



# SEUS

## Smart European Shipbuilding



## D6.6 - PLAN FOR THE EXPLOITATION, DISSEMINATION AND COMMUNICATION OF RESULTS



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# Executive Summary

The Dissemination and Communication Plan and Visual identity of the project describes the objectives, target groups, timeline, outreach channels, tools, monitoring and evaluation strategies for the dissemination and communication activities in SEUS. In the first two chapters, this document defines the strategies and key actions that will be deployed during the lifetime of the project with the aim of raising awareness about the project and its activities, maximizing its visibility among the general public and conveying SEUS results to specific target groups.

Section 1 introduces individual and joint reporting responsibilities for the dissemination and communication activities, the KPIs and reporting tools provided by NTNU and NHL Stenden. It revises the *Target Audience, Objective, Message, Tools, channels and KPIs* table from the proposal, as well as business plan items and its exploitable results. A review of the impacts is also presented.

Later, current state of the dissemination and communication is described and introduced in Section 2. This document includes the primary tool for continuous reporting, which includes: Dissemination reporting; Communication reporting; Results; Scientific Publications; Other results; Deliverables; Milestones; Critical Risks; and Patents- IPR. The website is introduced after, with the objective to converge all public information that the project will deliver, including communication, dissemination and exploitation. This also presents a basic branding elements (logo, colour palette) that inform the design of the SEUS dissemination materials.

In Chapter 3, the plan revises the rights and obligations the responsibilities of individual partners and the Consortium collectively. It revises the EU Commission guidelines for a successful and cooperative dissemination of significant results and contribution to communication activities. As a result, all partners are actively engaged in dissemination, communication and exploitation (led by NHL Stenden) of project results.

The Dissemination and Communication Plan is a “living” document, which will be updated during the project’s implementation to actively address the needs of the project based on its interim results. New tools and methods for engagement and communication will be suggested based on regular review and evaluation of SEUS’s dissemination efficiency and engagement rates of its end users.

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# 1. SEUS Dissemination and Communication Plan

Dissemination, exploitation, and communication activities aim to ensure and **maximize the achievement of the impacts** of the project, for a wide range of target groups in Europe. The SEUS dissemination and exploitation activities will be organized along the following pillars:

- a) Scientific dissemination: dissemination in the scientific community, an effort led by partner NHL and NTNU
- b) Dissemination to the relevant target groups outside the scientific community, an effort led by partner NHL, NTNU and UTU
- c) Commercial exploitation of the project results, coordinated by partner CADMATIC and with contribution from all partners
- d) Capacity shipbuilding activities: industry workshops, feeding into capacity shipbuilding training, led by partner Ulstein
- e) New elements for teaching courses at Universities, for subjects of shipbuilding technology, joint effort by the universities in the project (NTNU, NHL, UTU).

A strong point of SEUS is its exceptional consortium, a balanced partnership composed of academics, software developers, and industry partners representing 5 countries from Europe, which is fully dedicated to bridging the knowledge in its communities and facilitating the uptake of the main results. SEUS's partners are experienced in customer implementation, dissemination, and communication activities in their home countries and internationally, and this experience will be enormously beneficial for the project. Therefore, the consortium is committed to disseminating SEUS's approaches and outcomes, while simultaneously staying focused on the identified target groups and reaching the objectives of dissemination and exploitation.

Dissemination of the project results will be directed at clearly defined target groups with the aim to engage the target audience and facilitate the exploitation of the project's results (Table 1). However, an in-depth analysis of the customer segments and their needs and preferred communication channels is also a part of this project. Hence, the list with objectives, messages, and communication methods is a preliminary list based on the consortium member's long-standing experience in the maritime industry sector and current understanding of the impact potential and value gains for customer groups, the shipbuilding industry, and bordering industries: shipping, logistics, manufacturing and IT.

