

Grant agreement nº: 101006798

Call identifier: MG-3-7-2020

## **Deliverable D8.1**

Dissemination and communication plan

# **Work Package 8**

Communication, dissemination and exploitation

**Document type** : Report **Version** : 4.0

**Date of issue** : 27/02/2021

**Dissemination level**: Public

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This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement nº 101006798.

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## **DOCUMENT HISTORY**

Version	Date	Changes	Stage	Distribution
1.0	14/01/2021	Table of contents and document structure	Draft	D_BLUE
2.0	11/02/2021	First draft	Draft	D_BLUE, AIMEN, BALANCE, NMTF
3.0	22/02/2021	Second draft adding the contributions from AIMEN	Draft	D_BLUE, AIMEN
3.1	26/02/2021	Third draft adding the contributions from the main participants	Draft	ALL
4.0	27/02/2021	Final version with minor revisions from LMS and the final check from D_BLUE and AIMEN	Final	EC

# **EXECUTIVE SUMMARY**

Mari4\_YARD is a European funded project that makes use of user-centric solutions for a flexible and modular manufacturing in small and medium-sized shipyards (SME), that need to remain competitive to avoid the drawback in their own market segments. The project has started in December 2020 and will last until the end of 2024. The communication of the progress of the project, and the dissemination of its results and findings are key activities of Mari4\_YARD. WP8 is entirely dedicated to dissemination, communication and networking (besides exploitation that is not addressed in this document). It spans the whole duration of the project (48 months) and will consist of a variety of actions strategically distributed along the four years of the project. This document represents the Plan for Dissemination and Communication which outlines the strategy for the entire project dissemination and communication activities.



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# **LIST OF ACRONYMS**

Table 1. Acronym

ACRONYM	DEFINITION
CORDIS	Community Research and Development Information Service
CSA	Coordination and Support Action
DIH	Digital Innovation Hub
DoA	Description of Action
DoW	Description of Work
EC	European Commission
EU	European Union
R&I	Research & Innovation
RTO	Research Technology Organisation
SME	Small and Medium-sized shipyards
TRIMIS	Transport Research and Innovation Monitoring and Information System
WP	Work Package

Mari4\_YARD D8.1



## 1 Introduction

# 1.1 Scope of the document

This document contains the Mari4\_YARD Plan for Dissemination and Communication. This is the first release which will be refined, adjusted and completed during the first two years of Mari4\_YARD, on the basis of the project evolution, the feedback received by the target audience and the changes in the project communication and dissemination needs. The intermediate versions of the plan will be provided at M18 (D8.8) and M36 (D8.9), while the final is planned to be delivered by the end of the project (D8.10).

## 1.2 Structure of the document

This document is structured as follows:

- » Section 2 provides an overview on the overall Plan for Dissemination, Communication and Community Building;
- » Section 3 focuses on the dissemination, communication and community building strategy, defining goals, target audience and communication approach. It also provides a preliminary dissemination programme and a set of measures to monitor the impact of dissemination actions.

# 2 THE MARI4\_YARD PLAN FOR DISSEMINATION, COMMUNICATION AND COMMUNITY BUILDING: OVERVIEW

Mari4\_YARD is a European funded project that makes use of user-centric solutions for a flexible and modular manufacturing in small and medium-sized shipyards (SME), that need to remain competitive to avoid the drawback in their own market segments. The project has started in December 2020 and will last until the end of 2024.

European shipbuilding leading edge relies in the complexity, quality, high level of customization, delivery time and lifecycle services of the vessels manufactured. But the process of technology globalization has advanced the technological capability of competitors that, sometimes, also benefit from lower labour costs.

In order to avoid a worsening of the already started competitive drawback, the SME-shipyards need to enhance their performance and competitive capability (cost, lead-time, quality), taking advantage of the latest developments within digital production: advanced robotics and co-bots, machine vision, internet of things, flexible production systems, 3D printing, supply chain integration across multiple sites, skills development and deployment strategies.

Therefore, novel holistic approaches capable of improving production performance of EU shipyards to remain competitive are needed. In this regard, the Mari4\_YARD project provides an EU-wide solution for addressing competitiveness of EU shipbuilding in a holistic perspective. Mari4\_YARD gives European shipbuilding companies the opportunity to keep the awareness of new technologies and practically testing them. Smart, flexible, eco-



friendly and robust solutions for new developments will be adapted to the requirements of SME shipyards and in order to implement a novel connected shipyard. Furthermore, improved working environment with innovative technology and greener image will increase the attractiveness of the maritime sector for the young generation and will contribute to reducing gender gap.

The communication of the progress of the project, and the dissemination of its results and findings are key activities of Mari4\_YARD. WP8 is entirely dedicated to dissemination, communication and networking (besides exploitation that is not addressed in this document). It spans the whole duration of the project (48 months) and will consist of a variety of actions strategically distributed along the four years of the project. This document represents the Plan for Dissemination and Communication which outlines the strategy for the entire project dissemination and communication activities.

