



Project acronym: **GROOM II**

Project title: **G**liders for **R**esearch, **O**cean **O**bservation & **M**anagement:
Infrastructure and **I**nnovation

Grant agreement no. 951842

D.1.4

Dissemination and Outreach Report

Due delivery date: M18

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V1	10/03/2020	Outline of the deliverable	Charlène Aurégan, Colin Ruel (PMM-TVT)
V2	15/03/2020	1 st version of the deliverable	PMM-TVT (all)
V3	30/03/2021	Final review	ARMINES, Kamil SZAFRANSKI

Deliverable abstract
<p>The deliverable intends to present an overview of the dissemination and communication activities conducted since the start of the project until month 18 of the project, that is half of the project duration. The report lists the communication tools the consortium created and used to achieve communication objectives agreed at the beginning of the project in a dedicated strategy (cf. <i>D1.3 Dissemination and Exploitation plan</i>). It is also a state of play of communication activities implemented so far by the partners in order to ensure a good dissemination and communication of the GROOM II project.</p>

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List of Abbreviations

Argo	Scientific international programme for ocean observation using a fleet of robots
ASV	Autonomous Surface Vehicle
AUV	Autonomous Underwater Vehicle
EC	European Commission
EECP	European Cluster Collaboration Platform
EMBRC	European Marine Biological Resource Centre
EMODnet	European Marine Observation and Data Network
EMSO	European Multidisciplinary Seafloor and water column Observatory
EOOS	European Ocean Observing System
EuroArgo	European contribution to the Argo Programme
GERI	Glider European Research Infrastructure
GOOS	Global Ocean Observing System
IOC	Intergovernmental Oceanographic Commission
IMOS	Integrated Marine Observing System
IOOS	Integrated Ocean Observing System
JCOMM	Joint Technical Commission for Oceanography and Marine Meteorology
JERICO	Joint European Research Infrastructure of Coastal Observatories: Science, Service, Sustainability
MRI	Marine Research Institute
MS	Member States
OCG	Observations Coordination Group
R&D	Research & Development
SME	Small and Medium Enterprise
WP	Work Package

DISCLAIMER

The contents of this publication are the sole responsibility of ARMINES and PMM-TVT and do not necessarily reflect the opinion of the European Union.

1. Background and context

1.1. GROOM II PROJECT

Underwater and surface drones, in particular gliders, have become essential vehicles to carry scientific payloads for most environmental observations from the surface down to 6000 m and for activities supporting the blue economy. Their major advantages are being mobile, steerable, persistent and usable in large numbers and at relatively low costs. However, the distributed infrastructure required to exploit these assets must be able to meet different demands from research and monitoring of the marine environment to public service missions and industry needs, requiring customised payloads and operations. The rapid evolution of such technologies (robotics, artificial intelligence, sensors, big data) requires that the R&D resources offered by this distributed infrastructure continuously adapt to users' demands.

The complex hardware and information technology characteristics of such a distributed European infrastructure, optimizing access to resources and R&D for gliders, were analysed during the GROOM-FP7 design study from the perspective of research and the Global and (future) European Ocean Observing System (GOOS & EOOS) needs. Since then, several "gliderports" have developed which has fostered a corresponding European industrial innovative sector.

GROOM II, building on its predecessor, will deliver the decision basis for an advanced Marine Research Institute (MRI) that promotes scientific excellence, fosters innovation, support the blue economy, builds industrial and public partnerships, and works towards helping achieve the common research and innovation mission for future Europe. The project will define the overall organization of an infrastructure dedicated to ocean research and innovation, and maritime services supporting Blue Growth: The Glider European Research Infrastructure (GERI).

This infrastructure will be a positive step against today's fragmented European landscape, aiding connections, and synergies for the completion of GOOS and EOOS.

1.2. DISSEMINATION STRATEGIC APPROACH

1.2.1. Awareness raising and dissemination objectives

The overall objective of the awareness raising and dissemination activities is to ensure a systemic dissemination and promotion of the project's activities among all stakeholders. GROOM II carries out outreach activities targeted to different stakeholders (decision-makers, industries, general public) in order to increase the general understanding of the importance the oceans have for the sake of mankind.

The specific objectives of the dissemination approach are:

- To undertake actions that will pave the way to broad dissemination of the project activities/results;
- To set up and maintain the project website for public dissemination and information;
- To create the good conditions to facilitate the interactions with the stakeholders and their involvement in GROOM II activities.

A strong effort is invested towards clear and effective dissemination and exploitation activities in order to ensure that, during the course of the project and by the end of the project, the results have gained maximum awareness and momentum at the necessary national, European and international levels.

The dissemination and exploitation activities involve all partners and all WPs. A particular focus is associated with each WP:

- WP1: general outreach and promotion of all WP results with funding bodies, policy agencies and other stakeholders;
- WP2: training and education, country/MRI/stakeholder engagement;
- WP3: organisational and financial models discussed with funding bodies and policy agencies;
- WP4: GERI services for bridging research and sustained ocean observing needs at global, international, European and MS levels promoted through EuroGOOS, the Marine Board and peer-reviewed communications to the scientific community;
- WP5: GERI services for research and industry, market analysis promoted to industry building community relationships;
- WP6: exploitation of technical and scientific results and peer-reviewed communications on outcomes.

1.2.2. Targeted stakeholders

The dissemination strategy is organised around several activities, spanning from research to business-oriented activities, up to social and societal presence. GROOM II envisions disseminating its results towards the following organisations:

- **Funding/Policy agencies** at national and European levels: organisation of, and participation in, workshops; establishing and maintaining channels of dialogue; supplying succinct reports, key messages and promotional materials; building from and following up the key milestone of the OceanObs 19 conference (WP1 and WP4).
- **Industry stakeholders:** formation of an Industry Advisory Group for Gliders (WP5) to provide a channel for the business community; building on past initiatives (H2020 GROOM/ BRIDGES projects) to develop market services and applications for gliders and possibly other AUVs/ASVs; organisation of national workshops for local industry stakeholders and relationship building; development of exploitation strategies for the infrastructure (WP5) based on innovative glider and other AUV/ASV technologies (WP6); development of a network with the glider supplier community (SMEs) as a supporting part of the overall GROOM II infrastructure.

