the protection of the objecting Party’s Results or Background would be adversely affected

(b) the objecting Party’s legitimate interests in relation to the Results or Background would be significantly harmed.

The objection has to include a precise request for necessary modifications.’

3.6 Resolution

According to the Consortium Agreement, paragraph 8.4.1.3

If an objection has been raised the involved Parties shall discuss how to overcome the justified grounds for the objection on a timely basis (for example by amendment to the planned publication and/or by protecting information before publication) and the objecting Party shall not unreasonably continue the opposition if appropriate measures are taken following the discussion.

The objecting Party can request a publication delay of not more than 90 calendar days from the time it raises such an objection. After 90 calendar days the publication is permitted.'

3.7 Internal Process for Dissemination and Communication

The internal process for dissemination and communication activities is in line with the:

- Relevant rules of the Grant Agreement and the Consortium Agreement
 - Dissemination rules
 - Rules on non-disclosure
 - Rules on visibility
 - Disclaimer
- Security advisory Board role
- Budget constrains

4. Dissemination and Communication Plan

The present Chapter presents the Innovation Management Roadmap [17] created for the ANDROMEDA Results, the Dissemination and Communication Activities Table, including completed and planned activities, as well as the Communication Map of the project.

4.1 Innovation Management Roadmap

Bridging the well-known Valley of Death in the commercialization of EU research results can only be realized with holistic Innovation Management. This includes a combined strategy for IP management, Data management, Dissemination and Communication, as well as Exploitation of Project Results throughout the lifecycle [18].

Therefore, all dissemination and communication activities are selected and implemented as a part of the overall Innovation Management strategy of the project. The main tool used to select Dissemination and Communication Activities in order to reach the stakeholders defined, is named Innovation Management Roadmap and is presented in detail below.

In more detail, the Innovation Management Roadmap includes, for each Result, the relation to the work structure [18] and ownership details (to be finalized in Task 7.3). Additionally, a SWOT analysis is prepared for each Result, which helps i) present the strong points in every dissemination and communication activity and ii) define the target groups that would benefit from each Result. The latter are also listed, together with the reason for which these target group would benefit from the particular Result. Then, dissemination and communication actions are selected to reach each target group. Taking also the stakeholder analysis under consideration, this serves to ensure that the communication & innovation delivery plan will include the stakeholders and policy makers. Budget and priority for the dissemination and communication activities selected are also provided to ensure consistency with the overall plan, metrics and targets.

This paragraph lists the Innovation Management Roadmap created for the main ANDROMEDA Result, and seven more analyses are provided for ANDROMEDA Results to illustrate the manner used for selecting dissemination and communication activities for each Result.

It is highlighted that the definition used for ‘Results’ is the one of the Grant Agreement, paragraph 26.1:

Results’ means any (tangible or intangible) output of the action such as data, knowledge or information — whatever its form or nature, whether it can be protected or not — that is generated in the action, as well as any rights attached to it, including intellectual property rights.

Table 8: ANDROMEDA Innovation Management Roadmap for the distributed set of Systems & Services

RESULTS TABLE		SWOT ANALYSIS		TARGET GROUPS	METHOD FOR REACHING EACH OF THE TARGET GROUPS
No	RESULT NAME/ Short Description	STRENGTHS of each Result	WEAKNESSES of each Result	WHO WILL BENEFIT From each Result	DISSEMINATION/ COMMUNICATION METHOD DATE AND PLACE
1	A distributed set of Systems & Services interconnected according to the CISE principles that aim to foster: i) Faster detection of new events ii) Better informed decision making iii) Achievement of a shared understanding & undertaking of a situation on each side of the shared border	Secure, effective, common situational awareness and information exchange using a system integrated with CISE that functions across both maritime and land regions	Legal and institutional constraints could influence the design and operational use of ANDROMEDA solution	Border Security Companies Maritime and land security / safety / Emergency Authorities, Expert networks, Regulatory Bodies, Researchers	Trade Fair/Exhibition EURONAVAL Name, Date, Place Paris, France, October 20 th to 23 rd , 2020
OWNERSHIP draft	RELATION TO THE WORK STRUCTURE [Relative WP/Task] [current → expected TRL]	OPPORTUNITIES for each Result	THREATS For each Result	HOW WILL THIS GROUP BENEFIT	BUDGET AND PRIORITY
BENEFICIARIES To be finalised in Task7.3	[WP2, WP3, WP4, WP5]	A holistic, cost effective and highly reliable solution that can be built on existing infrastructure and has already been validated in real operation scenario trials	i) Illegal copy of the solution is a threat for every innovation ii) Existing systems whose aim is similar or systems which can be upgraded to support the result	Enhanced Situation Awareness and improved cross border collaboration improves reaction time	Cost (in €) To be finalized depending on the number of partners that will attend Priority: High
SHARES OF OWNERSHIP (%) finalised in T.7.3	The components' TRL range from TRL(5-7) → TRL(7-9)				

Table 9: Innovation Management Roadmap for the INUS Platform/Intelligent UXV Surveillance platform

RESULTS TABLE		SWOT ANALYSIS		TARGET GROUPS	METHOD FOR REACHING EACH TARGET GROUP
No	RESULT NAME/ Short Description	STRENGTHS of each Result	WEAKNESSES of each Result	WHO WILL BENEFIT From each Result	DISSEMINATION/ COMMUNICATION METHOD DATE AND PLACE
2	INUS Platform/Intelligent UXV Surveillance platform for object detection, identification and tracking via UAV and terrestrial image processing	1)Modular platform including lightweight Octacopter/Medium ranger weight (up to 25kg), easy deployable. 2) Real time object detection, identification and tracking in land border surveillance scenarios. 3) On-board image processing & machine learning algorithms	Limitations of flight time and weather conditions for UAVs	Border Police / /Emergency Authorities/ UAV Expert Networks/ Researchers & Scientific Community	Conference: The 2020 International Conference on Unmanned Aircraft Systems, Name, Date, Place Athens, Greece, June 9 th – 12 th , 2020
OWNERSHIP draft	RELATION TO THE WORK STRUCTURE [Relative WP/Task] [current → expected TRL]	OPPORTUNITIES for each Result	THREATS For each Result	HOW WILL THIS GROUP BENEFIT	BUDGET AND PRIORITY
ICCS	WP4	Integration of INUS platform with C2 systems for border surveillance systems.	Industrial products mainly by military market leaders with advanced radar & multi-spectral sensing systems	Better Situation Awareness for targeted missions using UAVs	Budget 600 Euros link Priority: Medium

Table 10: Innovation Management Roadmap for the e-CISE adaptors

RESULTS TABLE		SWOT ANALYSIS		TARGET GROUPS	METHOD FOR REACHING EACH TARGET GROUP
No	RESULT NAME/ Short Description	STRENGTHS of each Result	WEAKNESSES of each Result	WHO WILL BENEFIT From each Result	DISSEMINATION/ COMMUNICATION METHOD DATE AND PLACE
3	Enhanced e-CISE adaptors to convert legacy system information into the e-CISE data model to be exchanged with the ANDROMEDA network.	1) Connection between the land and maritime domains 2) Exchange of different domains situation awareness connected to the ANDROMEDA network 3) Exchange of aggregated and augmented relevant information with the CISE network	Too specific e-CISE adaptors linked to extensions of the data model that stick only with ANDROMEDA current needs and that are not general-purpose adaptors	Border Police / /Land Border Authorities/maritime Border Authorities	Sector Magazines Name, Date, Place Rome, Italy, 2020
OWNERSHIP draft	RELATION TO THE WORK STRUCTURE [Relative WP/Task] [current → expected TRL]	OPPORTUNITIES for each Result	THREATS For each Result	HOW WILL THIS GROUP BENEFIT	BUDGET AND PRIORITY
ENG	WP4	Readiness to the potential enhanced needs of the CISE environment	Wrong experimental information reaching the CISE network through the e-CISE adaptors	Better information sharing e-CISE compliant among the Border Authorities	Budget around 1000 Euros Priority: Medium
SHARES OF OWNERSHIP (100%)	TRL5→7				

