D4.2.1. Underwater robotics and sensors interactive web platform Beta-test report

InnovaMare project

Blue technology - Developing innovative technologies for sustainability of Adriatic Sea

WP4 – Creation and establishment of innovation ecosystem model for underwater robotics and sensors

Project References

Call for proposal 2019 Strategic – InnovaMare
Project number: 10248782
Work package: WP4 Creation and establishment of innovation ecosystem model for underwater robotics and sensors
Activity title: A2 Development of a cross-border interactive web network
Deliverable title: D4.2.1. Underwater robotics and sensors interactive web platform Beta-test report
Expected date: M 19
Deliverable description: It is a collaboration tool, a digital environment where innovation players exchange knowledge & build competencies, SMEs meet SRIs and business support organizations together will all other relevant stakeholders
Partner responsible for the deliverable: Croatian Chamber of Economy
Dissemination level: CO - Confidential
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Contents

Interactive web platform introduction 2
Description of funcionalities and focus groups conclusion 2
Description and content of web platform and offical infographic of web platform 7
Market place 10
Map of Excellence 30
Graphic overview of the platform 72
Conclusion 77

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Interactive web platform introduction

This network will be established as a platform for innovation ecosystem in underwater robotics and sensors. Online platform facilitator will be assigned at the beginning of the project. Developed map of excellence in WP3 is part of this web platform that covers innovation players. Besides that, all inputs gathered from stakeholders thru design thinking workshops, training trainers and business models will be part of web platform as well as technology foresight. Idea is to have a virtual marketplace for project ideas, financing search, partner search, raising awareness and education trainings in area of underwater robotics and sensors. In this way we are fostering cooperation, flow of information and knowledge. It is a collaboration tool, a digital environment where innovation players exchange knowledge & build competencies, SMEs meet SRIs and business support organizations together will all other relevant stakeholders.

IWP is designed as an information infrastructure to support the creation, development and maintenance of innovation and entrepreneurial ecosystem. It is a central point for the implementation and organization of future services within the digital innovation hub (DIH) for underwater robotics and sensors within Innovamare.

Five basic functionalities are united by previously prepared documentation:
A. Content Management
B. Map of Excellence
C. Marketplace
D. Community Management
E. Provision of DIH services

Description of functionality

All content of the platform is in English.
The platform distinguishes levels of authority without registration, with registration and with payment.

- PC- Public Content, no registration needed (public content)
- RF- Registered member, Freemium (registered user without payment)
- RP- Registered member, Premium (registered user with payment of membership fee)

All visitors have the right to log in to the system (for Freemium and Premium). The Administrator reserves the right to review or reject the reported data and any correction of the entered data. RF users have a wider range of platform rights and can switch to RP users. Payment is made by

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transaction account directly to the administrator (owner of the platform) on the account. The administrator has the authority to see the payment data, i.e. which user has paid for the membership and thus authorize him to the user's RP.

When registering, the user chooses which group he belongs to (legal entity, natural person, institute, NGO…). The form (which needs to be defined) is filled in in a dynamic way with all the necessary user data.

Rb	IWP Mairos Pages and Functionalities	PC	RF	RP
A	**CONTENT MANAGEMENT (HOMEPAGE)**			
A01	About DIH Mairos	X	X	X
A02	News and blog (tagged, categorized, Medium blogging by members)	X	X	X
A03	Calendar of events	X	X	X
A04	Free resources (Useful links, downloads, publications, webinars…)	X	X	X
A05	FAQ (including membership and payments)	X	X	X
A06	Terms of service	X	X	X
A07	Links to Mairos profiles to LinkedIn, FB, twitter, ytube…	X	X	X
A08	Sign in/Log in		X	X
A09	Admin			
B	**MAP OF EXCELLENCE**			
B01	Info	X	X	X
B02	Basic		X	
B03	Detailed			X
C	**MARKET PLACE**			
C01	Info	X	X	X
C02	Ideas section (projects or needs)	_X	X	X
C03	Demand section		X	X
C04	Offering section			X
C05	Investment and funding section			X
D	**COMMUNITY MANAGEMENT**			
C01	Info	X	X	X
C02	Community newsletter		X	X
C03	Forum		X	X
C04	Education programs free (documents and video material)		X	X
C05	Education programs paid (documents and video material)			X
C06	Profiles of companies and institutions		X	X
C07	Profiles of researchers and experts			X
C08	Promotions and sponsorships for the members			X
C09	Polls generation and analyse			X
C10	Consultation for public/private purposes			X
C11	Ideation & innovation			X