- **Wider scientific community:** scientific papers; conference presentations; participation and promotion in scientific communities including JCOMM OCG OceanGliders, EOOS, IOC Ocean Best Practices System; interaction and collaboration with related national, European and international research projects and infrastructures (JERICO, EMSO, EuroArgo, EMBRC, EMODNet, Seadatanet, Blue Cloud) and overseas equivalents (US/IOOS, AU/IMOS, Ocean Glider Canada, etc.)
- **The general public:** Generating awareness and promotion through an interactive website, active social media presence and media activity (articles, interviews); create and distribute project materials, logos, posters; monitor public interest (analytics) for improvements to citizen communications; explore opportunities for citizen science.

Given that the consortium is purposefully built with experts active in European glider activities at all levels and for many years, GROOM II capitalises on the opportunity to form a coordinated dissemination and exploitation approach to maximise the impacts of the project in line with other initiatives supported by other platform oriented marine infrastructures.

Target Group	Objective (s)	Key message(s)
Funding/Policy agencies	Endorsement of the GERI as an excellent tool to structure and boost European Maritime research.	The ambition of the GERI is to become world-class to better service research, ocean observation, and to favour innovation for new technologies, services and products for the maritime sectors, the Blue Economy and for the society in general.
Industry stakeholders	Financing Maritime Research by selling services to Industry and Defense stakeholders	Offers a cost-effective solution that is well equipped to satisfy the organization's needs
Scientific community	Encouraging new research, tap existing research to fulfill society needs of under sea ice and transition region between open ocean and coastal regions exploration	Structuring the European Maritime Research to create synergies, maximizing efficiency, and cutting on costs
General public	Raising awareness, visibility, and interest of Maritime Research	Enables the full exploration of oceans reuniting coastal and open ocean regions. Combining economic benefits of the ocean with preservation of the ecosystem using 'smart underwater robots.

Table 1 - Target groups

The communication message will be further tested and substantiated during the second half of the project, considering the state of knowledge and attitude about GROOM II with the various target-groups.

More detailed information on GROOM II Dissemination strategy can be found in D1.3 Dissemination and Exploitation plan.

1.2.3. A dedicated team: the dissemination committee

GROOM II consortium decided to define and mobilize a dissemination committee to ensure the most efficient project communication and dissemination. This Committee is responsible for establishing and implementing the exploitation and dissemination strategy and to manage any intellectual property issue.

During the first 18 months of the project, GROOM II consortium decided to extend the number of Dissemination committee members. Each partner nominated at least one responsible person, in charge of communication aspects. The current Dissemination Committee currently gathers the following partners:

Partner	Name	Email
ARMINES	Laurent Mortier	laurent.mortier@ensta-paris.fr
PMM-TVT	Charlène Aurégan	auregan@polemermediterranee.com
CSCS	Jerald Reodica	j.reodica@cyprus-subsea.com
CNRS	Pierre Testor	pierre.testor@locean.ipsl.fr
ARMINES	Kamil Szafranski	kamil.szafranski@ensta-paris.fr
FMI	Ulpu Leijala	ulpu.leijala@fmi.fi
GEOMAR	Johannes Kartensen	jkartensen@geomar.de
MI	Felicity Donnelly	felicity.donnelly@marine.ie
UPORTO	Marina Oliveira	marinaoliveira@fe.up.pt
UiB	Ailin Dale Brakstad	ailin.brakstad@uib.no
UGOT	Bastien Queste	bastien.queste@gu.se

Table 2 - Dissemination Committee members

Regular remote meetings have been organised to gather the dissemination committee and discuss communication activities, next steps and adaptation of existing tools to the project's evolution.

1.2.4. Monitoring of communication activities

In order to ensure the quality and high degree of effectiveness of the dissemination activities, monitoring the progress is needed to evaluate what has been accomplished and what is still to be done. Regular exchanges by emails occurred with the relevant partners to discuss about communication activities. GROOM II partners have reported to PMM-TVT any communication or dissemination activities they have been doing on their own using the communication materials developed by PMM-TVT.

2. Communication and dissemination tools

2.1. COMMUNICATION CHANNELS

Different dissemination channels are being used to inform about GROOM II activities to potentially concerned stakeholders, policy-makers, funding bodies, industrial and scientific communities and the general public. The table below presents the media that are mainly used for that purpose:

Target Group\Tools	EC	Research	Industry	General public	Policy makers	Funding Bodies
Website	X	X	X	X	X	X
Deliverables [confidential]	X					
Deliverables [public]	X	X	X	X	X	X
Technical-scientific publications		X	X			
Dedicated workshop		X	X	X	X	X
Congresses		X	X			
Trade shows			X		X	X
Social Media		X	X	X		
Posters, Flyers		X	X	X	X	X
Printed and online press		X	X	X	X	

Table 3 - Media used per target group.

2.2. PROJECT WEBSITE

The website is online since June 23rd 2021, at the following address: <https://www.groom-h2020.eu/> . The website is the project's showcase for a broad audience to get information and updates about the project activities.

Based on the inputs from the Dissemination Committee and under the supervision of the partners in charge of the activities (ARMINES and PMM), the detailed content has been and will continue to be updated throughout all the operational phases of the project.