*Table 1: Dissemination Summary*

Target Audience	Objective	Message	Tools, channels and KPIs
EU shipyards	Increase efficiency of operations through time savings and quality enhancement.	Extend the use of 3D models enriched with data to improve processes in the shipyard	Use existing sales and marketing channels in the industry via all partners to present the value and functionality of



	<p>Improve data flows between IT solutions, departments, and design stages.</p> <p>Expand the use of CAD/CAM/PLM solutions across work processes and boost digitalization of overall shipyard processes.</p>	<p>– a single source of truth for product data.</p> <p>Reliable data for early design variant management and cost/weight estimation.</p> <p>Secure data platform for use in all shipyard functions.</p> <p>Platform to integrate all solutions along shipbuilding life cycle: design, data management, change management, interfaces with other CAD, PDM, PLM, MES, ERP.</p>	<p>the platform. The aim for the first year after the functionality scope is implemented is to have 1-3 additional shipyards using the platform. Overall market capacity estimation is about 140 shipyards in the EU, 2/3 out of these already use CADMATIC design solutions and for these, it would be a natural expansion and enhancement of their toolset with low implementation effort.</p>
<p>EU Ship design and naval architecture firms</p>	<p>Expanded integration options for the early-detailed design process, common platform, and data format to exchange design data with shipyards. Expanded interoperability options between proprietary tools eliminating vendor lock-in.</p>	<p>Project control and related data or documents are key in assuring quality and delivery time, using the common platform with the shipyard to transfer data simplifies cooperation and ensures co-design possibilities. This development would lead to a higher level of cooperation between shipyards and ship design companies.</p>	<p>Use existing sales and marketing channels via all participants and reach out to ship design and naval architecture offices via shipyard networks.</p> <p>There are over 500 ship design offices across the EU that provide various scopes of work in shipbuilding. Depending on the activities, about half of these companies would be potential users of the new platform.</p>
<p>Shipowners and operators</p>	<p>A platform for inherited design data to provide a significant reduction of costs for retrofit and revitalization projects. Connected digital twin: integration platform for 3D, IoT, and data from maintenance and</p>	<p>Increase ship as an asset value by including a digital twin and providing a platform for integrations.</p> <p>Enforce the connection between ship design, building, and operations.</p>	<p>Direct impact on owners working with the involved shipyards.</p> <p>Wider reach to shipowners and operators via shipyards, and industry fairs.</p> <p>Offer new platform to shipowners already</p>



	<p>operation monitoring systems.</p> <p>Increase EU Shipyards' credibility over other competitors (Turkey, Asia, America, etc.) by providing extra value by delivering a ready platform with digital twin data to be used and connected with other vessel information systems.</p>	<p>Eliminate the need for redesign.</p> <p>Receive extra value from the shipyard and expand the use of digital twins for asset management.</p> <p>Increase the use of innovative solutions in design to drive sustainability.</p>	<p>using CADMATIC's Information Management solutions and offer them expanded cooperation with building yards.</p>
Shipbuilding subcontractor networks	<p>All parties involved in the design and building process can benefit significantly from using consolidated data. Every shipyard has a network of subcontractors, involved in parts of the process. Providing them with the information needed and ensuring they have updated data would significantly impact operational efficiency.</p>	<p>Intensify cooperation using modern digital technology, eliminating communication gaps, reducing possible mistakes, increase efficiency in work process.</p>	<p>Direct impacts on the networks of participating shipyards. The shipyard's influence on the networks as a driver to disseminate the use of new tools.</p>
Wider shipbuilding industry: classification societies, technology providers	<p>Classification societies and technology providers need to interact with the design and building processes. Facilitating this communication (class approval of designs, including new technological units, using innovation approach etc) with a platform approach and increasing the use (and reuse) of 3D data, equip both parties with the needed tools for shipbuilding data management.</p>	<p>Closer connection in the industry in the context of approvals, and use of innovative shipbuilding technology.</p>	<p>Use the shipyard's influence and wider communication channels to reach industrial players. Use direct channels of communication between software developers and classification societies (DNV, BV, RINA, etc)</p>
Engineers, designers, naval	<p>Facilitation of work processes and elimination</p>	<p>Use modern tools and improve the efficiency of</p>	<p>Training courses provided by the</p>