The communication, dissemination and community building strategy, described in Section 2, is built upon four corner-stones:

- » Dissemination goals: it identifies and defines the expected impact and the ways to achieve it (see Section 3.1).
- » Target audience: it identifies the key-stakeholders of Mari4\_YARD, as well as their needs and interests towards the project (see Section 3.2).
- » Communication Approach: it defines ad-hoc communication products and selects the appropriate channels and means for each category of stakeholders in order to put in place "customer-oriented" communication actions, maximise their impact, and ensure the achievement of the goals set out (see Section 3.3).
- » Monitoring the impact: it identifies a set of indicators to monitor the progress of the various dissemination actions and measure their impact (see Section 3.5).



# 3 DISSEMINATION, COMMUNICATION & COMMUNITY BUILDING

This section describes the communication, dissemination and community building strategy, defining goals, target audience and communication approach. It also provides a preliminary dissemination programme and a set of indicators to monitor the progress of dissemination actions and measure their impact.

# 3.1 What? The Communication and Dissemination goals and Milestones

A clear identification and definition of the dissemination goals is the first key element for the production of an effective and successful communication strategy.

The overall communication and dissemination of Mari4\_YARD concerns a) the development of intuitive human-robot collaborative solutions, handheld and portable AR/MR tools for assisting shipyard workers and Al-assisted exoskeletons for reducing fatigue and physical stress, b) the implementation of a portfolio of worker-centric tools assisting in the execution of the labour intensive tasks by preserving industry-specific workers' knowledge and skills and c) the demonstration of the Mari4\_YARD approach at real-scale targeting both shipbuilding and retrofitting in SME-shipyards.

Mari4\_YARD aims to implement an effective **communication and dissemination strategy** through a clear identification of its primary stakeholders, targeted dissemination actions, the set-up and efficient use of its communication channels, and the adoption of a structured dissemination programme. Moreover, Mari4\_YARD aims to develop a **community building strategy** supported by the deployment of an online innovation and matchmaking platform accessible through the project website and the involvement of supportive partners.

Overall, Mari4\_YARD aims to achieve four high-level communication and dissemination objectives:

- 1. **Inform**, by promoting the project and its events and sharing relevant information on what's going on in the shipbuilding research community;
- 2. **Raise awareness**, by informing relevant stakeholders about the project activities, its progresses, findings and results;
- 3. **Engage**, by promoting the use of the projects results within the community, as well as involve them in order to receive feedback. Indeed, Mari4\_YARD will build a network of stakeholders among key EU industrial associations and clusters, with special attention to DIHs in the area of large structures efficient manufacturing. Among these stakeholders, potential supportive partners will be selected and engaged. To this end a specific space will be created in the Mari4\_YARD online community.
- 4. **Ensure impact**, in terms of guiding research policy and activities and thus ensuring the long-term impact of the MARI4\_YARD research. This is the most ambitious dissemination goal, aiming at ensuring the take-up by key decision-makers (e.g. EC, Certification and standardisation bodies, etc.) of the MARI4\_YARD findings and results.

The four goals stated above represent progressive steps and refer to a wide target audience. Each category of audience is linked to one or more goals and will be approached and engaged with targeted actions and appropriate sets of communication means.

Going more into detail, Mari4\_YARD aims to:



- 1. involve young minds into the development of advanced, flexible and smart manufacturing technologies and, specifically, related to digital and worker-centric solutions & tools, and their importance and impact onto the economy and society;
- 2. help promoting gender equality and integrating the gender dimension in research and innovation activities as well as promoting new gender-neutral career opportunities derived from project results;
- 3. attract qualified workforce and women to the sector;
- 4. achieve societal endorsement linked to research on digitisation due to their potential for contributing to overcome main societal challenges;
- 5. involve key industry sectors and players, potentially open to the adoption of Mari4\_YARD solutions and achieve their support to the project and to future initiatives linked with developing and improving worker-centric approaches. These interested stakeholders will be part of the Mari4\_Alliance;
- 6. contribute to the mobilisation of the European Research Area (ERA) for the adoption of Mari4\_YARD-generated knowledge and the development of new applications, enabling the full potential of the Mari4\_YARD approach;
- 7. raise awareness among EC/public authorities/policy makers fostering cooperation in the Mari4\_YARD long-term sustainability (funding opportunities), spreading the benefits of digital and smart manufacturing in shipbuilding and contributing easing the regulatory process.

# 3.2 Who? The Target Audience

The second key element for an effective and successful strategy is a structured and clear identification of the target audience, their characteristics, needs and main interests in the Mari4\_YARD activities. This is fundamental to be able to tailor the communication and ensure the achievement of the dissemination goals.