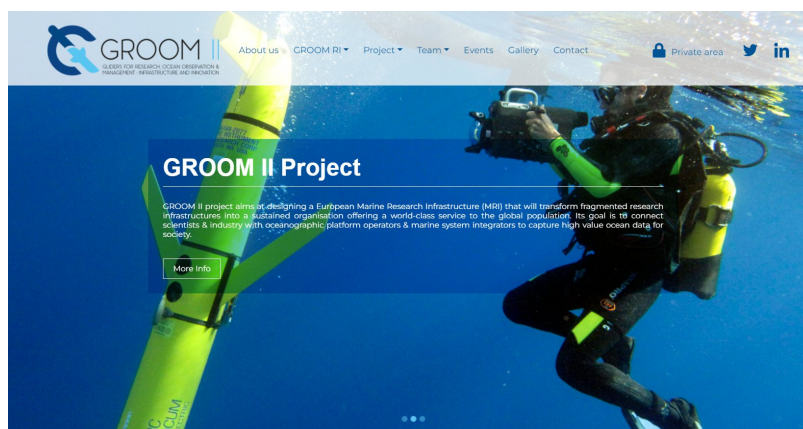


Figure 1 - GROOM II Website - Home page

The website is currently made of 7 categories of pages:

- About us;
- GROOM RI;
- Project;
- Team;
- Events;
- Gallery;
- Contact;

It includes a section restricted to the project participants. On top of email and phone communication, this private area is a day-to-day working platform where the consortium exchanges and work on any scientific or technical document (deliverables, reports) that is needed for the project.

The project website is used to disseminate project news and results to possible end-users, stakeholders, and the public at large.



Figure 2 - GROOM II Website: Home page (2)

2.3. COMMUNICATION MATERIALS

2.3.1. Project branding and visual identity

The GROOM II branding have been designed to maintain graphical coherence in all the publications/ tools produced within the project. It contains all the basic rules on the use of the graphics which constitute the GROOM II graphic identity.

- The logo: its colours, its positioning, its proportions, its variations on white and coloured backgrounds etc. The graphic charter is detailed in annex1



Figure 3 - GROOM II logo (vertical and horizontal)

- The templates for deliverables, project presentations, press releases etc. (Word; PowerPoint). They were prepared and distributed to all partners for their project official deliverables, as well as for their presentations during public meetings, conferences and events. The same templates are used for internal coordination meeting. Templates are showcased in annex 2 and 3 in detail



Project acronym: GROOM II
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 Grant agreement no: 951842

D.X.X
Name of the deliverable

Due delivery date: M...
 Actual delivery date:

Organization name of lead participant for this deliverable:

Dissemination level	
PO	Public
OO	Confidential, only for members of the consortium

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 951842

Figure 4 - Examples of templates templates

2.3.2. Brochure

GROOM II Dissemination Committee decided to produce a brochure instead of flyers, to convey a more detailed message. The brochure has been designed by PMM-TVT (please see Annex 3). It contains overall information as a brief description of GROOM II, its objectives and partners. It is distributed at events attended by the consortium partners and shared with the people met in order to increase the project's visibility and expand the network of contacts. This document can be easily updated when needed for specific events and/or for different target groups.

The final number of hard copies will depend on the events at which it will be available.



Figure 5 – GROOM II Brochure

2.3.3. Press release #1

The first press release was distributed in July 2021. It is available in annex 5. It was published to announce the website launch and to invite stakeholders and partners networks to visit the website and learn more about the project.



Figure 6 - GROOM II Press Release #1

2.3.4. Social media

In order to be visible and attractive, GROOM II project has to be known on social media. Two channels have been chosen to show and share project's activities: Twitter and LinkedIn. These channels are of key importance to share catching messages for rapid dissemination purposes. They also allow a virtual dialogue with relevant stakeholders, including relevant projects/initiatives. The aim will be to drive traffic towards the website and promote activities.

PMM-TVT is in charge of the social media accounts of the project. Dissemination Committee partners have also participated in providing content.

To increase the visibility of GROOM II and other Research infrastructures, PMM uses [the Communication Standards Toolkit](#) developed by RI-VIS project. This tool-kit presents a harmonised communication strategy for European research infrastructures.

TWITTER ACCOUNT

A Twitter account @Groom2RI has been created for GROOM II project in April 2021. The direct link to the account is: <https://twitter.com/Groom2RI>

Until March 2022, 68 Tweets (own and re-tweets) have been posted, generating 154 re-tweets and 389 likes. So far, the account has attracted 153 followers.

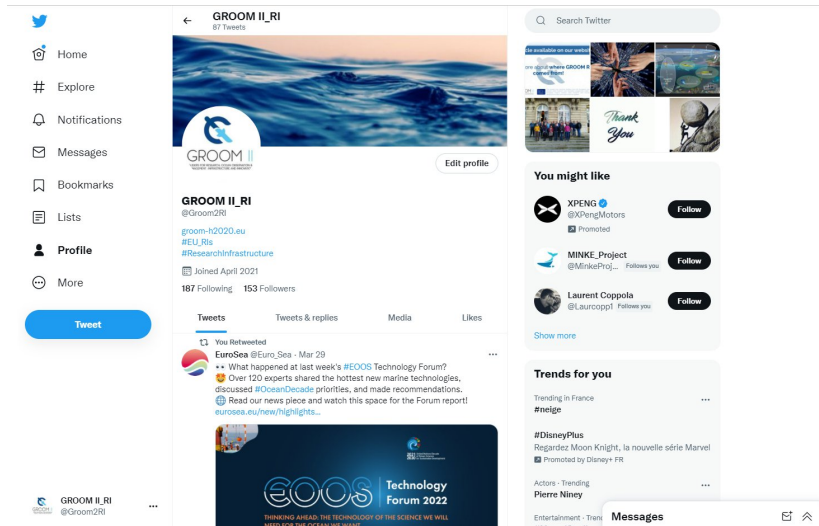
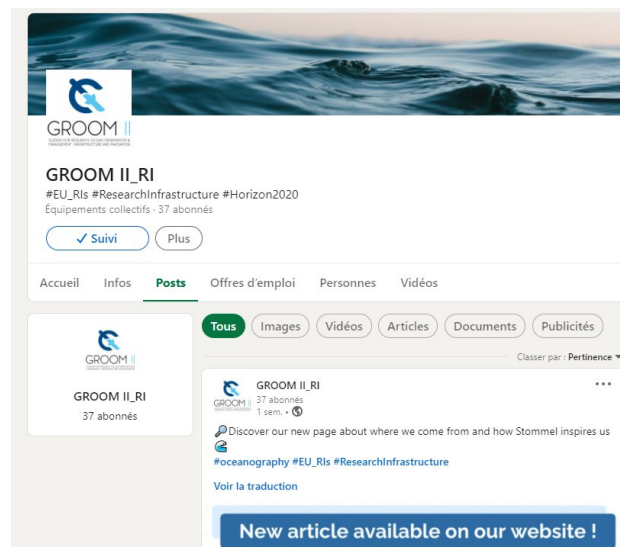