<p>architects, draftsmen, and others involved in the shipbuilding industry</p>	<p>of manual data transfers would require up-skilling workforce in digital tools, and an overall increase in the use of IT solutions in work processes.</p>	<p>everyday practices in shipbuilding.</p>	<p>participating universities, increased use in the industry.</p>
<p>EU workforce in computational tools development and implementation fields</p>	<p>Competence, skills, and networking development in the fields of modern IT computational technologies and platform integration using the newest fields of AI, NLP, machine learning, and 3D visualization, applied in industrial use. Network expansion and multi-discipline development for shipbuilding and other manufacturing industries using IT tools for digitalization and PLM approach.</p> <p>Disseminate knowledge of the abilities and limitations both in terms of accuracy and computational scalability of present-day AI-driven solutions for IR and QA</p>	<p>Applied development and use of high-end technology in integration in the computational tools and shipbuilding domain.</p> <p>A set of best-practice insights for efficient application of the methodology.</p> <p>Value co-creation process to develop products in close cooperation with customers.</p>	<p>Direct involvement in project activities, and dissemination in IT professional forums and conferences. Number of professionals involved in the project and junior/summertime developers (estimated over 75 in total, from 3 countries), number of publications, conferences, topical blog posts.</p> <p>University-Industry seminars, publications in industry-targeting fora, open-source research prototype software</p>
<p>Universities and research organizations  NLP Researchers</p>	<p>Research results and direct industry connections will be established during the duration of the project. These will improve the existing curricula and expand the knowledge of university researchers and teachers.</p> <p>Disseminate information about the methods developed and their evaluation relative to a relevant baseline, and increase knowledge about</p>	<p>Methodological research articles demonstrate the methods and their performance and the documentation within as an interesting and rich source of both data and challenges that can be addressed.</p>	<p>Scientific publications in engineering, IT, AI, and NLP researcher venues, establish a link between these research areas.</p>



	NLP research opportunities in the CAE/CAD/CAM/PLM industry segment.		
Students in shipbuilding, mechanical engineering, manufacturing, and IT fields	Skills development and industry knowledge, involvement of young EU talents.	High-quality training and expertise, aligned with topical industrial challenges.	Educational materials via academic partners, training courses, common events with industrial partners, at least 3 per partner, summer job positions for students allowing them to try work in a project and IT environment.

**Scientific dissemination:** the scientific results of SEUS will be disseminated through **different channels**, which are: 1) publishing in relevant journals; 2) presenting results at relevant conferences; 3) sharing results with the scientific community with similar interests; 4) publishing popular science articles, aiming at a wider audience and using a platform such as the SEUS webpage, LinkedIn, partners' webpages and technical newspapers and blogs; 5) setting up events such as seminars to present the results to stakeholders, municipalities, policy and decision-makers (led by NTNU).

**Participation at events:** all partners will be responsible for identifying suitable events/workshops and seminars at national, regional and European level, as well as global level, where SEUS can be presented or promoted. The following upcoming European and international events have been identified as potentially relevant for disseminating the project results: SMM and Maritime Future Summit (Hamburg, Germany, the most important shipbuilding event globally), Nor-Shipping (Oslo, Norway), Euromaritime (Marseille, France), ICCAS (International Conference on Computer Applications in Shipbuilding, location defined each year), SNAME (US-based shipbuilding convention and webinars), COPINAVAL (The Pan American Conference of Naval Engineering, Maritime transport and Port engineering), COMPIT (Conference on Computer Applications and Information Technology in the Maritime Industries, location defined each year, Europe), Navalia (Vigo, Spain), IMDC (International Marine Design Conference, location defined each edition) .

**Stakeholder workshops:** Four stakeholder workshops will be organized, to disseminate the preliminary results from WP1, WP2, and WP3 and gather direct feedback from the invited high-level decision-makers of key stakeholder organizations, gather their input on future actions and the local needs and concerns that will shape digital capacity in shipbuilding. The consortium has already organized a successful public workshop in Norway, during May 4<sup>th</sup>, organized by NTNU and Ulstein.

**Exploitation and business plan:** The exploitation efforts will be coordinated by partner CADMATIC in the activities properly foreseen in the dedicated WP5. The business plan for commercializing the SEUS solutions is summarized in Table 2.