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The relationships and functionalities of items B, C, D and E are defined in the draft in the previous chapter and can be briefly described as follows.

Upon completion of user registration, the system administrator confirms / approves the user account, which, depending on the authority of Freemium or Premium, the user gets access to the content of the site.
After logging in, the system allows the user to view an additional menu with links to content that is inaccessible to anonymous (unregistered) users.

By accessing the map of excellence, the registered user gets the opportunity to search for content (projects, events, business entities, associations, institutions, organizations, suppliers and other entities defined by the initial requirement). The public user can only see general information about the excellence map.
Filtering is possible by multiple items with the results displayed on the map. Filtering options need to be defined.
Depending on the role (Freemium or Premium), the user will be able to see basic or expanded content. In the case of the Freemium authorization level, the user receives basic information about the requested project, event, business entity, etc. The Premium authorization level allows the user a detailed overview of the requested content within the folder.

The data that will be available for Freemium and Premium members must be defined by the administrator.

By accessing the Marketplace page, the public user receives general information related to the Marketplace and can view the ideas of stakeholders who have previously approved the display of ideas and public users. Public users are limited by the amount of information they can see (idea, short description, state, but do not see whose idea it is).
Freemium users can see whose idea it is, and the ability to view all the offers and demands of Premium level users. Premium level users can post their ideas, for which they can determine whether public users can view them or not, supply and demand.

If the demand and supply of two different stakeholders overlap, the administrator receives a matching notification, engages as an intermediary, and connects the users.

Freemium members get access to the forum, educational materials (free) and profiles of business entities and institutions. Premium members, in addition to the possibilities of Freemium members, additionally gain access to the profiles of researchers and experts and educational materials that

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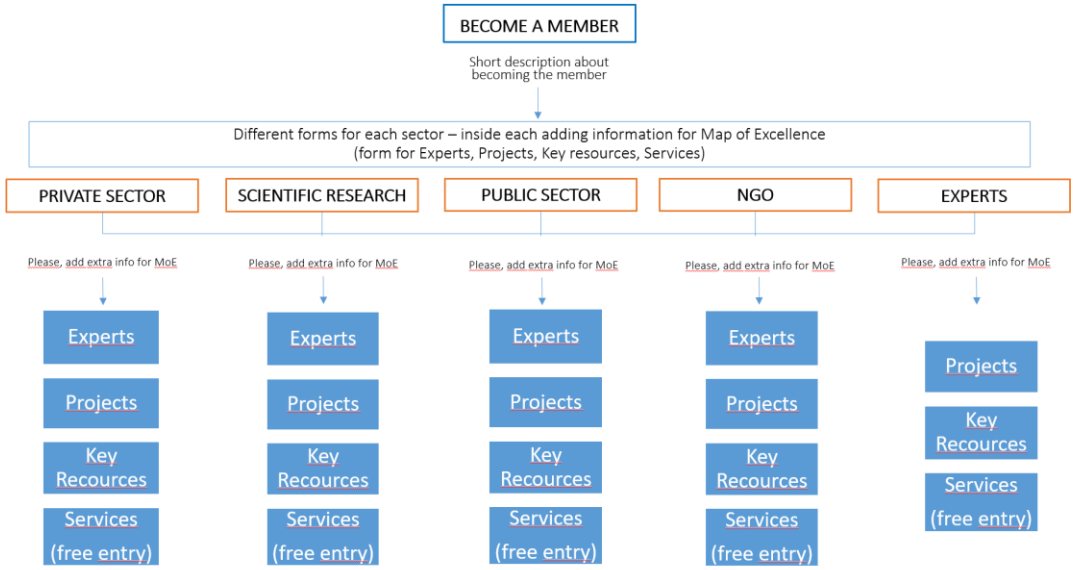
are available only to Premium members. The public user does not have access to or view the specified content.
Freemium and Premium members could write blogs and announce events. For content (blog or event) to be visible to all users or a specific group of users, prior approval from the platform administrator is required.