In the very initial phase of the project, dissemination will be focused in presenting the project to raise awareness among stakeholders (all target audiences). Following the generation of research outputs, it will be more focused to the scientific community, standardization organisations and key industry representatives. As the project progresses, dissemination will focus on presenting results related to Mari4\_YARD solutions (the whole solution and each of the subsystems and tools) through specific outreach activities to all audiences. By the end of the project, the focus will also be oriented towards industrial demonstration and the technology replication potential.

The Mari4\_YARD stakeholder base is particularly vast and it will increase during the project implementation. Indeed, one of the main goals of the project will be to build a community of interested stakeholders, that is the Mari4\_Alliance. The main target audiences of Mari4\_YARD Dissemination and Communication are:

## 1) Institutional bodies and policy makers:

- a) EU and EC: DG-INEA, DG-MOVE, JRC, DG-HOME, DG-Connect
- b) Certification and standardisation organisations: ISO, CEN, IEC, OPC, etc...
- c) National and regional bodies: National Ministries of Transport, Industry and Economic Development, National Agencies, Regional Governments

## 2) Specialised audience:

a) Scientific Community



- R&I institutes
- ii) Universities
- iii) Private research companies
- iv) Industry field labs
- b) ERA, the European Research Area and EEN, Europe Enterprise Network
- c) European Industry
  - i) Technology providers
  - ii) SME-shipyards (newbuilding and repair yards)
  - iii) Manufacturing services providers
  - iv) Industrial associations and EU initiatives/platforms: WATERBORNE, SEA Europe, EFFRA, I4MS, euRobotics, national shipbuilding associations throughout Europe, etc..
- d) Other EU-funded initiatives
- e) Industries and institutions outside Europe
- 3) **Supportive partners:** Mari4\_YARD will build a network of stakeholders (to be potentially selected as supportive partners) among key EU industrial associations and clusters, with special attention to DIHs, in the area of large structures efficient manufacturing. This activity will be dealt with in a dedicated task, T8.3.
- 4) General stakeholders:
  - a) Young minds
  - b) Women
  - c) Qualified workforce
  - d) General public

Each primary stakeholder has different characteristics, specific needs and interest into the project. Therefore, Mari4\_YARD will attempt to approach each of them with the most suitable communication means and contents in order to maximise the impact of its dissemination actions.

The following table shows Mari4\_YARD main targets and the related key messages and main communication actions.

Table 2. Mari4\_YARD target audience.

AUDIENCE	KEY MESSAGE	ACTIVITIES
Young Minds	Impact on youth daily life	Visits, media & didactic materials
General Public	Impact on jobs, energy, environ. & life quality	Press releases, articles, radio & TV, web, social media
Women	Career opportunities in smart manufacturing	Participation in the EU Platform of Women in Science, in STEM, etc.
Stakeholders	Project impact in manufacturing industry	Industry events
ERA	Mari4_YARD methodology	Project info in CORDIS & Open Access



EC, Authorities	Impacts on industry & citizens & existing	Presentation, briefings & fact sheets, and
& Policy Makers	barriers	participation in relevant events

Moreover, the following table shows a preliminary list of dissemination actions that will be carried out together with the related target audience and key message.

Table 3. Dissemination and Communication activities

ACTIVITIES	ТҮРЕ	AUDIENCE	KEY MESSAGE
Project website	vebsite		Objectives, activities, partners, videos
Project press releases & media appearance	Online presence	General stakeholders Institutional bodies and policy makers Specialised audience Supportive partners General stakeholders	Objectives, activities
Project in partners' web and/or social media		Industry	Objectives, news, etc.
Project Social Media		Institutional bodies and policy makers Specialised audience Supportive partners General stakeholders	Activities, news, partners, etc.
Project brochure/leaflet/newsletters	Project documentation	Institutional bodies and policy makers Specialised audience Supportive partners General stakeholders	Project objectives, activities, partners, public docs.
Online/offline/in-house training & materials on Mari4_YARD technologies and topics: IoT, Machine Learning, advanced manufacturing applications, robot programming, AR/MR, mobile robots, maritime technology, etc.	Event	Industry High-level education	Technology, knowledge and fundamentals, skills.
Mari4_YARD workshops & Final event		Industry General stakeholders	Results & key features