Table 11: Innovation Management Roadmap for the Data Fusion components

RESULTS TABLE		SWOT ANALYSIS		TARGET GROUPS	METHOD FOR REACHING EACH TARGET GROUP
No	RESULT NAME/ Short Description	STRENGTHS of each Result	WEAKNESSES of each Result	WHO WILL BENEFIT From each Result	DISSEMINATION/ COMMUNICATION METHOD DATE AND PLACE
4	Development of Situation Awareness and Decision Support Services	Interoperability with existing Data Fusion services/ Real time warnings and alerts / compatibility with C2 platforms	Situational awareness alerts not yet defined in details and tested	Border Police / /Emergency Authorities/ Researchers & Scientific Community	Present ANDROMEDA's results through EXUS dissemination social media channels and in other relevant EU funded projects where EXUS is participating (e.g RANGER, CAMELOT).
OWNERSHIP draft	RELATION TO THE WORK STRUCTURE [Relative WP/Task] [current → expected TRL]	OPPORTUNITIES for each Result	THREATS For each Result	HOW WILL THIS GROUP BENEFIT	BUDGET AND PRIORITY
EXUS	WP4	Integration with C2 systems for border surveillance systems. Compatibility with CISE and e-CISE framework.	Existing event processing systems may already provide a similar functionality.	Better Situational Awareness for operations	TBD
SHARES OF OWNERSHIP % to be finalised among partners in WP4	TRL5→7				

Table 12: Innovation Management Roadmap for the Socrates OC

RESULTS TABLE		SWOT ANALYSIS		TARGET GROUPS	METHOD FOR REACHING EACH OF THE TARGET GROUPS
No	RESULT NAME/ Short Description	STRENGTHS of each Result	WEAKNESSES of each Result	WHO WILL BENEFIT From each Result	DISSEMINATION/ COMMUNICATION METHOD DATE AND PLACE
5	Socrates OC	The importance of the total integration with eCISE data model and services. Exploiting all the entities, consuming and publishing information.	The lack of integration with communication devices like IP telephones.	Border Security Companies Maritime and land security / safety / Emergency Authorities, Expert networks, Regulatory Bodies, Researchers	GMV news paper Name, Date, Place After the trial
					Trade Fair/Exhibition: Technological solutions for security (TEDAE), Madrid, Spain. Date not announced yet.
OWNERSHIP draft	RELATION TO THE WORK STRUCTURE [Relative WP/Task] [current → expected TRL}	OPPORTUNITIES for each Result	THREATS For each Result	HOW WILL THIS GROUP BENEFIT	BUDGET AND PRIORITY
BENEFICIARY GMV	WP4. T4.2	The existence of new opportunities to test Socrates OC in another environment with another customer and other integration.	The negative impact of the transition phase of EUCISE, and the future acceptance of the new data model.	Better Situation Awareness. Ease decision-making process.	Cost (in €): 6.000 (GMV supports this event no information about the cost is currently available) Priority: Medium
SHARES OF OWNERSHIP (%)100%	TRL6 →7				

Table 13: Innovation Management Roadmap for GeoC2

RESULTS TABLE		SWOT ANALYSIS		TARGET GROUPS	METHOD FOR REACHING EACH TARGET GROUP
No	RESULT NAME/ Short Description	STRENGTHS of each Result	WEAKNESSES of each Result	WHO WILL BENEFIT From each Result	DISSEMINATION/ COMMUNICATION METHOD, DATE AND PLACE
6	GEOC2	A deeply integrated solution for both situational awareness and operational needs that can support a large array of public and private actors in in the CISE ecosystem while extending them towards the operational management domain.	The implementation of the ANDROMEDA Data Model and Service Model may lend a perception that the solution supports an ANDROMEDA-only model instead of a generic C2 system (as is the case of GeoC2)	Border Police / /Emergency Authorities/ UAV Expert Networks/ Researchers & Scientific Community	Conference: Segurex Lisbon, 2021 Website: Inovaworks Web Site and Marketing Materials
OWNERSHIP draft	RELATION TO THE WORK STRUCTURE [Relative WP/Task] [current → expected TRL]	OPPORTUNITIES for each Result	THREATS For each Result	HOW WILL THIS GROUP BENEFIT	BUDGET AND PRIORITY
INOVAWORKS	WP4	Successful implementation of ANDROMEDA in GeoC2 would position Inovaworks' product as a key reference in shared operational environment information sharing and cooperation, giving the company substantial edge in the marketplace.	Too-generic Data Models and Data Privacy concerns may hinder each actor's willfulness to share data and fully embrace a distributed cooperative operational environment such as the one ANDROMEDA proposes.	Better Situation Awareness for targeted missions using UAVs and multi-modal assets with minimal multi-community integration cost.	Budget 1200 Euros link Priority: Medium Website: Q1 2020 Priority: Medium

Table 14: Innovation Management Roadmap for the Decision Support Systems

RESULTS TABLE		SWOT ANALYSIS		TARGET GROUPS	METHOD FOR REACHING EACH OF THE TARGET GROUPS
No	RESULT NAME/ Short Description	STRENGTHS of each Result	WEAKNESSES of each Result	WHO WILL BENEFIT From each Result	DISSEMINATION/ COMMUNICATION METHOD DATE AND PLACE
7	Decision support systems (VISIR, WITOL, Ocean-SAR) adapted and integrated into CISE.	Secure, effective, common, on-demand provision of decision support services, integrated within CISE	i) Processing of multiple data sources ii) it might be necessary to limit the output information for compliance with the CISE model	Border Security Companies, Maritime and land security / safety / Emergency Authorities, Expert networks, Regulatory Bodies, Researchers.	Trade Fair/ Exhibitions/ Conferences
OWNERSHIP draft	RELATION TO THE WORK STRUCTURE [Relative WP/Task] current → expected TRL	OPPORTUNITIES for each Result	THREATS For each Result	HOW WILL THIS GROUP BENEFIT	BUDGET AND PRIORITY
BENEFICIARIES To be finalized in Task 7.3	[WP2, WP3, WP4, WP5, WP6]	To provide, evaluate, and collect CISE network users' feedback on decision support systems developed by the research community; to compare optimal tracks to actually sailed tracks (from AIS data)	N/A	Enhanced Situation Awareness and informed decision support for targeted missions	Not yet defined
SHARES OF OWNERSHIP : finalized in T.7.3	The components' TRL range from TRL6 → TRL 7				

Table 15: Innovation Management Roadmap for the meteorological and oceanographic products

RESULTS TABLE		SWOT ANALYSIS		TARGET GROUPS	METHOD FOR REACHING EACH TARGET GROUP
No	RESULT NAME/ Short Description	STRENGTHS of each Result	WEAKNESSES of each Result	WHO WILL BENEFIT From each Result	DISSEMINATION/ COMMUNICATION METHOD DATE AND PLACE
8	High resolution meteorological and oceanographic products integrated into CISE and (for meteo data) extended to the land environment	Secure, effective, common situational awareness through meteo-oceanographic forecasts, integrated within CISE	i) Processing of multiple data sources ii) For visualization purposes, CISE users could not be able to resolve a webapp URL	Border Security Companies Maritime and land security / safety / Emergency Authorities, Expert networks, Regulatory Bodies, Researchers	Trade Fair/Exhibitions/ Conferences
OWNERSHIP draft	RELATION TO THE WORK STRUCTURE [Relative WP/Task] [current → expected TRL]	OPPORTUNITIES for each Result	THREATS For each Result	HOW WILL THIS GROUP BENEFIT	BUDGET AND PRIORITY
BENEFICIARIES To be finalised in Task 7.3	[WP2, WP3, WP4, WP5, WP6]	To provide, evaluate, and collect CISE network users' feedback on state-of-the-art meteo-oceanographic forecast products	N/A	Better Situation Awareness for targeted missions	Not yet defined
SHARES OF OWNERSHIP (%) To be finalised in Task 7.3	The components' TRL range from TRL5 → TRL 7				

4.2 Dissemination and Communication Activities Table

The present Table lists all completed and planned Dissemination and Communication Activities. The layout follows the one of the participants' portal.