The administrator can assign ratings to each user for internal evaluation purposes. Ratings are not publicly available and will not be visible to users of any level.
The role of the system administrator is also counseling, pooling, providing innovation management audits and / or improvements, seeking sources of funding (e.g. EU projects, etc.).
The administrator could create interactive forms that can be sent to users of the platform (and beyond as needed) and offer services that can be performed on the market.
A more detailed analysis of users / stakeholders is available to the administrator, e.g. Y companies from area Z.



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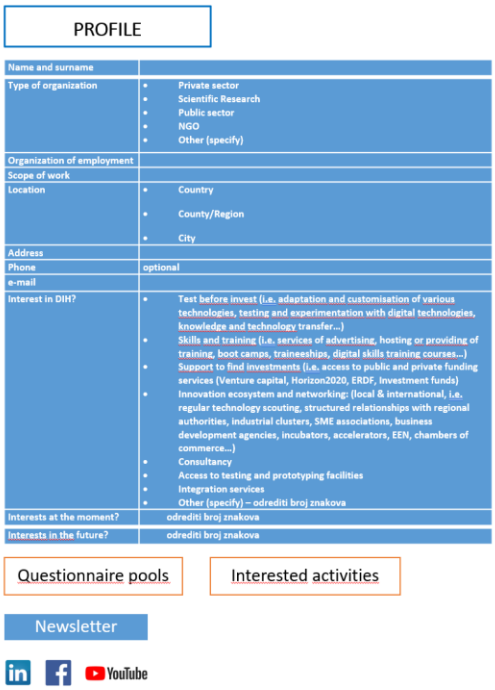

Focus groups conclusions

FOCUS GROUP – THE POTENTIAL of WEB PLATFORM
One of the main milestones of INNOVAMARE consists of the development of a cross-border interactive web network platform, that will enable cooperation, collaboration, exchange of knowledge and information among different stakeholders for the development of innovative technological solutions.
Given the relevance of the platform, Regional Union of the Chambers of Commerce of Veneto Region (UCV) has developed a series of actions to support its design and development process in a participatory mode: two Focus group sessions of 2 hours each were organized, involving different stakeholders already taking part in project activities, in order to better address all potential needs.

THE FIRST FOCUS GROUP MEETING – 21/07/2021
The first meeting was held online on the 21st of July and 21 participants attended.
The meeting was divided in two parts, with presentations of the scope of the focus group, of the web platform and of the design & development process in the first hour, while the second was dedicated to questions, answers and feedbacks gathering.

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THE SECOND FOCUS GROUP MEETING – 28/10/2021
The second meeting was held in Sibenik on the 28th of October during the 5- days Workshop "CREATIVE APPROACH TO DIGITAL INNOVATION HUB DEFINITION".
The first part of the meeting was dedicated to a presentation about the best practices concerning web platforms functionalities, with a importance given to the platform's governance processes and roles. The platform Innocentive was presented as a success case suggested by one of the participants during the first FG meeting and the main features and functions of Innocentive were discussed as a basis for the development of web platform.
The focus of the second part was on web platform features and on some key elements such as security permissions and access for specific roles and groups; relevant suggestions were given by the participants and should be taken into consideration in the upcoming design & development phase of the web platform. The last part of the meeting was dedicated to the illustration of the design of web platform made by Mateo Ivanac and of his presentation of some core sections of the platform, then again room was made for suggestions and comments from the partners that will be taken into account during the next phase. The participants agreed to take part into a beta test of web platform that should be organized by the LP within January 2022.