		Standardization organisations	
Scientific & technical articles: Robotics & Automation Magazine, Schiff & Hafen Magazine, Manufacturing Technology CIRP, Journal of Manufact. Science and Tech., IJIDeM, etc.	Project publication	Industry High-level education Scientific community	Results, knowledge and fundamentals
Presentations/lectures/posters in conf.: MARTEC, Transport Research Arena, MESIC, EMS Summit, Industry 4.0 Summit, euRobotics Forum, FAIM, ECMMM, IROS, ICRA, BIOROB	Project documentation	Scientific community High-level education Industry	Project contents, developments and results.
Participation in industrial events and fairs: Hannover Messe, Advanced Factories, AUTOMATICA, SPS, BIEMH, GlobalRobotExpo, Robomatica, SMM Hamburg, Europort, Seawork, Navalia, Euromaritime, Schiff&Hafen Conference		Industry General stakeholders	Mari4_YARD (results, services, network). Booths
Organisation of parallel project events: Hannover Messe, AUTOMATICA, SMM, etc.	Event	Scientific community Industry	Contents, benefits & opportunities
Networking/Clustering w/EU projects from FoF, ICT, MG and EU digit., manufact. & shipbuilding initiatives: AI4EU, I4MS, SAE, VANGUARD, etc.		Scientific community Industry General stakeholders Standardization organisations	Contents, results and opportunities
Open Access Repository	Project publication	Scientific community High-level education	Public datasets, results & information
Liaison and collaboration with standardization organisations: ISO/CEN/IEC/OPC Foundation	Project documennt	Standardization organisations	Info sharing and workshop
Presentations in EU Initiatives/platforms events: WATERBORNE, EFFRA, euRobotics, I4MS, etc.	Event	Industry General stakeholders	Project contents and results.
Promote Mari4_YARD results through EEN	Project publication	Industry	Results/opportunities



# 3.3 How? The Communication Approach

The identification of the most suitable approach is the next key step for a successful and effective communication, dissemination and community building strategy. To ensure the intended impact on the different categories of stakeholders, it is fundamental to create strong links between the dissemination goals and the target audience, and thus to select the type of information and contents to communicate together with the appropriate channels, means, products and formats.

## 3.3.1 The Mari4 YARD Visual Identity

The visual identity is the first key aspect for a clear, attractive, coherent and effective communication structure. The Mari4\_YARD visual identity it was initially developed during the proposal drafting; once funded it has been renewed in order to reinforce the concepts of construction, ship yard, connection, technology, Internet of things.

Based on this concept, a new identity proposal was developed, with two colour palettes. The two proposals (the one developed during the proposal drafting and the new one with the two different colours) are shown in Figures 1-2.

Version 2 of Proposal 2 (see ¡Error! No se encuentra el origen de la referencia.) was by far the most voted within the Mari4\_YARD Consortium.





Figure 1: Proposal 1 – visual identity developed during the proposal drafting











Figure 2: Proposal 2 – new visual identity (two colour palettes)

From a visual design perspective, the chosen proposal offers the possibility of developing a dynamic visual identity system with a number of recognizable variations of the logo, suitable for a variety of uses.

#### 3.3.2 Channels & Means

Based on the identification of the relevant stakeholders and their needs, various dissemination channels and means have been selected for the project dissemination. During the project, different mixes of means and channels will be used for different types of communication and for building the community of interested stakeholders and supportive partners. Each dissemination means is expected to have a different impact on the target audience and will be used appropriately to achieve the dissemination goals.

#### a. MARI4 YARD Website

The Mari4\_YARD website (still under construction) will be the main means of communication of the project, highlighting its objectives, vision, missions, activities and results. This is the channel were the MARI4\_YARD events will be advertised, the main news will be published, and the projects' public deliverables and reports will be uploaded.

The Mari4\_YARD website will use WordPress as Content Management System (CMS). This technical platform eases the management of contents and sections of the website. Furthermore, special attention will be given to the usability of the website, aiming to ensure user-friendliness and efficiency.

The website is intended for all categories of stakeholders. It will be updated on a regular basis with information on the progress of the project, its findings, results and events, and any other relevant news. The website will be connected to the project social networks (Twitter, LinkedIn and Youtube).

The website usage and accesses will be monitored with Google Analytics which allows to record various information, such as visitors, traffic sources, most viewed contents, etc. This is a helpful means to identify opportunities for improvement, increase the communication efficiency and evaluate the website impact and effectiveness.

#### b. Social Media

Mari4\_YARD will also use social media in order to create a community of interested stakeholders and supportive partners and ensure a broader dissemination of its findings and results, as well as exploitation of the developed solutions. In fact, social media applications allow to easily reach a wide range of people and ease the creation of



a proper community, grouping persons interested in receiving and exchanging information on the topics addressed by the project.

Mari4\_YARD has selected three social channels: Twitter, LinkedIn and Youtube. The reason of this choice is that they allow to get directly in touch with people, groups and other projects, without waiting for them to connect to the project (as it would be in Facebook).

LinkedIn is mostly intended for specialised audience and institutional bodies. Instead, Twitter aims to speak to specialised audience and general public. Youtube will be used to upload all the video materials developed during the project.