Table 16: Dissemination and Communication Activities Table

Type	Total Num.	Title	Audience	Date and Place	Partner Responsible
Organisation of a Workshop	1				
	1	Joint Workshop on maritime border security	participants from the projects RANGER, MEDEA, ANDROMEDA & MSE participants	MSE 2019, October 29-31 2019	KEMEA
Press release - Article	3				
	1	A new research initiative for the control and safety of European borders (EN)	website visitors, researchers	website of KEMEA, 07/10/2019	STWS-MMAIP-KEMEA
	1	A new research initiative for the control and safety of European borders (ENGLISH VERSION) Μία νέα ερευνητική πρωτοβουλία για την εποπτεία και την ασφάλεια των ευρωπαϊκών συνόρων (GREEK VERSION)	website visitors, researchers, media	3/10/2019, website of MMAIP	STWS-MMAIP-KEMEA
	1	Con ANDROMEDA la sicurezza dei confini è nella condivisione delle informazioni (ITALIAN VERSION)	website visitors, researchers	website of ENG 07/10/2019 (www.inside.eng.it)	ENG
Non-scientific and non-peer-reviewed publication (popularised publication)	2				
	1	Interview in "METZUDA" magazine. In this article, The Head of INP R&D unit is going to mention the common work with the EU (and the H2020) in general and the ANDROMEDA project in particular.	security leaders of israeli agencies and public organizations	End of December (no specific date yet)	MOPS-INP

Type	Total Num.	Title	Audience	Date and Place	Partner Responsible
	1	Forerunner Magazine, Laurea University	academia and others interested in EU-projects including future professionals in safety and security	To be scheduled	LAUREA
Exhibition	2				
	1	SeaFuture 7th Edition 2020	enterprises, maritime cluster organizations and sector associations including State institutions and Government / non-governmental organizations	La Spezia Navy Base, Italy, June 23-27 2020	CODIN
	1	Technological solutions for security (TEDAE), Madrid, Spain			GMV
Flyer	4				
	1	ANDROMEDA flyer	Mediterranean Security Event 2019 attendees, researchers and academics, policy makers	Crete, Greece, October 29-31, 2019	STWS/ ICCS
	1	ANDROMEDA roll up banner for general use	2nd Greek pilot / final workshop of RANGER, academics, researchers, end users	Crete, Greece, November 19-20, 2019	STWS
	1	ANDROMEDA roll up banner for MSE 2019	Mediterranean Security Event 2019 attendees, researchers and academics, policy makers	Crete, Greece, October 29-31, 2019	STWS
	1	ANDROMEDA Inovaworks Flyer	Potential Inovaworks clients	Q2 2020	Inovaworks
Training	1				
	1	Training in JOINT RESCUE COORDINATION CENTER (J.R.C.C.)		27-29th November 2019, LARNACA - CYPRUS	MSD
Social Media	2				
	1	Twitter Account: @ANDROMEDA_H2020	researchers, academics, policy makers, general	October 2019	STWS

Type	Total Num.	Title	Audience	Date and Place	Partner Responsible
			public, companies		
	1	Linked In Account: https://www.linkedin.com/in/andromeda-horizon2020-project	researchers, academics, policy makers, general public, companies	October 2019	STWS
Website	1				
	1	Andromeda Project website		November 2019	STWS
Communication Campaign (e.g. Radio, TV)	1				
	1	An interview in a national media will be given introducing the ANDROMEDA Project. The dissemination of information among the national stakeholders will provide further awareness of the project	Wide public	Bulgaria, dates to be scheduled	EAMA
Participation to a Conference	6				
	1	Mediterranean Security Event 2019, Crete, Greece, October 29-31, 2019	researchers and academics, policy makers	Crete, Greece, October 29-31, 2019	STWS/KE MEA/ ICCS/ EXUS
	1	European Maritime Day	professionals from businesses, governments, public institutions, NGOs and academia	Cork, Ireland, May 14-15th 2020	MSD
	1	Conference Information Technology (IT 2020) in Žabljak – Montenegro supported by IEEE and some papers will be in IEEE Xplore	Academia and industry representatives	18-22 February 2020, Žabljak, Montenegro	MSD
	1	27th Telecommunications Forum TELFOR 2020	Academia and industry representatives	October, 2020, Belgrade, Serbia	MSD

Type	Total Num.	Title	Audience	Date and Place	Partner Responsible
	1	The 2020 International Conference on Unmanned Aircraft Systems	Academia and industry representatives, exhibitors	Athens, June 9 - 12, 2020	ICCS
	1	1st Maritime Situational Awareness Workshop, Villa Marigola, Lerici (La Spezia), Italy 8–10 October 2019, MSAW 2019,	researchers and academics, policy makers	Lerici, Italy, October 8-10, 2019	LAUREA
Participation to a Workshop	4				
	1	Joint Workshop on maritime border security	participants from the projects RANGER, MEDEA, ANDROMEDA, MSE participants	MSE 2019, October 29-31 2019	KEMEA, SATWAYS, EXUS
	1	REMPEC (Regional Marine Pollution Emergency Response Centre for the Mediterranean Sea) focal point meeting	professionals from businesses and public institutions representatives	Malta, 2020	MSD
	1	MCGFF 2020 MEDITERRANEAN COAST GUARD FUNCTIONS FORUM 2020	Experts and professionals in maritime safety, security and environmental protection	2020	MSD
	1	Meeting in EMSA	Experts groups for CleanSeaNet, EU LRIT, SafeSeaNet and IMS	2020	MSD
Participation to an Event other than a Conference or a Workshop	11				
	1	Round Table on Maritime Transport Connectivity, South Adriatic Connectivity Governance		Tirana, Albania, October 30th, 2019	MSD
	1	INP internal forums	operational and technological representatives	occasionally performed , no specific dates	MOPS-INP
	1	INP external forums	forums with Industrial and Academic representatives	occasionally performed , no specific dates	MOPS-INP

Type	Total Num.	Title	Audience	Date and Place	Partner Responsible
	1	Maritime Safety Department participation on National Joint-Interministerial Exercise and meeting	Internal	Bar, Montenegro, October 4th 2019	MSD
	1	Maritime Safety Department participation on National Joint-Interministerial Exercise and meeting	Internal	It is also expected to be realised in 2020 in the provided date and place	MSD
	1	17th Mediterranean Expert Working Group for maritime surveillance and AIS data collection in Mediterranean sea (MARES meeting)	Experts in maritime surveillance, EMSA representatives, Italian Coast Guard	December, 2020, Rome, Italy	MSD
	1	PANORAMED project – Task Working Group 6: Maritime Surveillance	Experts in maritime surveillance, governmental institutions representatives	2020	MSD
	1	EUREKA project –Interreg ADRION	EUREKA project partners	2020	MSD
	1	SAGOV project – Interreg IPA CBC Albania, Italy and Montenegro	SAGOV project partners	2020	MSD
	1	Lecture at Durban University of Technology – DUT	Students and professors at DUT	January 2020	MSD
	1	Assessment Visit – USCG (The United States Coast Guard) International Port Security Program in Montenegro	Internal	July 2020	MSD
Trade Fair	1				
		Segurex 2020	Security forces and Border Control communities	Lisbon, May 2020	Inovaworks
Participation in activities organized jointly with other H2020 projects	1				
	1	2nd Greek pilot and final workshop of RANGER	academics, researchers, end-users	Crete, Greece, November 19-20 2019	MMAIP/ KEMEA/E XUS

Additionally, KEMEA has co-organised together with DG-HOME, EARTO, ENLETS και SECURITY COU the Mediterranean Security Event 2019 that took place in Crete, Greece, October 29th -31st and has attracted more than 200 attendees from the security sector.

Furthermore, MOPS-INP presents the project from time to time in **internal organization** meetings involving relevant operational and technological users. ANDROMEDA is also recording audience sizes from dissemination and communication activities and will be reporting them in the participant portal.

4.3 Communication Map

This Chapter serves to present the locations in Europe chosen for the communication of the ANDROMEDA project and the dissemination of the ANDROMEDA Results.