*Table 2: Exploitation and Business plan*



<b>Business plan item</b>	<b>Description</b>
Description of new products and general business model	The scope of features, tools, and components developed in the Smart PDM+CAD platform
Preliminary market analysis	Market analysis on how shipyards can make use of the Smart PLM+CAD platform will identify added value for customers and describe use cases.
Target customers and mode of revenue generation	Target groups will be identified beside the industrial groups listed in Table 7 as a “target audience”. These would primarily include shipyards and shipbuilding EU networks, the wider marine industry (offshore and floating constructions), and more potentially relevant groups such as industrial design and construction in the process industry and the like (where similar or the same computational tools are used and the needs are potentially similar for digital transformation and data use)
Organization	Industrial partners coordinate the commercial aspects and suitable organization model: sales, marketing, and implementation support resources. Supported by applied research from universities and joint programs for skills development for students in the industry (future users of the technology) and IT specialties (development).
Strategy for market entry	First target groups would be selected from existing networks in the industry and current users of CAD tools to facilitate easy market entry and easy adaptation of the new tools. Widening the reach would be achieved by dissemination and communication activities.
Financing needs for a full commercial rollout	To be incorporated in the actual commercial planning of the industrial partners.
Description of new services and business model strategies as well as ecosystem stakeholders	The structured framework of business model strategies associated with the potential new product- and/or service elements will be developed as part of the SEUS project. It will incorporate business models (SaaS, PaaS, cloud, licensing etc.), strategies in the shipbuilding industry, and analysed new directions reflecting mega-trends due to digitalization, sustainability, and human-centricity in other domains (computational tools, AI, industrial design).

Aside from the holistic approach the SEUS components can also be exploited academically or commercially separately, as detailed in Exploitable Results 1, 2 and 3.

<b>Exploitable result 1</b>	<b>Algorithms for PLM integration</b>
Means of exploitation	Licensing and selling the algorithms and developed software packages to third parties, such as SDK (Software Development Toolkit)
Business model	Royalties/Licensing fees



Target market	Developers of computational tools in the shipbuilding industry, conversion and data transfer middleware developers, and integrators
Organisation	Continuous support of developed technology and update based on the latest developments, and maintenance of API
Competitive advantage	Wider-used standardised data exchange increase the potential for full package computational tools use and interoperability in the industry.
Market entry strategy	Through networks of partners in software development and via technology dissemination measures

<b>Exploitable result 2</b>	<b>SEUS products deployment service</b>
Means of exploitation	Providing the market service for selling the SEUS systems and set of products and their configuration in the customer's premises, with technical support for installation. Providing strategic consultancy for shipyards aiming to increase digitalization and efficiency of operations by adopting PLM and Industry 5.0 approach.
Business model	Service is offered under specific prices directly by partners interested in the commercialization, according to specific reseller agreements for the different markets.
Target market	Shipyards, ship design companies, shipowners, and wider shipbuilding industry stakeholders
Organisation	High level of expert consultants and application specialists, from the partners' organizations, possible set up of joint venture or a separate consultancy business activity.
Competitive advantage	Unique expertise developed through the project and lack of similar offering on the market.
Market entry strategy	First marketing campaign based on the project actions and demonstration phases in the pilots; development of larger groups of customers starting from the project dissemination activities.

<b>Exploitable result 3</b>	<b>A standardized data model for shipbuilding data exchange software</b>
Means of exploitation	Free-of-charge usage by the target group
Business model	The methodology will be published and is publicly available, with examples of PBS/WBS data models based on SFI standards and adopted for EU shipbuilding practices.



Target market	Developers of computational tools in the shipbuilding industry, conversion and data transfer middleware developers, and integrators
Organisation	Updating of materials published online will be supported by regular review in comments based on the best practices
Competitive advantage	Provide non-existent expertise for data structure model suitable for CAD/PDM conversions and based on the developed framework for data exchange, verified by test uses in the shipyard
Market entry strategy	Through scientific dissemination, workshop organised with target group to define the objectives and general specifications of the evaluation method. Presentation of results to all participants at the end of development.

Contribution of the dissemination, communication and exploitation measures to the expected impacts of the project is presented in Table 3.

*Table 3: Contribution of the dissemination, communication and exploitation measures to the expected impacts*

<b>Expected Impacts</b>	<b>Contribution of dissemination, communication and exploitation measures</b>
<b><u>Impact 1</u></b> Computational platform solution for PLM approach in shipbuilding	The resulting platform is the main subject for commercial exploitation and business planning. During the development and project course, a communication plan can use developed concepts and knowledge in communication.
<b><u>Impact 2</u></b> Facilitation of digital transformation of shipbuilding	Impact on the industry processes and digital transformation on society, industry, and technology levels and use of developed demo and examples for creating understanding and impetus via communication.
<b><u>Impact 3</u></b> Traceability and integration of early design impact on the design process	New approaches to innovative design solutions and use cases for computational tool support.
<b><u>Impact 4</u></b> Competitive advantage for EU shipbuilders through time savings in design and production stages	Examples of added value and competitiveness gains, case studies from the implementation, research materials for publications
<b><u>Impact 5</u></b> Expansion of shipyard exposure to ship life cycle: for retrofit, revitalization, use	Examples of expanded value chains in shipbuilding, case studies, the introduction of a wider digital transformation approach in shipbuilding and shipping