Figure 7 - GROOM II Twitter account

LINKEDIN ACCOUNT

PMM-TVT has created a LinkedIn page for GROOM II project. It has given the opportunity to exchange about GROOM II activities and to increase the project visibility. To date, GROOM II LinkedIn page has 37 followers.



2.3.5. Personal communication – Emails and phone

One of the primary means of stakeholder outreach has been done via e-mail to inform interested persons and/or organisations about events and activities. Email has been used to distribute the electronic newsletters and any other relevant information to all stakeholders to draw attention to GROOM II highlights. The telephone has also been used as it remains a quick and easy means of contacting stakeholders, especially IAG Members.

As of now, 36 bilateral contacts have been made with stakeholders. The detail of these communications is available in Annex 4.5.

3. Communication and dissemination activities

3.1. WEB ACTIVITIES

GROOM II Website is animated by PMM-TVT, with contributions of the Dissemination committee. It has been designed as the showcase of the project activities relevant for all GROOM II categories of stakeholders, such as industrials and researchers but also all actors having an interest in GROOM II activities (public authority, general public). It is updated on a regular basis, according to the project progresses.

The website presents:

- The evolution of the design of the future GROOM RI
- The structure of GROOM II project
- GROOM II partners
- External events
- Gallery

The statistics show the significant and growing activity on the website :

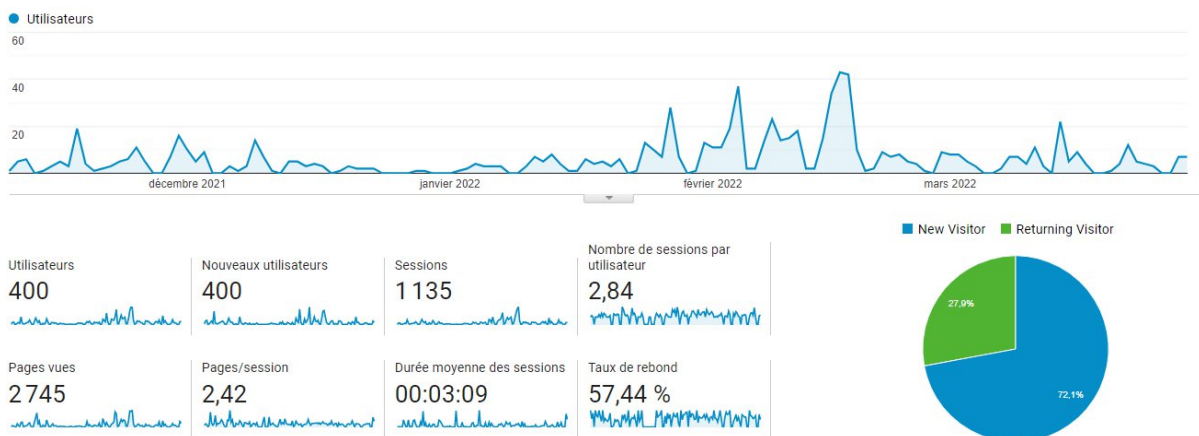


Figure 8 - Website overall statistics

The figure above demonstrates the significant impact of the website in GROOM II project communication from November 2021 to March 2022, with 400 users. These users have launched 1135 sessions on the website for a total of 2745 pages viewed.

Peaks of visits in February 2022 are explained in particular by the General Assembly and accompanying workshops organised by GROOM II. Indeed, all the information regarding the content and possibility to attend this event were available and detailed on the website.

3.2. EXTERNAL EVENTS AND WORKSHOPS

GROOM II partners are responsible for promoting the project. Therefore, they participate to events presenting the project and its opportunities to various public. GROOM II project has been represented in 17 events, as speaker or participant. The following table summarises the events where GROOM II has been represented:

Event	Participation type	Date
Eurofleets+ 1st International Workshop 'Fixed and mobile ocean observing systems and satellite observation'	Presentation	April 13th, 2021
EUMR workshop organized by Jan Operbecke	Presentation	April 15th, 2021
Atlantic Observatory Workshop	Presentation	April 29th 2021
EuroGOOS conference	Presentation	May 5th, 2021
OceanGliders Best Practices Workshop	Presentation	May 11th, 2021
CATEC Jornadas Sistemas No Tripulados en el Sector Naval y Offshore	Presentation	May 12th 2021
OceanGliders Best Practices Workshop: Linkage and Closing	Presentation	May 18th-25, 2021
EUMR "All Atlantic" Ministerial side event	Presentation	June 2nd, 2021
Africa GOOS Webinar - Oral presentation on glider technology, ocean observing applications and flagship initiatives in EU	Presentation	June 8th 2021
MARTECH 2021 - Oral presentation on glider technology, ocean observing applications and flagship initiatives in EU	Presentation	June 16th 2021
Blue Tech Webinar - Oral presentation on glider technology, ocean observing applications and flagship initiatives in EU	Presentation	July 28th 2021
Summer School on Autonomous Systems and Collaborative Marine Operations	Presentation	August 23rd 2021
Operational monitoring using ocean gliders"	Presentation	8th - 9th September 2021
OCEANS 2021 MTS	Presentation	September 21th 2021
Ocean Business 2021 - THE HANDS-ON OCEAN TECHNOLOGY EXHIBITION AND TRAINING FORUM	Participation	October 13th 2021
MATS 2021 - Marine Autonomy and Technology Showcase	Presentation and participation	November 9th 2021
JERICO-DS general assembly	Presentation	November 18th, 2021

Table 4 - List of relevant events GROOM II partners participated to

3.3. PERFORMANCE INDICATORS

The table below presents a non-exhaustive list of indicators that will be used to monitor and measure the communication and dissemination performance. These objectives are shared by the consortium members.