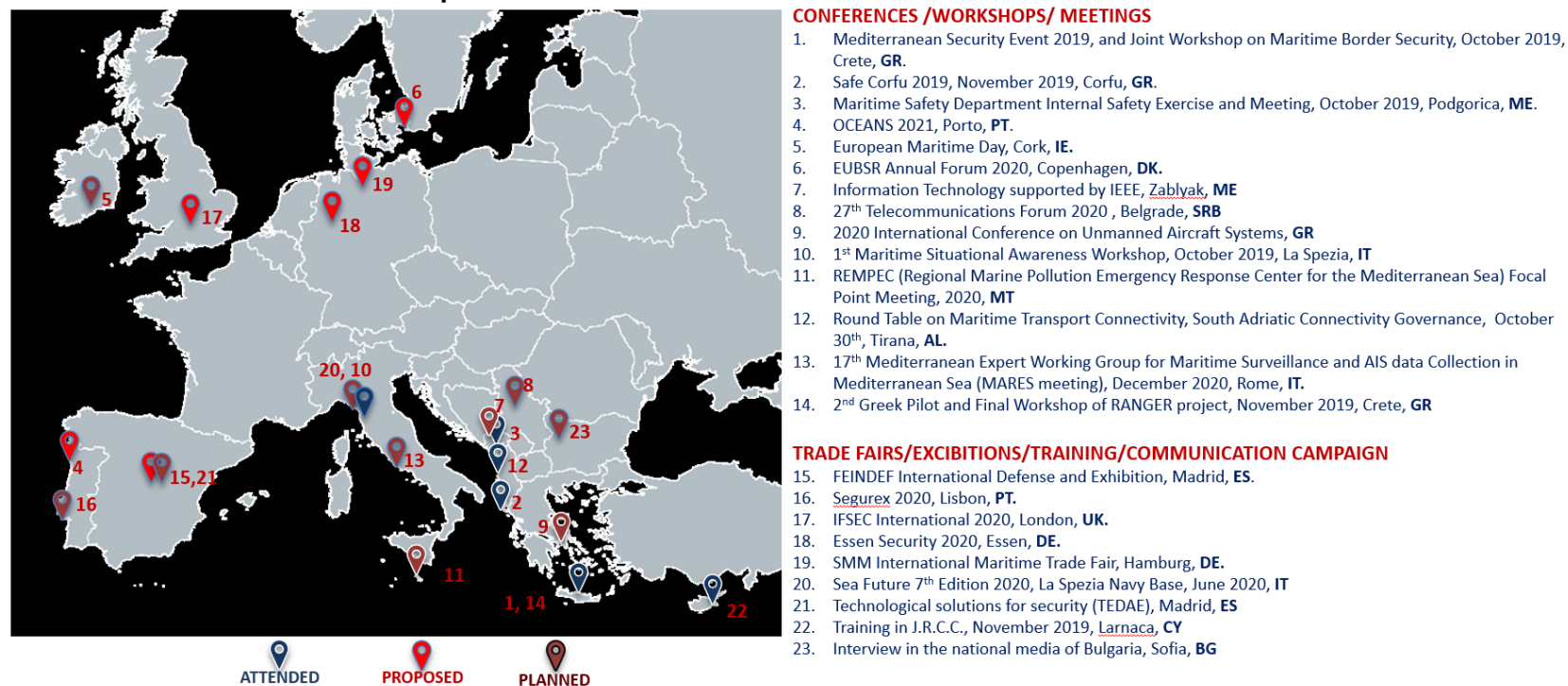


Figure 12: Communication Map of the ANDROMEDA project

4.4 Dissemination and Communication Metrics and Targets

The Dissemination and Communication metrics and targets declared in the Grant Agreement are presented in the Table below together with the current status with respect to reaching the goals (see paragraph 4.2 for details). The consortium is closely following the current status and is working towards reaching all communication goals.

	Metrics	Target	Current Status (M3)
Dissemination	Publications in scientific Journals	3	Not yet prepared
	Presentation in scientific conferences/conference proceedings	n n<6	2 presentations in Conferences completed, 4 planned
Communication	Number of views of website	5,000	Website currently being developed, will be made accessible to the public on 15/12/2019
	Published articles in papers, magazines, newspapers	3	Press Release published in 2 websites, article published in one website, 2 non-scientific articles planned in magazines, 1 interview in national media planned.
	Information material, Creation of leaflets, brochures, posters	3	1 flyer and 2 roll up banners created and used, 1 more leaflet planned
	Newsletter	6	Approximately 1 every 3 months planned. First newsletter to be released on M4
	Video material introducing ANDROMEDA's findings & results	1	Video material not yet prepared
	Number of video views	1,000	Video material not yet prepared
	Number of professionals to whom the project leaflet will be distributed	500	200
	Presentation in trade fairs, exhibitions	6-n	1 participation in Trade Fair planned, 2 participations in exhibitions planned
	Project website leaflet and/or poster downloads	200	Website currently being developed, will be made accessible to the public on 15/12/2019
	Twitter account followers	200	98
	LinkedIn Group members	200	84 followers, 77 connections
	Social media posts	150	15

5. Communication Material

5.1 Project Roll up banner

The ANDROMEDA Roll Up Banner has been prepared for general use in order to support all communication activities of the project. It contains a brief description of the project, ANDROMEDA logo, partners' logos, contact details with the consortium, as well as the EU emblem, information on EU funding and disclaimer excluding Agency responsibility, that are foreseen in the Grant Agreement (paragraph 29.4 and 29.5, respectively). The colours chosen are in line with the branding strategy

This material has already been used at the RANGER pilot and final workshop that took place in Crete, on the 19th & 20th of November 2019. A different version has been prepared earlier for the Mediterranean Security Event MSE 2019 that took place in Crete from 29th to 31st of October 2019.



Figure 13: ANDROMEDA Roll Up Banner i) for general use ii) for MSE 2019

5.2 Project leaflet

The first version of the ANDROMEDA trifold leaflet was designed for distribution during all communication activities, and is aimed at the wider public. Therefore, the motivation, ambition and impact are mainly presented. The colour chosen is light blue, symbolizing peace at the sea as a result of cooperation and effective border control.


Ambition

Andromeda aims to:

- Unlock the full capabilities of the CISE by **enhancing the Maritime CISE model** and by extending its scope to the **Land Surveillance Information Exchange**
- Provide a Secure, effective **common situational awareness and information exchange system integrated with CISE**
- Strengthen the Cross-sector and Cross-Border **collaboration between authorities operating in the Land and Maritime Environments**
- Demonstrate and validate advanced, CISE compliant Command and Control Systems
- Kick start the **future demand for CISE Information services**

Consortium

19 Partners from 9 countries will collaborate in Andromeda Project from Sept 2019 to Feb 2021




Practitioners



andromeda

An Enhanced Common Information Sharing Environment for Border Command, Control and Coordination Systems



www.andromeda-project.eu

Contact Us

Project Coordinator
Ms. Athina Foka
afoka@mou.gr


Project Manager
Mr. Alkis Astyakopoulos
a.astyakopoulos@kemea-research.gr

Technical Manager
Dr. Antonis Kostaridis
a.kostaridis@satways.net

www.andromeda-project.eu

[@andromeda_h2020](https://twitter.com/andromeda_h2020)

[andromeda-horizon2020-project](https://www.linkedin.com/company/andromeda-horizon2020-project)



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Motivation

Border surveillance is a complex mission given the length of European borders and the variety of terrain configuration.

There are **several threats that prevail in the Maritime and Land borders.**

Several **efforts** have been made in the past & current years to increase the efficiency of surveillance activities via the collection & exchange of land and maritime surveillance information between control authorities. The most important efforts were initially EUROSUR and later on CISE (Common Information Sharing Environment).

The **proposed Andromeda solution** is a distributed set of systems and services interconnected according to the extended CISE principles, that aim to foster:

- faster detection of new events
- better informed decision making
- achievement of a joint understanding & undertaking of a situation across borders

Andromeda Systems Overview



Impact

- The enhanced CISE Model will streamline the integration with current and future operational systems and is perfectly aligned with the overall European policy that **facilitates the inter-agency interoperability and cooperation** and allows each Member State to decide how, when and whether additional data sources are of relevance to its operations.
- National and European authorities, law enforcement agencies, intelligence agencies, security providers, are all **examples of end users that will benefit from the ANDROMEDA research**. ANDROMEDA also impacts positively on academia, industry, technology providers and companies, through matching requirements and capability gaps of users, and by promoting exploitation and collaboration.