of data from operation and maintenance.	
<b>Impact 6</b> Human-centric shipbuilding knowledge management	A simple concept of user satisfaction is now elaborated as user experience values with a detailed taxonomy of values. Diverse value issues in shipbuilding including desires and wants and experiences of shipowners, operators and users including aftersales ship lifecycle steps should be accommodated. Evaluation of those experience values should also receive attention.
<b>Impact 7</b> EU workforce skills and expertise development	The developed content can be used to improve existing curricula for future maritime professionals and in workshops, training sessions and for experience sharing for the existing EU workforce.

Communication activities: The main focus of all communication activities within the SEUS project is to increase the economic impact of innovation actions undertaken within the project by facilitating the spread of developed technologies/products/services, through market and non-market-channels, towards new customers, countries, regions, sectors, markets and organizations. As such, communication activities will be aimed at promoting the project to the media and the general public, and at raising awareness about the addressed topics and findings. Project visual identity: A common public image/branding for the project allows easier identification by the public and ensures better visibility and immediate recognition. The most convenient method is adopting a captivating project logo and common graphics for any project template (e.g., presentation template, report template, etc.) and any published or publicly presented material (e.g., presentations, deliverables, etc., besides brochures, leaflets, flyers, posters, etc.).

In addition, the following tools and channels will be deployed (Table 4).

*Table 4: Channels and Tools*

Channels and Tools	Indicator	Target
<b>Project promotional materials and communication toolkit:</b> a promotional project brochure/leaflet and/or flyers for the large non-specialist community as well as the community of relevant stakeholders (i.e., to be used for dissemination purposes) will be developed and distributed to partner organizations (to be further distributed through their networks and channels) and at public events. A general project poster along with banners/roll-ups will also be developed in order to be used for events and exhibitions. Preliminary plan: 1) Design and printing of a first leaflet/brochure shortly after the beginning of the project to raise awareness and provide visibility for the project, 2) Design and printing of an updated and more comprehensive leaflet/brochure toward the mid-term to disseminate initial results of the project and flyers as needed 3) Design and printing of a general project poster and banners/roll-ups (for use at exhibitions and events)	Number of types of materials printed	2 types of flyers (initial and mid-term); 1 general poster; 1 banner, inclusions for software developers' respective product brochures and materials.



<p><b>Website:</b> A user-friendly and interactive website acting as a virtual dissemination vehicle, providing public and specific target groups access to valuable information. Information on the projects' objectives and results will be widely disseminated in web campaigns to have maximum cross-sectoral impact. The website will be frequently updated with resources provided by the partners and other networks. It will be cross-referenced with partners' own websites and promoted to boost visibility and coverage. <a href="http://www.seus-project.eu">www.seus-project.eu</a></p>	<p>Number of monthly visitors</p>	<p>Direct traffic 5K visits/month, directed traffic: 50K visits/month</p>
<p><b>Social media:</b> Social media channels are instrumental in reaching the general public and relevant stakeholders. SEUS will utilize LinkedIn, Twitter, and Facebook; other social media platforms will be utilized if necessary. Information posts will be cross-referenced with existing social media channels from partners with already established audiences relevant to the shipbuilding industry.</p>	<p>Number of followers and impressions per post</p>	<p>The target for native followers/impressions is 5K/10K, for the referenced audience: 10K/30K</p>
<p><b>Media/Press:</b> Publication of press releases (every 6 months) will be linked to major project milestones and results. National and European media will be contacted. Through existing platforms, networks, news- portals, and mailing lists, SEUS will promote its activities. The general public will be engaged through visually appealing videos conveying the main economic, societal, and ecological benefits. Interviews conducted by the consortium or external media with experts explaining the utilization of the tool will be also produced.</p>	<p>Size of press release target audience and reports for each press release</p>	<p>A total of 8 press releases are planned, targeting industry and academic stakeholders</p>

Public engagement is an imperative set of activities to be integrated with the SEUS communication strategy. Besides the communication activities listed above, and as part of the public engagement efforts, the following channels and tools will be employed (in line with WP6):