Indicators	Type	Measure	State of completion
Website	Quantitative	1	Achieved
Analysis of the website impact (n° of visits)	Quantitative	3000	On-going 1 135
Evidence of debates and discussions in the social media	Qualitative	Frequency of publications	On-going 68 tweets
Number of followers in the social media	Quantitative	200	On-going 153 (TW) and 37 (LI)
Number of articles in the press (online/paper)	Quantitative	10 to 15	To be done 0
Number of people asking for feedback or more information	Quantitative	Minimum 100	On-going 36
Presentations in conference	Quantitative	5 to 10	Achieved 15
E-newsletter	Quantitative	3	To be done
Posters/ Flyers/ Roll-up	Quantitative	1 of each	On-going Poster and roll-up to be done Flyers done
Participation in dedicated workshops, trade shows, congresses	Quantitative	At least 10	On-going 2

Table 5 - Performance indicators

4. Annexes

4.1. ANNEX 1 – GRAPHIC CHARTER



Logo to be used with a **dark** background



Logo to be used with a **light** background

Rules



The logo shall not be modified or deformed in any way



Typography



RALEWAY			
BOLD	ABCDEFGHIJKLMNOPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz 1234567890	REGULAR	ABCDEFGHYJKLMNQPQRSTUVWXYZ abcdefghyijklmnopqrstuvwxy 1234567890
MEDIUM	ABCDEFGHYJKLMNQPQRSTUVWXYZ abcdefghyijklmnopqrstuvwxy 1234567890	LIGHT	ABCDEFGHYJKLMNQPQRSTUVWXYZ abcdefghyijklmnopqrstuvwxy 1234567890

Bullet points



- ☛ ABCDEFGHYJKLMNQPQRSTUVWXYZ abcdefghyijklmnopqrstuvwxy 1234567890
- ☛ ABCDEFGHYJKLMNQPQRSTUVWXYZ abcdefghyijklmnopqrstuvwxy 1234567890
- ☛ ABCDEFGHYJKLMNQPQRSTUVWXYZ abcdefghyijklmnopqrstuvwxy 1234567890
- ☛ ABCDEFGHYJKLMNQPQRSTUVWXYZ abcdefghyijklmnopqrstuvwxy 1234567890
- ☛ ABCDEFGHYJKLMNQPQRSTUVWXYZ abcdefghyijklmnopqrstuvwxy 1234567890
- ☛ ABCDEFGHYJKLMNQPQRSTUVWXYZ abcdefghyijklmnopqrstuvwxy 1234567890

A list of bullet points is available: chose one bullet point per level of idea. It is not necessary to use all the bullet points, and you can chose more traditional ones if you wish so.

Templates



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D.XX
Name of the deliverable

Due delivery date: 14...
Actual delivery date:

Organization name of lead participant for the deliverable: _____

IP	Topic	Responsible lead
IP		
IP		

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 951842

Deliverable overview

Work Package

Activity / sub-activity name

Version	Date	Change reason	Responsible

Deliverable abstract

The deliverable needs to contain the deliverable abstract to include a concise, readable description of the project and to include details, such as aims and knowledge generated in respect of project work and dissemination strategy and activities related to the project domain. It provides information about the format and deliverable description and the content.

The abstract is prepared at an early stage, normally in an abstracting workshop.

- What is the objective of the deliverable?
- What is the main objective of the deliverable?
- How is the deliverable being used and distributed?

When producing a deliverable or a power point presentation, you may use the templates provided. They are available on both Google Drive and Dokuwiki.



For more information :

- ✉ contact@groom-h2020.eu
- ✉ Twitter : @GROOM2RI
- ✉ www.groom-h2020.eu



4.2. ANNEX 2 – DELIVERABLE TEMPLATE



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GROOM II – GA N° 951842

D1.3 Dissemination and Exploitation Plan

Deliverable number	
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Author(s) – in alphabetical order	

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Deliverable abstract
<p>The deliverable intends to present the overall strategy dedicated to raising awareness, engaging stakeholders, promoting the project and its related results, achievements and knowledge generated of GROOM II project. A sound dissemination strategy will be put in place via different networks related to the project domains. It provides information about the planned and performed dissemination activities within project.</p> <p>The document is prepared at an early project stage (Month 6) and addresses the following issues:</p> <ul style="list-style-type: none"> • What are the objectives of the dissemination effort? • Who is particularly affected by GROOM II project? Who would be interested to know about the outcomes? • What is the most effective way to reach the stakeholders? • How to measure the efficiency of the Awareness raising and dissemination plan?

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 - 2.2. SECOND LEVEL OF TITLE 6



GROOM II – GA N° 951842

D1.3 Dissemination and Exploitation Plan

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List of Abbreviations

Argo	Scientific international programme for ocean observation using a fleet of robots
ASV	Autonomous Surface Vehicle
AUV	Autonomous Underwater Vehicle
EC	European Commission
EECP	European Cluster Collaboration Platform
EMBRC	European Marine Biological Resource Centre
EMODnet	European Marine Observation and Data Network
EMSO	European Multidisciplinary Seafloor and water column Observatory
EOOS	European Ocean Observing System
EuroArgo	European contribution to the Argo Programme
GERI	Glider European Research Infrastructure
GOOS	Global Ocean Observing System
IOC	Intergovernmental Oceanographic Commission
IMOS	Integrated Marine Observing System
IOOS	Integrated Ocean Observing System
JCOMM	Joint Technical Commission for Oceanography and Marine Meteorology
JERICO	Joint European Research Infrastructure of Coastal Observatories: Science, Service, Sustainability
MRI	Marine Research Institute
MS	Member States
OCG	Observations Coordination Group
R&D	Research & Development
SME	Small and Medium Enterprise
WP	Work Package

DISCLAIMER

The contents of this publication are the sole responsibility of ARMINES and PMM-TVT and do not necessarily reflect the opinion of the European Union.