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 833881. This communication material reflects only the authors' views and the Research Executive Agency (REA) is not responsible for any use that may be made of the information it contains.



Figure 14: Picture of the trifold ANDROMEDA brochure i) external view ii) internal view

5.3 Project Presentation

The official project presentation was prepared in order to facilitate the communication of the project by several partners in various events, like the Maritime Safety Department Internal Safety Exercise and Meeting that was held in October, in Podgorica 2019, Montenegro.

The presentation has been designed in line with the branding strategy, consists of 17 slides and includes the following main Chapters:

- Motivation
- Project Ambition
- Consortium
- ANDROMEDA Operational Trials
- Expected Impact

Special Emphasis has been given at non disclosing confidential information and the partners have been advised to use only the information in the official presentation for both presentations and discussions.





 <p>Motivation</p>	<p>Motivation 1/3</p> <ul style="list-style-type: none"> ➤ Border surveillance is a complex mission given the length of European borders and the variety of terrain configuration. ➤ Historically, the Mediterranean region has always been witnessing challenges like migration flows, cross-border crime, persistent natural hazards (forest fires, floods and earthquakes, etc.), which required cross-border and multi-discipline collaboration in order to optimise response actions. ➤ Still, there are several threats that prevail in the Maritime and Land borders: piracy, trafficking of drugs, illicit goods, arms proliferation, illegal fishing, environmental crimes and maritime accidents/disasters. <p>Slide 4 Andromeda Horizon 2020 project official presentation</p>
 <p>Andromeda Project Ambition</p>	<p>Project Ambition</p> <ul style="list-style-type: none"> ➤ ANDROMEDA aims to unlock the full capabilities of the CISE Model by enhancing the Maritime CISE Model and by extending its scope to the Land Surveillance Information Exchange. ➤ The project will address the “fragmentation” and close “gaps” in information sharing by providing a secure, effective common situational awareness and information exchange system integrated with CISE. <p>The proposed solution is a distributed set of systems and services interconnected according to the CISE principles, that aim to foster:</p> <ul style="list-style-type: none"> ➤ faster detection of new events, ➤ better informed decision making and ➤ achievement of a joint understanding & undertaking of a situation across borders <p>Slide 8 Andromeda Horizon 2020 project official presentation</p>
 <p>Expected Impact</p>	<p>Expected Impact</p> <ul style="list-style-type: none"> ➤ The enhanced CISE Model will streamline the integration with current and future operational systems and is perfectly aligned with the overall European policy that facilitates the interagency interoperability and cooperation and allows each Member State to decide how, when and whether additional data sources are of relevance to its operations. ➤ National and European authorities, law enforcement agencies, intelligence agencies, security providers, are all examples of end users that will benefit from the ANDROMEDA research. ANDROMEDA also impacts positively on academia, industry, technology providers and companies, through matching requirements and capability gaps of users and promoting exploitation and collaboration. ➤ Strengthening European society's resilience will help safeguard life and European values. <p>Slide 16 Andromeda Horizon 2020 project official presentation</p>

Figure 15: Slides from the Official Project Presentation

5.4 Press Releases

The Press Release for the ANDROMEDA project start has been prepared in two languages, namely English and Greek, and has already been published in the websites of the Ministry of Maritime Affairs and Insular Policy, as well as the Center for Security Studies.

PRESS RELEASE



andromeda

ATHENS
October 7th, 2019

A NEW RESEARCH INITIATIVE FOR THE CONTROL AND SAFETY OF EUROPEAN BORDERS

The ANDROMEDA research project is titled '**An Enhanced Common Information Sharing Environment for Border Command, Control & Coordination Systems**' and is coordinated by the Hellenic Ministry of Maritime Affairs and Insular Policy.

The project aims to unlock the full potential of CISE (**Common Information Sharing Environment**), by validating for a long period of time CISE-compatible command, control and coordination systems from several Coast and Border Agencies.

Furthermore, Andromeda is envisaged to **further enhance, validate and demonstrate CISE** by extending its scope to the Land Surveillance Information Exchange and adapting relevant C2 solutions and associated services. This will be accomplished by extending the CISE data model based on the use cases and requirements, and by adapting state-of-the-art command & control systems for full compliancy with the enhanced model and CISE message exchange patterns.

ANDROMEDA is also focusing on demonstrating the capacity of full **integration of decision support tools** in the field of border surveillance and maritime safety (e.g. Search and rescue and safe navigation during control and operation at sea) also considering maritime accidents/disasters.

The enhanced CISE Model will streamline the integration with current and future operational systems and is perfectly aligned with the overall European policy that **facilitates the interagency interoperability and cooperation** and allows each Member State to decide how, when and whether additional data sources are of relevance to its operations.


The proposed solution is a distributed set of systems and services interconnected according to the CISE principles that aim to foster **faster detection of new events, better informed decision making and achievement of a joint understanding & undertaking of a situation across borders**.

The Andromeda project started on September 2019 and will last for 18 months. 19 partners from 9 countries* will be working in Andromeda, bringing their important experience from relevant past and current research projects. Therefore, the project is expected to have an important impact on the control and safety of European Borders, as well as in broadening cross national cooperation.

Contacts

Project Coordinator: Mrs Athina Foka, Ministry of Maritime Affairs and Insular Policy, +30-6949309615, afoka@mou.gr

Dissemination & Communication: Dr Souzanna Sofou, SATWAYS Ltd, +30-210-6840036, s.sofou@satways.net



This project has received funding from the European Union's Horizon 2020 Work Programme for research and innovation 2018-2020, under the Grant Agreement No 833881.

This communication material reflects only the authors' views and the Research Executive Agency (REA) is not responsible for any use that may be made of the information it contains.

Figure 16: ANDROMEDA Press Release

5.5 Project Fiche

The Ministry of Maritime Affairs and Insular Policy together with KEMEA and Satways have worked to prepare the project fiche after an invitation to participate to the first ‘project to policy kick off seminar’ that will be held on January 2020. Emphasis was given to the related EU Policies.

In more detail, by providing a secure, effective common situational awareness and information exchange system, ANDROMEDA is directly affecting citizen safety, by providing an optimised way to survey borders and detect potential illegal activity. This includes the detection of drug trafficking, weapon smuggling, dangerous food smuggling and human trafficking. Therefore, ANDROMEDA is expected to have positive impact to the EU Maritime Security Strategy, the EU Integrated Maritime Policy (i.e. Integrated Maritime Surveillance and CISE), the European Border Surveillance System (EUROSUR) and to its interoperability with other systems.