Twitter and LinkedIn will be used to disseminate articles and news published on the Mari4\_YARD website, to promote events, disseminate project findings and results, and to ensure constant connection with the related projects.

#### c. Other web channels

Mari4\_YARD aims to maximise the resonance of its findings and results. To do so, it intends to use any relevant existing channel. A selection of European portals was made and three channels were selected. These will be used from time to time for specific news and/or topics.

- » <u>CORDIS</u> (Community Research and Development Information Service): it is the European Commission's primary public repository and portal aimed at disseminating information on EU-funded research projects and their results. The website includes editorial content to support communication and exploitation (news, events, success stories, magazines, multilingual "results in brief" for the broader public). The area of potential for the Mari4\_YARD dissemination activities are:
  - The CORDIS News and Events: it allows to browse and find the latest news from EU-funded research projects and forthcoming events;
  - CORDIS Wire: it allows the research community to publish their own news and events (access to Wire requires a CORDIS account). Mari4\_YARD aims to make use of this channel to promote its events.
- TRIMIS (Transport Research and Innovation Monitoring and Information System): it supports the implementation and monitoring of the Strategic Transport Research and Innovation Agenda (STRIA) outlining future transport R&I priorities to decarbonise the European transport sector. TRIMIS has both Twitter and LinkedIn profiles. Mari4\_YARD will connect to these social channels in order to exploit their networks.
- » The <u>Research and Innovation area in the European Commission website</u>: it contains information about upcoming events. Mari4\_YARD plans to make use of it in order to advertise and promote its events.

The use of these channels will be coordinated with the European Commission, asking for support – if needed – to reach and interact with the channel "owners".

#### d. Videos, demos and interactive webinars

Several hand-on activities will be carried out during Mari4 YARD project. The main targets will be:

1. **Students**: in the initial phases of the project, since visits to universities and high-level education institutions will probably not be allowed due to COVID-19 pandemic, RTOs, as well as DIHs will be used to create a contact with universities. This channel will be held open throughout the project in order to



increase the reach. Specific material will be produced to disseminate the project results within the universities. At the same time, interactive virtual demo sessions will be carried out in order to attract students to the sector. They will be added to physical visits to increase the impact beyond the reach of physical visits to the "hot spot" locations where the Mari4\_YARD workshops will be held. Finally, gaming solutions will be investigated, if possible.

2. Potential qualified workforce/Industrial partners and potential customers: small interactive sessions in the form of webinars will be organized for these categories of interested stakeholders. In particular, demos will be made available to small groups (maximum 4-5 individuals/companies at a time). The idea is to have a registration phase and then have participants in the webinar divided into several small breakout rooms where they can interact with experts (ask questions, etc...) and view the online demo. Also in this case, the aim is to increase the audience. The webinars will be co-organized in parallel with physical workshops.

In order to guarantee the quality of the events, input will be asked before (in order to collect needs and requests and tailor the event to the demand of the customer, finetune the contents of the webinar and to direct the consortium effort) and after the event (in order to modify and improve the following events). Feedback will be requested in the form of online questionnaires and surveys.

## e. Mari4\_YARD online innovation and matchmaking platform

Mari4\_YARD will create an online community supported by the deployment of an online innovation and matchmaking platform accessible as a separate web page but linked to the project website. The community will build on the supportive partners (around 11 maritime clusters and associations confirmed at this stage) that already gave their support to the project in the proposal preparation phase (Aclunaga, Associacao das Industrias Navais, Pole EMCs, Oceano, Rina, Swedish Maritime Technology Forum, Stena Rederi, Offshore Vast, GISBIR, Ulstein Naeringsforum, VSM).

Mari4 YARD online innovation and matchmaking platform will have a twofold approach:

- i) Support collaboration, linking information to project objectives and improving the flow of information as well as promoting the Mari4 Didactic Factories Network;
- ii) Gather all relevant stakeholders (Mari4 partners, clusters, technology providers, SME-shipyards, Academia, policy-makers, authorities, certification and standardisation bodies, etc.), update them about project evolution and act as a pivotal point for matchmaking and fostering cooperation (exchange of ideas, offer-demand publications, sharing success stories...), helping to collaborate with other networks and initiatives, leveraging synergies and boosting impact (while guaranteeing the best value for money).

#### f. MARI4 YARD Workshops

The collaboration of relevant stakeholders is a critical success factor for Mari4\_YARD. In fact, the workshops, besides being a powerful dissemination channel, consist of significant moments where the top-down process is accomplished. At least four workshops (focused on 4-5 relevant "themes") will be organised within the project duration that will have the main goal to:

a. disseminate the technologies studied within the project and the related developed solutions and/or



b. demonstrate such technologies and solutions.

Where possible (for example when the event takes place in a location where a pilot is running) the workshop will cover both goals otherwise it will be more focused on one or the other.