Description and content of the web platform

a. About us
b. Contact us
c. Services
d. Become a member
e. Upgrade membership
f. Pages with the registartion forms – Private sector, Public sector, NGO, Experts, Scientific Research
g. Marketplace
h. Home page -> Education, Collaboration, Technology transfer, Idea tunnel -
i. FAQ
j. Submit idea
k. Newsletter : Sign up for the Newsletter and find out all the news

About us

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Innovamare interactive web platform is the main place for transformation of the blue economy! It connects companies, institutions, researchers, experts and users from private, scientific, civil and public sector in order to tackle challenges related to the mission of sustainability of the Adriatic Sea by using solutions of underwater robotics and sensorics. It is a unique approach for collaboration and cooperation of key stakeholders in maritime technologies.

The main purpose of Innovamare platform is to support the creation, development and maintenance of innovation and entrepreneurship ecosystem and the central point for the realization and organization of services within the digital innovation hub (DIH) for underwater robotics and sensorics.

Services

- Test before invest – Support in a form of services related to technical expertise and experimentation. Companies may demonstrate the functionality of their products in order to give users first impressions. Services provided by the platform are aimed at:
    - New concepts design and validation
    - Adaptation of existing technologies to novel applications
    - TRL(S) validation
- Skills and training – Services aimed for preparatory and upskilling employees in the field of underwater robotics by providing online modules, auditorium meetings, access to water, robots and related tech through:
    - Academy Innovamare
    - Info engagement
- Support to find investment – Support related to funding services aimed at helping other organisations creating competitive research proposals, giving support in e.g. open calls and brokering funding by digital platform, events and education.
    - Providing funding opportunities
- Innovation ecosystem and networking – Groups of services enabling different entities to build networks to support their specific needs such as structured relationships with other entities business or scientific, regional authorities, industrial clusters, SME associations, business development. Groups of services include:
    - Matchmaking/networking
    - Innovamare community/Info engagement
    - Finding solution for your challenge

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- Additional services – Services aimed at solving specific needs in the field of underwater robotics such as:
    - Project management
    - Citizens science / civil engagement
    - Tech foresight and market intelligence
    - Business model development for SME
    - Data service

Become a member

Innovamare platform users are experts from the innovation and business ecosystem which participate as innovators, researchers and solution providers in underwater robotics and sensors. Also, the users are stakeholders seeking or in need of solutions from the domain of underwater robotics and sensors in the function of sustainability of the sea:

- Companies looking for research and development institutions to develop new products and services
- Research and development institutions that would like to cooperate with companies
- Local and regional governments looking for solutions to prevent and address marine pollution
- Research institutions, companies or other organizations looking for partners in EU projects or developing new EU projects in the field of sustainability and ecology of the sea
- Research institutions, companies or other organizations interested in cooperation in the innovation ecosystem
- External stakeholders, such as financing institutions, private equity funds, venture capital funds, bearers decision and other interested stakeholders

What's in it for you?

- empowering your knowledge with smart and innovative services
- we find the right challenge for you to solve by understanding your skills and expertise
- bringing you a market for your solutions
- funding opportunities for your ideas

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Market place

Innovamare marketplace is focused on a specific niche related to the innovation ecosystem - the field of underwater robotics and sensorics with a tendency to expand to the technologies that are closely related to the DIH mission - the sustainability of the Adriatic Sea.

It is a place where offers for projects/ideas/technology transfer/ products and services, search of funding schemes for innovative projects, products and service, meet request.