<p>Border and external security</p> <p>At a glance</p> <p>Title: An Enhanced Common Information Sharing Environment for Border Command, Control and Coordination Systems</p> <p>Type of action: Innovation Action</p> <p>Topic: SU-BES03-2018-2019-2020</p> <p>Demonstration of applied solutions to enhance border and external security</p> <p>Grant Number: 833881</p> <p>Total Cost: € 6,009,589.29</p> <p>EC Contribution: €4,999,462.50</p> <p>Start Date: September 1st, 2019</p> <p>End date: February 28th, 2021</p> <p>Duration: 18 Months</p> <p>Project Web Site: www.andromeda-project.eu (under development)</p> <p>Key Words:</p> <p>Fixed EC keywords: Security, Detection, identification and authentication, Mission Capabilities, Border surveillance</p> <p>Free Keywords: CISE, EUROSUR, Situational Awareness, Command & Control</p> <p>Project Coordinator: 1) MINISTRY OF MARITIME AFFAIRS AND INSULAR POLICY (EL)</p> <p>Project partners:</p> <p>2) GMV AEROSPACE AND DEFENCE SA (ES) (3) SATWAYS LTD (EL) (4) INSTITUTE OF COMMUNICATION AND COMPUTER SYSTEMS (EL) (5) EXUS SOFTWARE LTD (UK) (6) INOVAWORKS II, COMMAND AND CONTROL, SA (PT) (7) FONDAZIONE CENTRO EURO-MEDITERRANEOSUI CAMBIAMENTI CLIMATICI (IT) (8) LAUREA-AMMATTIKORKEAKOULU OY (FI) (9) CODIN - SOCIETA PER AZIONI (IT) (10) STEM OOD (BG) (11) CENTER FOR SECURITY STUDIES (EL) (12) ENGINEERING - INGEGNERIA INFORMATICA SPA (IT) (13) HELLENIC POLICE (EL) (14) MINISTERO DELLA DIFESA (IT) (15) MINISTERIO DA DEFESA NACIONAL (PT) (16) MINISTRY OF PUBLIC SECURITY (IL) (17) EXECUTIVE AGENCY MARITIME ADMINISTRATION (BG) (18) MINISTRY OF NATIONAL DEFENCE (EL) (19) MINISTARSTVO SAOBRAČAJA I POMORSTVA (MSD)</p>	<p style="text-align: center;">ANDROMEDA</p> <p>The challenge</p> <p>Border surveillance is a complex mission given the length of European borders and the variety of terrain configuration. Challenges like migration flows, cross-border crime & persistent natural hazards require cross-border and multi-discipline collaboration in order to optimise response actions. Although solutions at high TRLs to enhance border and external security do exist, they need to be demonstrated in the context of actual operations or exercises for validation by practitioners in order to be fully utilized. Additionally, there are a few technical limitations to achieve a higher degree of information sharing.</p> <p>Project Objectives</p> <ul style="list-style-type: none"> ❖ Define maritime CISE Model enhancements and contribute to the CISE2020 roadmap. ❖ Extend the scope of the CISE Model in order to support land border operational information exchange. ❖ Adapt State-of-the-art Command, Control and Coordination systems for full compatibility with the enhanced CISE Model. ❖ Demonstrate advanced functions as well as data fusion, analytics, situational awareness and decision support services as parts of the C2 systems and the CISE advanced services. ❖ Analyze the legal, ethical and cultural barriers of CISE. ❖ Validate in an adequate period of time and three trials the CISE compliant C2 systems and associated services by several maritime and land border agencies. <p>Concept and approach</p> <p>The system includes CISE compliant Command and Control systems by means of total support of the CISE Service Model and project extended CISE Data Model, a suite of services to correlate and fuse various heterogeneous and homogeneous data and information from different sources, decision support tools, end-user legacy systems and components for the CISE network integration. The layers of the ANDROMEDA Architecture are: 1) Command and Control, 2) Data Fusion, Analytics & Situational Awareness, 3) Decision Support, 4) CISE and 5) Assets and Legacy Systems.</p> <p>Expected Results</p> <p>The proposed solution is a distributed set of systems and services interconnected according to the CISE principles, that aim to foster:</p> <ul style="list-style-type: none"> ➢ Faster detection of new events, ➢ Better informed decision making and ➢ Achievement of a joint understanding & undertaking of a situation across borders <p>Target end users</p> <p>The main targeted end users are National and European authorities, and more precisely government bodies responsible for:</p> <ul style="list-style-type: none"> ➢ Border surveillance (border control, defence sector, coast guards, customs, navy, army, air force, police authorities) ➢ Public safety (homeland security agencies, anti-terrorist units, law enforcement agencies, intelligence agencies) ➢ Immigration (EU and national immigration authorities)
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Figure 17: Screenshot from the ANDROMEDA Project Fiche

6. Social Media, Web Presence and Impact

6.1 ANDROMEDA Twitter Account

The ANDROMEDA Twitter account has already attracted 98 followers, and, therefore, 50% of the target (see Paragraph 4.4 on metrics) has been completed in the first 2 months of its operation.

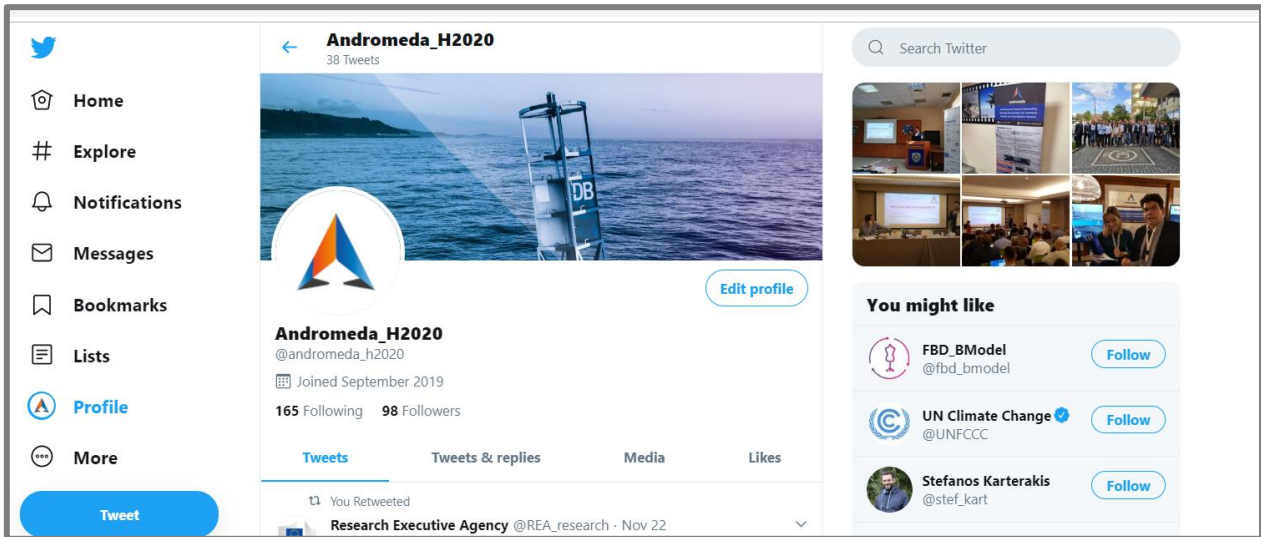


Figure 18: Profile page of the ANDROMEDA Twitter Account

6.1.1 Twitter Analytics

ANDROMEDA is closely following the analytics of the twitter account, in order to measure the impact of each communication activity. During the second month of its operation, the ANDROMEDA Twitter account has earned more than 7,571 impressions, while the profile visits have increased by 45%.

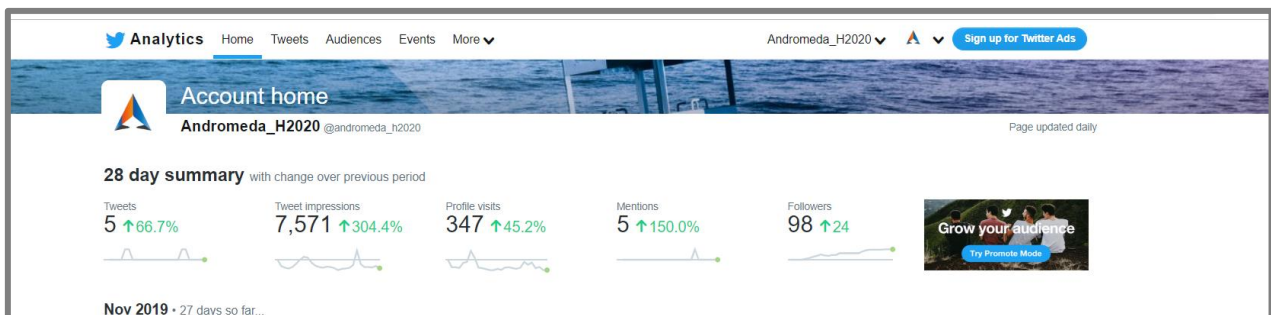


Figure 19: Analytics of the twitter account for the first 2 months of operation

6.2 ANDROMEDA LinkedIn Account

The LinkedIn Account of the ANDROMEDA project currently has 84 followers and 77 connections and is constantly attracting new connections. ANDROMEDA is also part of 3 groups, as listed in the networking paragraph.