The workshops will be organised by different partners (CMT, NMTF, AIMEN, EWF) in collaboration with supportive partners (European maritime clusters and industry associations) in different parts of Europe. DBL will coordinate all of them and support the structuring of the events, as well as the event implementation itself. This dissemination channel is essential in helping to extend the promotion of Mari4\_YARD project and to perform and European-wide reach. Whenever possible, specific activities as showrooming demo cases (for trial and assessment of the training material) and technology sharing at regional Clusters (for demonstration and boys & girls' days) will be carried out. The workshops will be organised in a way that supports the bi-directional exchange of information between the project, the clusters and the entire reference community. Furthermore, they will be supported with a number of technological tools (broadcasting tools, webinars, recording...) to increase the impact of each event and multiply its effects in terms of communication and dissemination and to allow all the clusters to take part even if the workshop is not organised in their territory. In order to guarantee their success and effectiveness, workshops will be organised around a central hot theme, with a structured agenda, involving high-level speakers to attract a wide audience.

Each workshop will be accompanied by ad-hoc dissemination materials and will involve a targeted mix of stakeholders, defined in advance according to the workshop topic and objective. For the four workshops, Mari4\_YARD will:

- » Produce a standard visual format to make them easily recognisable
- Develop and adopt an engaging format for the promotion of the event, aimed to create curiosity, attract people's attention and thus raise the number of registrations as much as possible. Ideally, after announcing date, place, topic and objective of the workshop, the details on the contents of the workshop will be gradually realised. If applicable to the chosen format, the speakers and the focus of their speech will be announced one at a time on the social networks, with catchy posts and tag of the speakers. This strategy is also intended to raise the visibility of the event and attract new targeted contacts
- » Develop and adopt an innovative format for the event, using live applications and platforms as well as introducing interactive demos, videos, etc..
- » In order to guarantee the quality of the events, feedback will be asked before (in order to collect needs and requests and tailor the event to the demand of the customer, finetune the contents of the workshops and to direct the consortium effort) and after the event (in order to modify and improve the following events). Feedback will be requested in the form of online questionnaires and surveys.

#### g. Mari4\_YARD Dissemination Events

The project dissemination events are another powerful channel, where the Mari4\_YARD work, findings and results will be presented. Mari4\_YARD plans to organise two dissemination events, to be held in the second (2022) and the fourth year (2024) of the project.

In order to maximise the impact of dissemination events, Mari4\_YARD aims to raise their attractiveness and level of attendance by:

» Selecting high-level speakers and planning speeches covering key-points and questions emerged during the Mari4\_YARD work;



- » Planning brief interactive sessions, where launching to the public questions on hot-topics and letting the attendees express their opinion and discuss;
- » Involving a good mix of stakeholders, in order to gather many different points of view in the same room, and thus ensure rich and interesting discussions;
- Exploring opportunities for joint-dissemination events with other EU-funded projects, or other large events;
- » Developing ad-hoc catchy dissemination materials, for both the promotion phase and the event itself.

#### h. Scientific dissemination

The participation at targeted external events is another relevant channel for both disseminating the Mari4\_YARD Project, its activities and results, and promoting its internal events.

A preliminary list of external events (conferences and Industrial events and fairs) that will be considered for the Mari4\_YARD dissemination includes:

#### 1. Conferences:

The European Transport Research Arena (TRA), MARTEC, MESIC, EMS Summit, Industry 4.0 Summit, euRobotics Forum, FAIM, ECMMM, IROS, ICRA, BIOROB, HFES (Human Factors and Ergonomics Society) Europe Chapter, events organized by the MARI4\_YARD Related Projects

#### 2. Industrial events and fairs:

» Hannover Messe, Advanced Factories, AUTOMATICA, SPS, BIEMH, GlobalRobotExpo, Robomatica, SMM Hamburg, Europort, Seawork, Navalia, Euromaritime, Schiff&Hafen Conference

Finally, the publication of papers will be another relevant channel to disseminate the project results within the scientific community. The papers will be published on international peer-reviewed journals such as Robotics & Automation Magazine, Schiff & Hafen Magazine, Manufacturing Technology CIRP, Journal of Manufact. Science and Tech., IJIDeM, etc...

## 3.3.3 Products

A variety of dissemination products, summarized in Table 4, will be produced by Mari4\_YARD. The Mari4\_YARD visual identity will be the starting point for the production of each product, which will be then be customised for the specific aim and audience targeted.

Table 4. Mari4\_YARD dissemination and communication products.