1. Background and context

Underwater and surface drones, in particular gliders, have become essential vehicles to carry scientific payloads for most environmental observations from the surface down to 6000 m and for activities supporting the blue economy. Their major advantages are being mobile, steerable, persistent and usable in large numbers and at relatively low costs. However, the distributed infrastructure required to exploit these assets must be able to meet different demands from research and monitoring of the marine environment to public service missions and industry needs, requiring customised payloads and operations. The rapid evolution of such technologies (robotics, artificial intelligence, sensors, big data) requires that the R&D resources offered by this distributed infrastructure continuously adapt to users' demands.

The complex hardware and information technology characteristics of such a distributed European infrastructure, optimizing access to resources and R&D for gliders, were analysed during the GROOM-FP7 design study from the perspective of research and the Global and (future) European Ocean Observing System (GOOS & EOOS) needs. Since then, several "gliderports" have developed which has fostered a corresponding European industrial innovative sector.

GROOM II, building on its predecessor, will deliver the decision basis for an advanced Marine Research Institute (MRI) that promotes scientific excellence, fosters innovation, support the blue economy, builds industrial and public partnerships, and works towards helping achieve the common research and innovation mission for future Europe. The project will define the overall organization of an infrastructure dedicated to ocean research and innovation, and maritime services supporting Blue Growth: The Glider European Research Infrastructure (GERI).

This infrastructure will be a positive step against today's fragmented European landscape, aiding connections, and synergies for the completion of GOOS and EOOS.

4.3. ANNEX 3 – POWER POINT PRESENTATION TEMPLATE




TITLE OF YOUR EVENT

SUBTITLE OF YOUR EVENT

Date and place



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 951842.



AGENDA/OUTLINE

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I. TITLE OF THE SECTION

TITLE OF THE SLIDE



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Picture

THANK YOU FOR YOUR ATTENTION !

For more information :

- ☛ contact@groom-h2020.eu
- ☛ Twitter : @GROOM2RI
- ☛ www.groom-h2020.eu





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Paras na Mara **MEDITERRANÉE**

4.4. ANNEX 4 – BROCHURE

The ocean observing value chain: a need for cooperation

Marine robots are widely used for ocean observation, marine research, & increasingly by private companies. This sector is quickly growing thanks to the rapid evolution of marine robotics & sensing technologies and the increasing demand of services - both in numbers & variety. The operation of these vehicles relies on a network of research infrastructures (RIs) distributed all around Europe.

GERI ensures optimized operation of marine robots opening up opportunities for the Blue Economy's innovative sectors.

Research

Exploring the deep ocean, unveiling the infinite complexity of marine biology, and understanding the ocean processes controlling the climate system are some of the 21st century's major challenges for marine research. Only numerous marine robots complementing other platforms can meet these challenges by providing the appropriate observations.



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GROOM II

GLIDERS FOR RESEARCH, OCEAN OBSERVATION & MANAGEMENT : INFRASTRUCTURE AND INNOVATION

This project has received funding from the European Union's Horizon 2020 research and innovation programme under the European Union's Horizon 2020 research and innovation programme under grant agreement No 951842







Commercial applications & emerging markets


The Glider European Research Infrastructure (GERI) is a distributed architecture of nodes around Europe that operate marine robots for ocean observing.

With a central hub granting access, the nodes share their excellent services (ocean observations, technological support & training) to reduce costs.

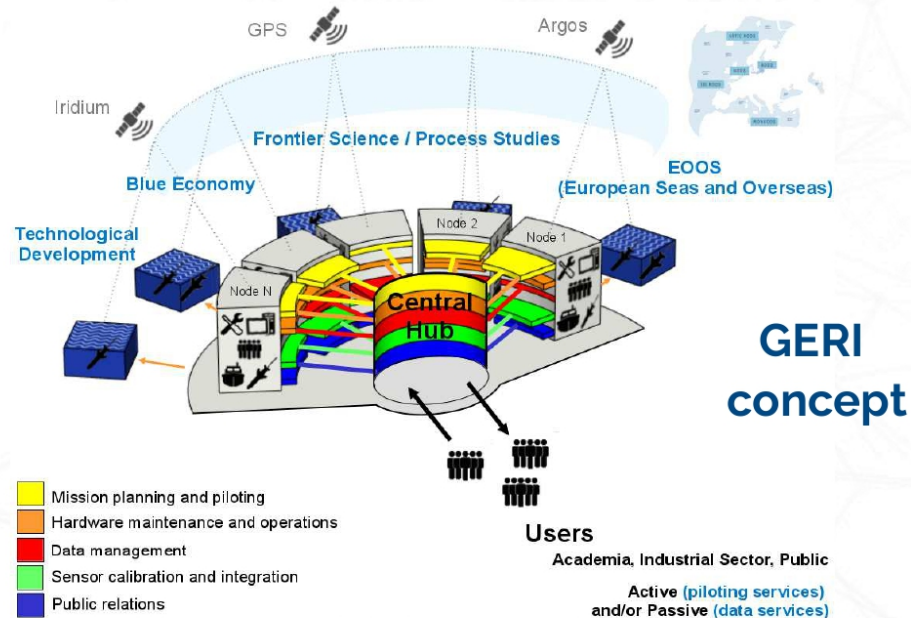
The MRI also serves emerging markets and well-established industries. In addition to collecting essential marine data for commercial purposes, GROOM II Project Partners are developing bespoke innovative services for the private sector.