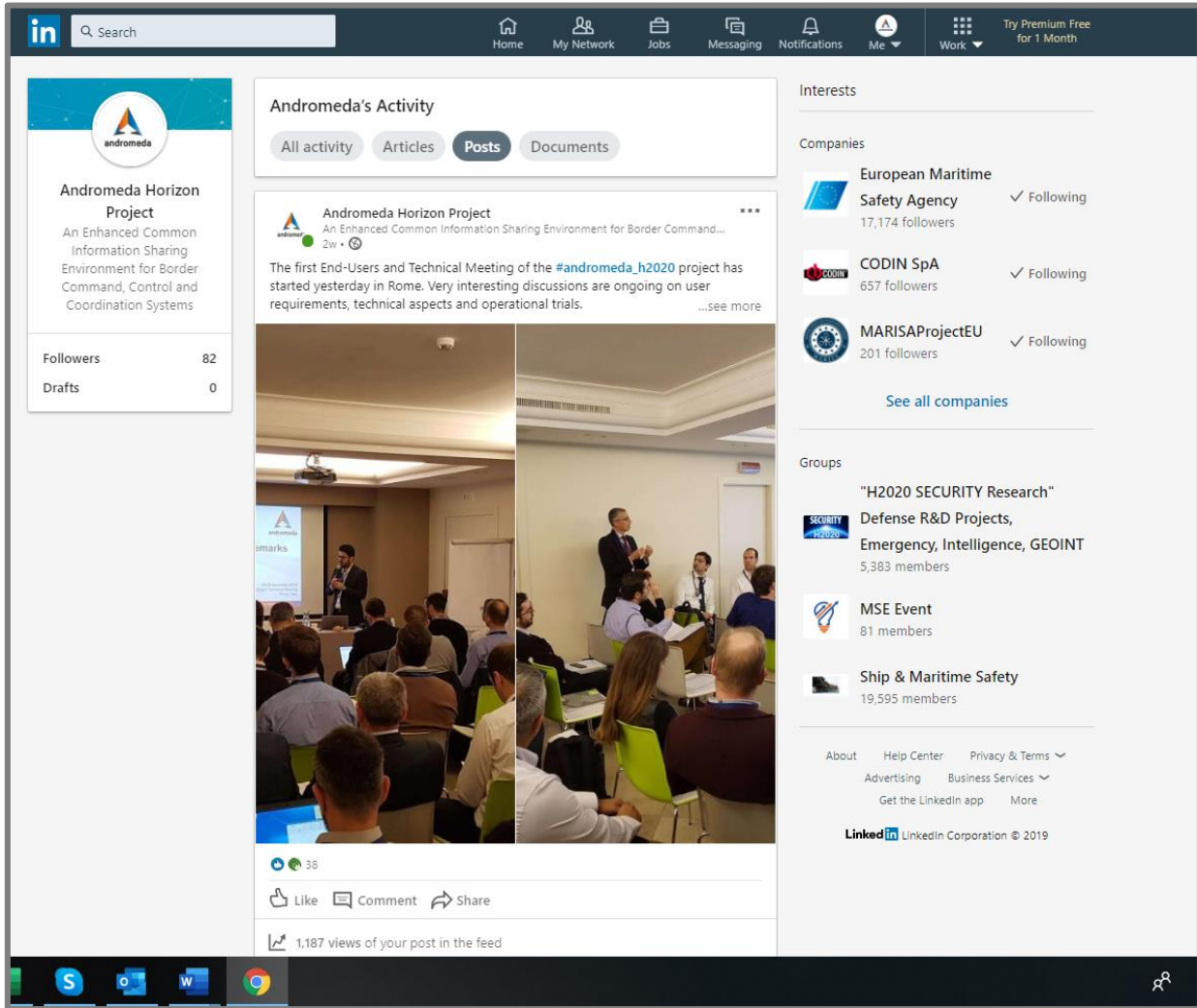


Figure 20: Recent Activity in the Andromeda linked in page

6.3 ANDROMEDA You Tube video

The ANDROMEDA You Tube audio/visual content video will be prepared later in the project and will be shared on other media and platforms. It will contain, among others, general information about the project and its impact, interviews with the end users, and small demonstrations of the tools that will be developed.

6.4 ANDROMEDA Webpage

The ANDROMEDA Webpage (www.andromeda-project.eu) is currently being developed and will be made accessible to the public at December 2019 (M4), so that the relevant milestone set in the Grant Agreement can be met (MS2, Due Date: M5, Web Site established and populated with dissemination material). The ANDROMEDA Webpage will be presented with detail in the corresponding deliverable D7.4.

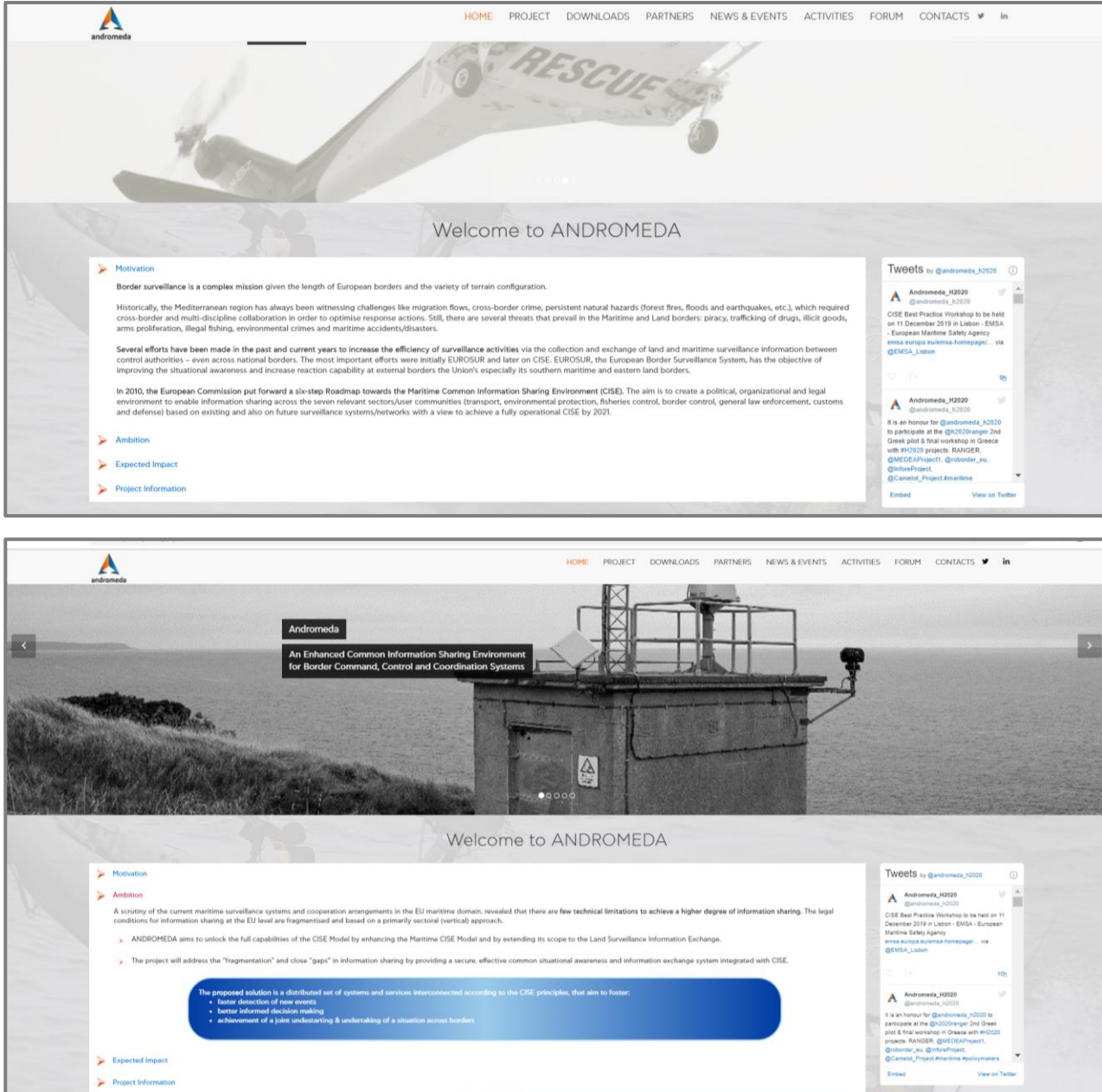
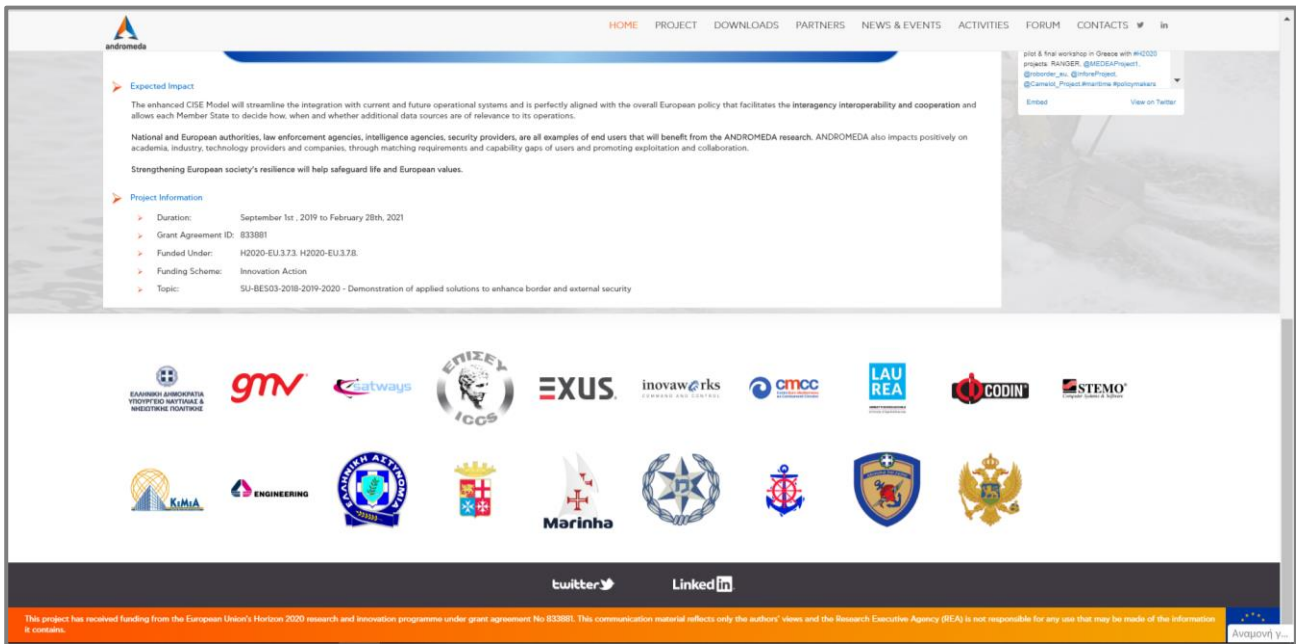