Submit idea

Economic growth and activation of the innovation potential can best be achieved through the cooperation of the business and scientific-research sectors by encouraging joint innovative projects. Sumbit idea is a place where one can look for a collaborative project or suggest a project idea to find a partner.
The database provides information on stakeholders of the innovation system in the field of private and scientific-research sector seeking business cooperation with the aim of implementing projects in the field of research, development and innovation.
Applicants can also, through the database, through clearly defined forms, REQUEST and OFFER business cooperation related to technology transfer.
To get an idea of the steps you need to find what you are looking for, we offer you an overview of a few published project ideas.

Free online service to entrepreneurs and the science sector provides the opportunity of:

- presenting innovative ideas of your company / scientific institution
- presenting technological solutions
- seeking partnerships
- search for technological solutions

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Official web platform infographic

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MARKET PLACE and forms

- protected part: input and visibility (RP, RP)
o Everything that is entered can be seen on the protected part. If "publish idea in public" is included, only part of the information is displayed.

- public part: input and visibility (PC)
o Everything that is entered can be seen in the public part. Refers to unregistered users looking for a partner / reporting an idea.

- PC- Public Content, no registration needed
- RF- Registrated member, Freemium
- RP- Registrated member, Premium

Obligatory field (marked*)
X – indicate which level of data a particular type of user can see (RP, RF, PC)

Below are the examples of Submit Idea that are Request/Offer or search for project partners, and on interactive web platforme there will also other options available, as described previously in this document.

SUBMIT IDEA

Data	Decription	RP	RF	PC
Information about the proposer of the project idea				
Organization that submits idea				
Type of organization	• Private sector ▪ Micro ▪ Small ▪ Medium ▪ Large ○ NACE Code • Scientific Research ▪ University			

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Data	Decription	RP	RF	PC
	▪ Research Centre ▪ Scientific Park ▪ Incubator ▪ Accelerator ▪ Consultant • Public sector ▪ Ministry ▪ Regional Authority ▪ Local Government ▪ BSO ▪ NGO • Other: please specify			
Location	• Country • County/Region • City			
Name and surname of the proposer/contact person	Enter or withdraw from the profile			
Organization where the applicant is employed	Enter or withdraw from the profile			
Address	Enter or withdraw from the profile			
Phone	optional			
e-mail	Enter or withdraw from the profile			
Request/Offer	Choose category			
Type of cooperation	• a partner for an existing project idea • a project they could join • assistance in the commercialization of research • analysis, contract research, etc. • research services / laboratory equipment • assistance in product / prototype development			

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Data	Decription	RP	RF	PC
	• experts with specific knowledge / expertise • (consulting) expertise			
Idea title	It becomes the title under which it is published			
Work area	The area in which the project idea fits. Multiple areas can be selected (up to 3). These areas are the tags used in the search engine to market ideas. Possible areas are: • Blue Economy ○ Living resources • LR1 Harvesting sector • LR2 Aquaculture • LR3 Processing and preserving of fish, crustaceans and molluscs • LR4 Retail sale of fish, crustaceans and molluscs in specialised stores • LR5 Wholesale of other food, including fish, crustaceans and molluscs ▪ Offshore oil and gas • OG1 Extraction of crude petroleum • OG2 Extraction of natural gas • OG3 Support activities for petroleum and			

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Data	Decription	RP	RF	PC
	natural gas extraction ▪ Port activities • PA1 Cargo handling • PA2 Warehousing and storage • PA3 Construction of water projects • PA4 Service activities incidental to water transportation ▪ Shipbuilding and repair • SR1 Building of ships and floating structures • SR2 Building of pleasure and sporting boats • SR3 Repair and maintenance of ships and boats ▪ Maritime transport • MT1 Sea and coastal passenger water transport • MT2 Sea and coastal freight water transport • MT3 Inland passenger water transport • MT4 Inland freight water transport			