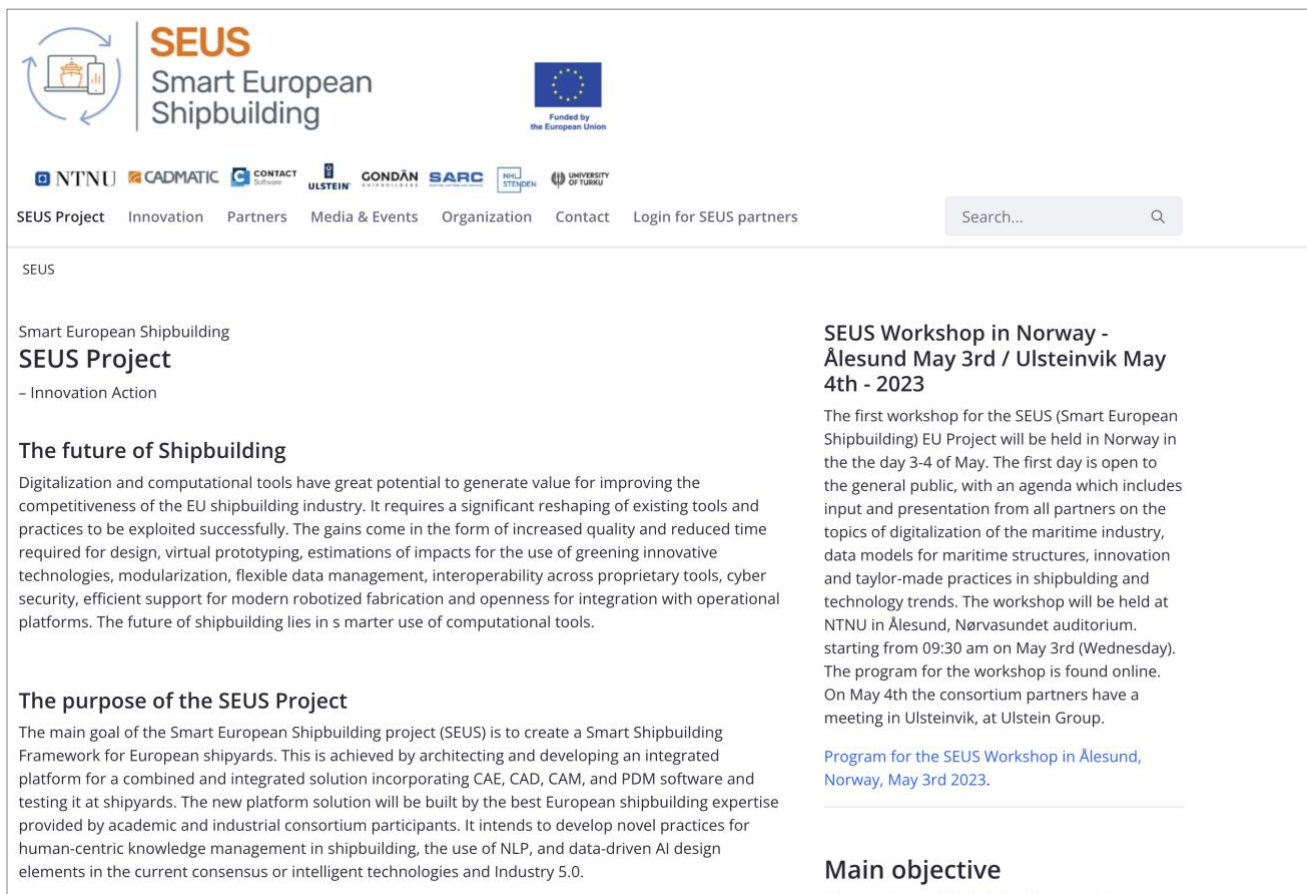
- Communication campaigns introducing industry workshops
- Support data collection on needs and interests of local marine industry stakeholders
- Capacity training: In turn, industry workshops will feed capacity training planned under Dissemination (2.2.1). SEUS pieces of training will be held online and developed in the format of e-learning. Each training will follow the guidelines, needs and learning necessities expressed during industry workshops by stakeholders.

## 2. Current State of the Dissemination and Communication



A public webpage is online for the project, at [www.seus-project.eu](http://www.seus-project.eu) (screenshot in Figure 2). The page contains a summary of the key information to understand the project, and is currently divided into:

- SEUS Project Overview
- Innovation
- Partners
- Media & Events
- Organization
- Contact
- Login for SEUS partners.