Our network is also exploring the possibilities of providing new marine robotic services for commercial applications in the fields of:

-  Subsea infrastructure inspection
-  Marine environmental emergency response
-  Offshore marine surveys
-  Maritime and shipping management
-  Maritime border security
-  Deep seabed mining

 Let's connect to discuss your marine or maritime commercial application.

GROOM II The Glider European Research Infrastructure



The Glider European Research Infrastructure (GERI)

The Glider European Research Infrastructure (GERI) is a distributed architecture of glider ports around the European seas and overseas. Working in close coordination to effectively operate fleets of gliders, the GERI will also coordinate with other MRI and observing platform.

Overview

			
34 glider ports	14 partners 17 countries	150 USV and gliders	100 Full time equivalent

4.4.1. Annex 5 – Press release #1

**PRESS RELEASE N°1**

July 2021






GROOM II project consortium is delighted to announce that its website has been launched! To know more about our project's objectives, activities, and opportunities, visit: <https://www.groom-h2020.eu/>

GROOM II – Gliders for Research, Ocean Observation and Management: Infrastructure and Innovation

This project aims at designing a European Marine Research Infrastructure (MRI) that will transform fragmented research infrastructures into a sustained organisation offering world-class services to the global population.

GROOM II: a European Research Infrastructure

GROOM II is funded by the European Commission under the Horizon 2020 programme. The project started in October 2020 and ends in September 2023. It gathers 14 partners from 12 countries.

			
Consortium	Budget	Duration	Project Beginning
14 partners	3 075 037,50€	36 months	October 2020
12 countries			



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 951842.

GROOM II website: a window of opportunities!

Our website is designed for a wide variety of stakeholders: from the general public to scientists and industry. We adapted our content to ensure that you make the best use of our budding Marine Research Infrastructure and excellent services.

The **general public** will get to know more about the use of gliders for ocean observation.



Read our [Context](#) page which gives general information about ocean's health, marine robotics and gliders. If you are curious about gliders, have a look at our [Gallery](#) too!

Scientists and researchers will learn more about the Research Infrastructure that GROOM II project is currently designing. In addition, information about international events featuring marine robotics and ocean observation will be posted periodically.



Visit our [Activities](#) and [News](#) pages regularly, as well as our social media!

Industry will be invited to participate in GROOM II activities and provide input so that the future Research Infrastructure is adapted to your needs as well as those of scientists!



Follow our [Activities](#) and [News](#) pages regularly and to [contact us](#) if you are interested in joining us !

More information:



GROOM ILRI



@Groom2RI



contact@groom-h2020.eu



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 951842.

4.5. COMMUNICATION ACTIVITIES FOLLOW UP

Date	Type of activities	Description of the activities performed	Quantitative information	Website if any
April 13th, 2021	Presentation in event	Eurofleets+ 1st International Workshop 'Fixed and mobile ocean observing systems and satellite observation'	140	
April 15th, 2021	Presentation in event	EUMR workshop organized by Jan Operbecke	40	
April 29th 2021	Presentation in event	Atlantic Observatory Workshop - Oral presentation on glider technology and flagship initiatives in EU	Virtual event / 30 attendees	NA
May 5th, 2021	Presentation in event	EuroGOOS conference (morning session)	500	
May 5th, 2021	Presentation in event	EuroGOOS side event on Marine Research Infrastructure	100	
May 11th, 2021	Presentation in event	OceanGliders Best Practices Workshop: Kick off	150	https://eurosea.eu/download/oceangliders-best-practices-workshop-may-2021/?wpdmdl=3581&refresh=6231e869b63be1647437929
May 12th 2021	Presentation in event	CATEC Jornadas Sistemas No Tripulados en el Sector Naval y Offshore - Oral presentation on glider technology and flagship initiatives in EU	Virtual event / 60 attendees	https://www.clusternavalcadiz.es/wp-content/uploads/2021/04/PROGRAMA-Jornada-Drones-1.pdf
May 18th, 2021	Presentation in event	OceanGliders Best Practices Workshop: Linkage	150	
May 25th, 2021	Presentation in event	OceanGliders Best Practices Workshop: Closing	150	
June 2nd, 2021	Presentation in event	"All Atlantic" Ministerial side event organized by EUMR	50	
June 8th 2021	Presentation in event	Africa GOOS Webinar - Oral presentation on glider technology, ocean observing applications and flagship initiatives in EU	Virtual event / 100+ attendees	

June 16th 2021	Presentation in event	MARTECH 2021 - Oral presentation on glider technology, ocean observing applications and flagship initiatives in EU	Virtual event / 40+ attendees	https://sarti.webs.upc.edu/martech/
July 28th 2021	Presentation in event	Blue Tech Webinar - Oral presentation on glider technology, ocean observing applications and flagship initiatives in EU	Virtual event / 60+ attendees	https://www.mtsociety.org/index.php?option=com_jevents&task=icalrepeat.detail&evid=26&Itemid=182&year=2021&month=07&day=28&title=opportunities-in-spain-blue-tech-and-the-canary-islands&uid=e64dae327fc7b51366334a94ce18bc4b
August 23rd 2021	Presentation in event	Summer School on Autonomous Systems and Collaborative Marine Operations - Oral presentation on glider technology, ocean observing applications and flagship initiatives in EU	On-site event / 30+ attendees	
8th - 9th September 2021	Presentation during "The 1st Hamburg Marine Survey Sessions" Event	Presentation titled: "Operational monitoring using ocean gliders"	1	https://www.nicola-offshore.com/post/slide-show-looking-back-at-the-1st-hamburg-marine-survey-sessions
September 21th 2021	Presentation in event	OCEANS 2021 MTS - Oral presentation on ocean vehicles technology, ocean observing applications and flagship initiatives in EU	On-site event / 50+ attendees	https://global21.oceansconference.org/
October 13th 2021	Presentation in event	Ocean Business 2021 - THE HANDS-ON OCEAN TECHNOLOGY EXHIBITION AND TRAINING FORUM	On-site event / 800+ attendees	https://www.oceanbusiness.com/
November 9th 2021	Presentation in event	MATS 2021 - Marine Autonomy and Technology Showcase	On-site event / 70 attendees	https://noc-events.co.uk/mats-2021
November 11th, 2021	Presentation in event	MATS 2021	250	https://noc-events.co.uk/mats-2021
November 18th, 2021	Presentation in event	JERICO-DS general assembly	80	

Table 6 - Communication activities follow up.