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Data	Decription	RP	RF	PC
	• MT5 Renting and leasing of water transport equipment ▪ Coastal tourism • CT1 Hotels and similar accommodation • CT2 Holiday and other short-stay accommodation • CT3 Camping grounds, recreational vehicle parks and trailer parks • CT4 Other accommodation • CT5 Transport • CT6 Other expenditure ▪ ES1 Renewable Energy ▪ ES2 Deep-seabed mining ▪ ES3 Desalination ▪ ES4 Defence and Security ▪ ES5 Biotechnology ▪ ES6 Environmental protection ▪ ES7 Ecosystem services ▪ ES8 Natural capital ▪ ES9 Multiuse platforms ▪ ES10 Research and education ○ Other (specify)			

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Data	Decription	RP	RF	PC

	• Scientific Domain
	  ○ Physical Sciences and Engineering
	  ▪ PE1 Mathematics
	  ▪ PE2 Fundamental Constituents of Matter
	  ▪ PE3 Condensed Matter Physics
	  ▪ PE4 Physical and Analytical Chemical Sciences
	  ▪ PE5 Synthetic Chemistry and Materials
	  ▪ PE6 Computer Science and Informatics
	  ▪ PE7 Systems and Communication Engineering
	  ▪ PE8 Products and Processes Engineering
	  ▪ PE9 Universe Sciences
	  ▪ PE10 Earth System Science
	  ○ Life Sciences
	  ▪ LS1 Molecular Biology, Biochemistry, Structural Biology and Molecular Biophysics
	  ▪ LS2 Genetics, 'Omics', Bioinformatics and Systems Biology
	  ▪ LS3 Cellular and Developmental Biology
	  ▪ LS4 Physiology, Pathophysiology and Endocrinology
	  ▪ LS5 Neuroscience and Neural Disorders
	  ▪ LS6 Immunity and Infection			

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Data	Decription	RP	RF	PC
	▪ LS7 Applied Medical Technologies, Diagnostics, Therapies and Public Health ▪ LS8 Ecology, Evolution and Environmental Biology ▪ LS9 Applied Life Sciences, Biotechnology, and Molecular and Biosystems Engineering ○ Social Sciences and Humanities ▪ SH1 Individuals, Markets and Organisations ▪ SH2 Institutions, Values, Environment and Space ▪ SH3 The Social World, Diversity, Population ▪ SH4 The Human Mind and Its Complexity ▪ SH5 Cultures and Cultural Production ▪ SH6 The Study of the Human Past ○ Other (specify) • MSFD Descriptor (info kućica sa opisom) ○ D1 Biodiversity ○ D2 Non-indigenous species ○ D3 Populations of commercially exploited fish and shellfish ○ D4 Pelagic food webs ○ D5 Eutrophication ○ D6 Sea floor integrity ○ D7 Hydrographic conditions ○ D8 Contaminants ○ D9 Contaminants in food ○ D10 Marine litter			

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Data	Decription	RP	RF	PC
	○ D11 Underwater noise ○ Other (specify) • Value Chain Position ○ Inputs and raw materials ▪ VCI1 - Inputs and raw materials - General ▪ VCI2 - Inputs and raw materials - Special ○ Components manufacturing ▪ VCC1 - Components manufacturing - SW Components ▪ VCC2 - Components manufacturing - HW Components ▪ VCC3 - Components manufacturing - ROV/AUV Components & Tooling ○ Production ▪ VCP1 - Production - ROV/AUV/Sensor Manufacturing ▪ VCP2 - Production - Auxiliary and sub-system products ▪ VCP3 - Production - Integrated systems manufacturing ▪ VCP4 - Production - Peripheral services and logistics ○ Distribution ▪ VCD1 - Distribution - Marketing & Distribution			