The screenshot shows the SEUS Project website homepage. At the top, there is a navigation menu with links for SEUS Project, Innovation, Partners, Media & Events, Organization, Contact, and Login for SEUS partners. A search bar is located on the right side of the menu. Below the navigation menu, the main content area is divided into two columns. The left column features a section titled "SEUS Project" with a sub-section "The future of Shipbuilding" and "The purpose of the SEUS Project". The right column features a section titled "SEUS Workshop in Norway - Ålesund May 3rd / Ulsteinvik May 4th - 2023" with a detailed description of the workshop and a link to the program for the workshop.

Figure 2 - SEUS Webpage screenshot (obtained on 12th June 2023)

This website intend to converge all public information that the project will delivery, including communication, dissemination and exploitation. Emphasis is given to the tab “Media & Events”, which converge recent public communication of the project (Figure 3).



SEUS Smart European Shipbuilding

Funded by the European Union

NTNU CADMATIC CONTACT Software ULSTEIN GONDAN SARC NILL STENDEN UNIVERSITY OF TURKU

SEUS Project Innovation Partners Media & Events Organization Contact Login for SEUS partners

Search...

SEUS > Media & Events

### Program - Workshop SEUS - Norway (May 3rd, NTNU Ålesund) Wednesday - Ålesund (NTNU) - Nørvasundet Auditorium (Ankeret)

Stream: <https://NTNU.zoom.us/j/96528745783?pwd=VFpwQTZtYlIaNUU4dnJwdnpDL2l3Zz09>

09:30 – Opening/Welcome (NTNU, Norway)

09:40 – Blue Maritime Cluster (NTNU, Norway)

10:10 - SEUS Project Overview (NTNU, Norway)

10:30 – Coffee Break

10:45 – 3D Design and Information Management in the Maritime Industry (CADMATIC, Finland)

11:15 – PLM for Shipbuilding (CONTACT Software, Germany)

11:45 – Lunch

News & Media

#### Media

[NTNU Nyheter -Smartare europeisk skipsbygging \(NTNU, 2023\)](#)

[€7m EU project to create smart shipbuilding platform \(Smart Maritime Network, 2023\)](#)

[Forskar fram framtidens måte å bygge skip på \(NETT.NO 2023\)](#)

[Smart European Shipbuilding - EU Fact Sheet CORDIS \(EU, 2023\)](#)

[The Smart European Shipbuilding project \(SEUS\) \(CADMATIC, 2023\)](#)

[The Smart European Shipbuilding project \(SEUS\) \(SARC, 2023\)](#)

[Smart European Shipbuilding \(SEUS\)](#)

Figure 3 - Media & Events at the SEUS website

### 3. Rights and Obligations Related to Results

Dissemination of results is a contractual obligation for projects funded under the Horizon programme. Horizon beneficiaries, therefore, conduct various dissemination activities through different means including electronic tools such as project web sites, e-publications, information platforms, and printed material such as leaflets, press releases, posters, as well as various events including stakeholder workshops, thematic meetings and conferences at national and European level.

At the same time, however, dissemination activities shall be compatible with the protection of intellectual property rights, confidentiality obligations and the legitimate interests of the owner(s) of the foreground, as stated in the EU Grant Agreement. In many countries (including most Member States) and under the European Patent Convention, an invention is no longer patentable once it has been disclosed; therefore, it is important that care is exercised in contemplating the publication of project results.

In particular, beneficiaries must:



- As soon as possible and at the latest on publication, deposit a machine-readable electronic copy of the published version or final peer-reviewed manuscript accepted for publication in a repository for scientific publications; moreover, the beneficiary must aim to deposit at the same time the research data needed to validate the results presented in the deposited scientific publications.
- Ensure open access to the deposited publication — via the repository — at the latest:
  - on publication, if an electronic version is available for free via the publisher, or
  - within six months of publication in any other case.
- Ensure open access — via the repository — to the bibliographic metadata that identify the deposited publication.

For more information on open access, please consult the Guidelines on Open Access to Scientific Publications and Research Data in Horizon EU.

Figure 4 summarizes the understanding from the EU on communication, dissemination and exploitation tasks. These definitions are adopted in the project and continuous reporting.



Figure 4 - Communication, Dissemination and Exploitation definitions by EU commission.