4.6. PERSONAL COMMUNICATION FOLLOW-UP

Date	Type of activities	Contact Person and organisation	Quantitative information	Type of organisation
10 May 2021	Email	Didier Clec'h - RBR	Industrial needs and project awareness	SME
13-14 October 2021	Chat at Ocean Business	Valentin Hanss - Teledyne	Leaflet shared	SME
	Chat at Ocean Business	David Diaz - Alseamar	Leaflet shared	SME
	Chat at Ocean Business	Mr Green - Huntington	Leaflet shared	SME
	Chat at Ocean Business	Pier Fietzek - Kongsberg	Leaflet shared	SME
	Chat at Ocean Business	Romain Tricarico - Rockland	Leaflet shared	SME
	Chat at Ocean Business	RT-SYS	Leaflet shared	SME
	Chat at Ocean Business	Ocean Infinity	Leaflet shared	SME
22 November 2021	Chat at 'Océan, nos réponses pour l'avenir' event	Christophe Prazuck - Maison des océans - Institut océanographique de Paris & Alliance Sorbonne University	Leaflet shared	Higher education and research
12 January 2022	E-mail and phone with Point de Contact National Infrastructures de recherche Horizon Europe	Amadou Mané - Point de Contact National Infrastructures de recherche Horizon Europe	3 participants	Public organisation
10-15 February 2022	Chat regarding the potential participation in the IAG MAS + email invitation	Alain Fidani - ECA Group	2 participants	Company (excl. SMEs)
15 February 2022	Email regarding the potential participation in the IAG MAS	Yve Lepage - Alseamar	2 participants	SME
15 February 2022	Email regarding the potential participation of iXBlue in the IAG MAS	Stéphane Vannuffelen - iXBlue	2 participants	SME
15 February 2022	Email regarding the potential participation in the IAG MAS	Yves Chardard	2 participants	SME
17 February	Request from Twitter (chat)	Dina Eparkhina - EuroGOOS	2 participants	Higher education and research

18th January 2022	Email	Peer Fietzek - Senior Business Development, Kongsberg	Invitation to IAG-MAS	industry
18th January 2022	Email	Cyril Giry - BU Manager, Neotek	Invitation to IAG-MAS	industry
18th January 2022	Email	Lionel Camus - Senior Scientist, Akvaplan-niva	Invitation to IAG-MAS	industry
18th January 2022	Email	David Peddie - CEO, Sailbuoy	Invitation to IAG-MAS	industry
19th January 2022	Email	Francois Leroy - Liquid Robotics (Boeing)	Invitation to IAG-MAS	industry
19th January 2022	Email	Thomas Mitchell, Ph.D VP, Operations SeaBird Electronics	Invitation to IAG-MAS	industry
19th January 2022	Email	Shane Goodenough - CEO Liquid Robotics (Boeing)	Invitation to IAG-MAS	industry
24th January 2022	Request from Twitter (chat)	Alex Alcocer - Oslo Metropolitan University	2 participants	Higher education and research
25th January 2022	Email	Ramsay Lind - Business Development Manager, Ocean Infinity	Invitation to IAG-MAS	industry
25th January 2022	Email	Trosten Linders - Coordinator, SCOOT	Invitation to IAG-MAS	industry
25th January 2022	Email	Atle Lohrmann - CEO, Hefring Engineering	Invitation to IAG-MAS	industry
25th January 2022	Email	Fritz Stahr - MRV Systems	Invitation to IAG-MAS	industry
25th January 2022	Email	Neil Bogue - MRV Systems	Invitation to IAG-MAS	industry
25th January 2022	Email	Christian Psarason - MRV Systems	Invitation to IAG-MAS	industry
25th January 2022	Email	Igor Martin - CEO, Hydromea	Invitation to IAG-MAS	industry
25th January	Email	Alexander Bahr - Hydromea	Invitation to IAG-MAS	industry

2022				
25th January 2022	Email	Felix Schill - Hydromea	Invitation to IAG-MAS	industry
25th January 2022	Email	Matthew Mowlem - CTO, Clearwater Sensors	Invitation to IAG-MAS	industry
25th January 2022	Email	Olle Peterson - Technical Operations Manager, Voice of the Ocean	Invitation to IAG-MAS	industry
25th January 2022	Email	Aidan Thom - Marine Robotics Business Development, Sonardyne	Invitation to IAG-MAS	industry
25th January 2022	Email	Fagner Magalhães - Business Manager, Ocean Pact	Invitation to IAG-MAS	industry
25th January 2022	Email	Mauricio da Rocha Fragoso - GM Prooceano	Invitation to IAG-MAS	industry
26th January 2022	Email	Martin Stemp - CEO, RS Aqua	Invitation to IAG-MAS	industry
10-15 February 2022	Chat regarding the potential participation of ECA Group in the IAG MAS + email invitation	Alain Fidani - ECA Group	2 participants	Company (excl. SMEs)
15 February 2022	Email regarding the potential participation of ALSEAMAR in the IAG MAS	Yve Lepage - Alseamar	2 participants	SME
15 February 2022	Email regarding the potential participation of iXBlue in the IAG MAS	Stéphane Vannuffelen - iXBlue	2 participants	SME
15 February 2022	Email regarding the potential participation of Subseatech in the IAG MAS	Yves Chardard	2 participants	SME

Table 7 - Personal communication follow up.