Figure 21: Screenshots of ANDROMEDA Website



The screenshot displays the ANDROMEDA website interface. At the top, there is a navigation menu with links for HOME, PROJECT, DOWNLOADS, PARTNERS, NEWS & EVENTS, ACTIVITIES, FORUM, and CONTACTS. The main content area is divided into two columns. The left column features a section titled 'Expected Impact' with text explaining the project's goals and a 'Project Information' section listing details such as duration (September 1st, 2019 to February 28th, 2021), grant agreement ID (833881), funding under (H2020-EU.3.7.3. H2020-EU.3.7B), funding scheme (Innovation Action), and topic (SI-BES03-2018-2019-2020 - Demonstration of applied solutions to enhance border and external security). The right column contains a social media widget for Twitter, showing a tweet about a pilot & trial workshop in Greece. Below the main content, a large banner displays logos of various partners, including EΛΛΗΝΙΚΗ ΔΗΜΟΚΡΑΤΙΑ, gmv, Katways, ETIZEY IGS, EXUS, inovawrks, cmcc, LAU REA, CODIN, and STEMO. A second row of logos includes KIMIA, ENGINEERING, ΛΑΤΩΝ ΑΕΤΩΝΑ, a coat of arms, Marinha, a star logo, a red anchor logo, a shield logo, and a coat of arms. At the bottom, there are social media icons for Twitter and LinkedIn, and a footer containing a disclaimer: 'This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 833881. This communication material reflects only the authors' views and the Research Executive Agency (REA) is not responsible for any use that may be made of the information it contains.' The footer also includes the European Union flag and the text 'Αναστροφή γ...

Figure 22: Screenshots of ANDROMEDA Website (continued)

7. Conclusions

This Deliverable serves to present the methodology for the development of the Dissemination and Communication Strategy, the tools created and the individual steps followed for the establishment of the Dissemination and Communication Plan of the ANDROMEDA Horizon2020 project.

The methodology includes, among others, agreement on SMART objectives, stakeholder analysis, Innovation Management Roadmap for the Results, and definition of validation measures for the Results acceptance. Furthermore, the Grant Agreement and Consortium Agreement Dissemination and Communication Rules are presented.

Based on the strategy developed, the dissemination and communication plan and map are presented. The Document also presents the communication material that has been prepared in line with the branding strategy. In addition, the social media pages are presented together with the corresponding analytics.

The validation measures will be used for monitoring the progress towards the agreed goals, and if necessary, the consortium will update the Dissemination and Communication Plan and will utilize the main as well as the additional resources towards fulfilling the relevant metrics and goals.

8. Annex A: Quality Review Report

The ANDROMEDA Consortium uses the Quality Review Report process for its internal quality assurance for deliverables to assure consistency and high standard for documented project results.

The Quality Review Report is used individually by selected peer reviewers. The allocated time for the review is 7 calendar days. The author of the document has the final responsibility to reply on the comments and suggestions of the peer reviewers and decide what changes are needed to the document and what actions are to be undertaken.

8.1 Reviewers

Project Coordinator	Mrs. Athina Foka (MMAIP)
Management Support Team Member	Mr. Alkis Astyakopoulos (KEMEA)
Internal Peer Reviewer(s)	Mr. Lazaros Karagiannidis (ICCS), Lieutenant Iordanis Naziris (MMAIP)

8.2 Overall Peer Review Result

The Deliverable is:

- Fully accepted
- Accepted with minor corrections, as suggested by the reviewers
- Rejected unless major corrections are applied, as suggested by the reviewers

8.3 Consolidated Comments of Quality Reviewers

General Comments	
Deliverable contents thoroughness	Reviewers comment: The deliverable is thorough in covering all aspects of planning the communication and dissemination activities of the project. Author's reply: -
Innovation level	Reviewers comment: The Communication and Dissemination Strategy and Plan for the ANDROMEDA Results is in line with the Innovation Management Methodology and specifically is based on an Innovation Management Roadmap created for each Result. Author's reply: -
Correspondence to project and programme objectives	Reviewers comment: The deliverable is in line with the project and programme objectives. Author's reply: -
Specific Comments	
Relevance with the objectives of the deliverable	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Not applicable Reviewers comment: -

	Author's reply: -	
Completeness of the document according to the its objectives	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Not applicable	Reviewers comment: Author's reply:
Methodological framework soundness	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Not applicable	Reviewers comment: - Author's reply: -
Quality of the results achieved	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Partially <input checked="" type="checkbox"/> Not applicable	Reviewers comment: - Author's reply: -
Structure of the deliverable with clear objectives, methodology, implementation, results and conclusions	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Partially <input checked="" type="checkbox"/> Not applicable	Reviewers comment: Author's reply:
Clarity and quality of presentation, language and format	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Not applicable	Reviewers comment: Some corrections in the language and the formatting, as identified with track changes in the document, needs to be done before submitting the deliverable. Author's reply: Completed.
Detailed Comments (please add rows as appropriate)		
No.	Reference	Remark
1	Section 2.1	Correction of the timing of the Workshops. Reassess the validation measure of the number of professionals requesting further information and connecting through social media accounts.
2	Section 6.3	Specify as much as possible the content of the You Tube video that will be developed during the project lifecycle.
5	All Sections	Language corrections and formatting.