Product	Description	Main objective
Website	The website is Mari4_YARD's main means of	Inform
	communication	Raise awareness
Open access repository		
	the access to public datasets, as well as to the consolidated project results	Ensure impact
Brochures/leaflets	These are one of the main means to promote both Inform	
	project workshops and dissemination events, as well	



		1
	as the project itself. They will be short documents (1-2 pages) with a strong visual identity, stating topic and key-questions of the event and showing its programme. Mainly digital versions will be produced	
Scientific and technical	Articles on peer-reviewed scientific journals	Inform
papers		Ensure impact
Presentations/posters	Presentations given during all the Mari4_YARD events, as well as external events, will be made available on the project website. The ones given by external speakers will require their authorization.  Posters will be produced for any event Mari4_YARD will organise. Posters aim to visually represent keycontents developed by Mari4_YARD. After the event, posters will be made available on the project	Inform Raise awareness
	website.	
Public deliverables	Once approved, all the public deliverables will be made available on the project website.	Raise awareness
Videos/demos/webinars	Videos represent a powerful and effective way to communicate and promote the project, its vision, mission, main goals, as well as its methodology and main findings. The production of videos will be mostly considered in proximity of the Mari4_YARD events. Videos will be made available on the project website and disseminated via any available channel such as the social networks where the sharing of videos is very likely to raise the visibility of the projects and attract new followers. Moreover, demos will be developed to allow the test of the Mari4_YARD solutions by interested stakeholders. They will be displayed during webinars organised for small groups of interested stakeholders	Inform Raise awareness Ensure impact
Newsletter	Newsletters are a powerful instrument to maintain and progressively reinforce the relationship with stakeholders. Mari4_YARD will produce periodic newsletters aimed to show the progress of the projects, highlight recent findings and giving some clues on what will come next. Stakeholders can subscribe to the newsletter through the website	Inform Raise awareness Engage
Press releases	Press releases will be published by the consortium throughout the project duration in order to raise awareness about the project and its findings and results	Raise awareness

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Mari4_YARD online	The platform will gather all relevant stakeholders	Inform
innovation and	(Mari4_YARD partners, clusters, technology	Engage
matchmaking platform	providers, SME-shipyards, Academia, policy-makers, authorities, certification and standardisation bodies, etc.), update them about project evolution and act as a pivotal point for matchmaking and fostering cooperation	

## 3.3.4 Strategic Lines & Targeted Approach

Building and maintaining a prosperous community of diverse and supportive stakeholders is a big challenge for Mari4\_YARD. To succeed, clear strategic lines and a targeted approach are needed.

## a. Strategic lines

Mari4\_YARD has identified three preliminary strategic lines, the effectiveness of which will be monitored and evaluated during the first part of the project and, if necessary, adjusted or replaced by more effective solutions.

- » Keep stakeholders in the loop: Mari4\_YARD will keep its stakeholders in the loop of its work, by gradually sharing its results on the social networks and allowing them to test them. This strategic line has a multiple purpose: raise the visibility of the project and its results; involve the relevant stakeholders in the design and development phase; enlarge the Mari4\_YARD network and build the Mari4\_Alliance by collecting interest and commitment from supportive partners.
- » Practical and hands-on communication: the Mari4\_YARD communication will make use of demos and test sessions to allow the relevant stakeholders to have a real contact with the developed solutions and to give feedback and contribute to the further improvement of the solutions themselves.
- » Topic-centred communication: the Mari4\_YARD communication will always be focused on a specific topic which will periodically change. The leading topic will be defined on the basis of the Mari4\_YARD events, findings and results, as well as on the trending and hot themes in the field. The chosen topic will be launched via website and afterwards through social media. This would allow to mostly attract and engage the type of stakeholders of major interest for Mari4\_YARD in each specific phase of the project.

#### b. The MARI4\_YARD Targeted Approach

When a project speaks to such a wide and diverse audience, the adoption of a targeted approach is a key-factor for a successful communication strategy. Indeed, the MARI4\_YARD communication and dissemination goals, products and channels illustrated above have been chosen starting from the various needs of the different (primary) stakeholders targeted.

MARI4\_YARD aims to serve **institutional bodies and policy makers** by providing: guidelines on the use and deployment of advanced tools in shipbuilding. The continuous surveillance on standards and regulations will allow an early detection of potential conflicts.

The **specialised audience** includes the research community, the ERA, the European industry and EEN, as well as industries and institutions outside Europe. Mari4\_YARD aims to promote the use of its results and collect feedback from all these three sub-categories. In particular, Mari4\_YARD provides:

» The research community with:



- Open Pilot Lines to test new technologies and processes
- » The European industry, EEN and the industries outside Europe with:
  - A higher quality of the offered service
  - Better quality of work and thus higher possibility to attract qualified workforce
  - o Time saving in the shipyards for example for repairing, higher reliability and higher predictability
- 5) The **other EU funded projects** will benefit from the Mari4\_YARD project by sharing knowledge and exchanging best practices.

Mari4\_YARD **supportive partners** will be actively involved in the project implementation and in the creation of a Mari4\_Alliance. They will be invited to promote the attendance to webinars, workshops and matchmaking events with their members, as well as to disseminate the public results of the project through their own channels. The knowledge developed in the project will benefit the members of these supportive partners, especially the industry associations. Accessing the didactic factories network they will directly benefit from the knowledge and skills of other supporting partners and enhance the awareness of the skills required for the use of the innovative technologies developed in Mari4YARD.

Lastly, Mari4\_YARD aims to inform the **general stakeholders** by providing an overview on innovations in the SME-shipyards. Besides the **general public, young minds, qualified workforce and women** are among the general stakeholders of the Mari4\_YARD project. As already mentioned, the aim is to attract them to the possible jobs in the sector.

Furthermore, as shown in Table 5, each Mari4 YARD product/channel is intended for specific stakeholders.

Table 5. Dissemination instruments and stakeholders.

Instrument	Stakeholder
Website	Institutional bodies and policy makers
	Specialised audience
	Other EU funded projects
	Supportive partners
	General Stakeholders
Social media	LinkedIn:
	Institutional bodies and policy makers
	Specialised audience
	Other EU funded projects
	Supportive partners
	Twitter:
	Institutional bodies and policy makers
	Specialised audience
	Other EU funded projects



	Supportive partners
	General stakeholders
	Youtube:
	Specialised audience
	General stakeholders
Demos/interactive webinars	Specialised audience
	Supportive partners
	General stakeholders (young minds, potential qualified workforce and women especially)
Dissemination workshops	Institutional bodies and policy makers
	Specialised audience
	Other EU funded projects
	General stakeholders
Mari4_YARD online innovation	Supportive partners
and matchmaking	
Press releases	Institutional bodies and policy makers
	General stakeholders
Newsletter	Institutional bodies and policy makers
	Specialised audience
	Other EU funded projects
	Supportive partners
	General stakeholders
Open access repository	Specialised audience
	Supportive partners

# 3.4 Dissemination Actions: Plan (Preliminary)

The plan for the Mari4\_YARD dissemination actions is provided in **¡Error! No se encuentra el origen de la referencia.**. This is a preliminary version, the effectiveness of which will be monitored and evaluated during the first part of the project and adjusted as necessary.

Table 6. Dissemination Actions - Plan (Preliminary).

Means	Actions	Frequency
WORKSHOPS	Organisation and delivery	Linked to the main project outputs
DISSEMINATION EVENTS	Organisation and delivery	Every 2 years



PRESENTATION AT EXTERNAL EVENTS	Presentation of the project, its findings, results	On occasion
WEBSITE	Publication of news	1 per month
	Promotion and publication of information on upcoming events	When necessary
	Publication of MARI4_YARD Products	When produced
SOCIAL MEDIA	Post/Tweet on MARI4_YARD related events, relevant articles	1 every two weeks (starting from M6)
	Post/Tweet on MARI4_YARD activities: on-going activities, assessed projects, findings and results	1 per week (starting from M6)
	Post/Tweet on Mari4_YARD news and events	When available
NEWSLETTER		Every 6 months, (starting from M6)

## 3.5 Monitoring the Impact

Constant monitoring of the results of dissemination actions is fundamental. This allows to pinpoint actual strengths and weaknesses of the strategy pursued, to identify and implement corrective actions, to measure the effectiveness, and to report results.

MARI4\_YARD aims to progressively improve, year after year, the effectiveness of its dissemination actions. A preliminary set of indicators, listed in **¡Error! No se encuentra el origen de la referencia.**, has been identified to keep track of the progress of the dissemination. At the end of year 1, the results will be measured, and these will serve as a basis for the definition of the targets for the following years.

Table 7. Indicators to monitor progress and impact of dissemination.

Audience	Performance Indicators
Young minds	+200 students participated in Mari4_YARD events
General public	+1500 people informed about the Mari4_YARD project
Women	Involvement of specific associations/networks such as wista and elles bougent in at least 3 activities
Stakeholders	+4 presentations
	+25 partners engaged
ERA	+ 2 publications
EC, authorities and policy makers	+ 4 presentations and/or events
Activity	Performance Indicators
Website	+2000 visits

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Project press releases and media appearance	+6
Project in partners' websites and/or social media	+3000 visits
Project social media	LinkedIn:
	+100 posts
	+200 contacts
	Twitter:
	+100 posts
	+200 followers
Mari4_YARD workshops and dissemination events	Average 50 participants per event/workshop
Scientific and technical articles	+4 articles
	+1000 readers
Presentations and posters in conferences	+8 conferences
Participation in industrial events and fairs	+5 industry events and fairs
Open access repository	+3 open access publications
	+40 downloads
Networking with other EU projects	+2 activities
	+5 projects contacted
Liaison and collaboration with standardisation organisations	+2 relevant liaison activities

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