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Data	Decription	RP	RF	PC
	▪ VCD2 - Distribution - After Sales Customer Support & Technical Training ○ Sales ▪ VCS1 - Sales - ROV/AUV operators & Survey Firms ○ Support bodies ▪ VCB1 - Support bodies - Education & Research ▪ VCB2 - Support bodies - Government ▪ VCB3 - Support bodies - BSO, Clusters, Associations ▪ VCB4 - Support bodies - Financial Networks ○ Customers or Buyers ▪ VCC1 - Customers or Buyers - Scientific Research ▪ VCC2 - Customers or Buyers - Defence/Port Security ▪ VCC3 - Customers or Buyers - Offshore Energy & Installations ▪ VCC4 - Customers or Buyers - Fisheries and Aquaculture ▪ VCC5 - Customers or Buyers - Maritime Governance ▪ VCC6 - Customers or Buyers - Marine Environment and Depollution ○ Other (specify)			
Place of implementation of a possible future project	One location is entered and up to 200 characters are descriptive			
Description of idea	The idea description is entered up to 2000 characters			

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Data	Decription	RP	RF	PC
Main activities				
Goals				
Expected results				
Duration	Estimated duration of a possible future project.			
Attachments	Documents attached to the idea. Documents are visible only inside the protected part for RF/RP			
Public part	Publication of the idea in the public part of the web platform. (registered user chooses whether to publish the idea in public)			
Publication date	Day, month and year of publication of the idea. (automatic)			
Time of publication	Hours and minutes of publishing ideas. (automatic)			

☐ ***Publish idea in Market place for public***

SEARCH FOR PROJECT PARTNER

Data	Decription	RP	RF	PC
Information about the searcher				
Organization searching for partner				
Type of organization	• Private sector ▪ Micro ▪ Small ▪ Medium ▪ Large ○ NACE Code • Scientific Research ▪ University ▪ Research Centre ▪ Scientific Park ▪ Incubator			

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Data	Decription	RP	RF	PC
	▪ Accelerator ▪ Consultant • Public sector ▪ Ministry ▪ Regional Authority ▪ Local Government ▪ BSO ▪ NGO • Other (specify)			
Location	• Country • County/Region • City			
Name and surname of the individual who is searching for partner	Enter or withdraw from the profile			
Organization where the individual is employed	Enter or withdraw from the profile			
Address	Enter or withdraw from the profile			
Phone	optional			
e-mail	Enter or withdraw from the profile			
Request/Offer	Choose category			
Type of cooperation	• a project that could join • assistance in the commercialization of research • analysis, contract research, etc. • research services / laboratory equipment • assistance in product / prototype development • experts with specific knowledge / expertise • (consulting) expertise			

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Data	Decription	RP	RF	PC
	• Other (specify)			
Work area	Multiple areas can be selected (up to 3). These areas are the tags used in the search engine to market place. Possible areas are: • Blue Economy ○ Living resources • LR1 Harvesting sector • LR2 Aquaculture • LR3 Processing and preserving of fish, crustaceans and molluscs • LR4 Retail sale of fish, crustaceans and molluscs in specialised stores • LR5 Wholesale of other food, including fish, crustaceans and molluscs ▪ Offshore oil and gas • OG1 Extraction of crude petroleum • OG2 Extraction of natural gas • OG3 Support activities for petroleum and natural gas extraction ▪ Port activities • PA1 Cargo handling			

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Data	Decription	RP	RF	PC
	• PA2 Warehousing and storage • PA3 Construction of water projects • PA4 Service activities incidental to water transportation ▪ Shipbuilding and repair • SR1 Building of ships and floating structures • SR2 Building of pleasure and sporting boats • SR3 Repair and maintenance of ships and boats ▪ Maritime transport • MT1 Sea and coastal passenger water transport • MT2 Sea and coastal freight water transport • MT3 Inland passenger water transport • MT4 Inland freight water transport • MT5 Renting and leasing of water transport equipment ▪ Coastal tourism			

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Data	Decription	RP	RF	PC
	• CT1 Hotels and similar accommodation • CT2 Holiday and other short-stay accommodation • CT3 Camping grounds, recreational vehicle parks and trailer parks • CT4 Other accommodation • CT5 Transport • CT6 Other expenditure ▪ ES1 Renewable Energy ▪ ES2 Deep-seabed mining ▪ ES3 Desalination ▪ ES4 Defence and Security ▪ ES5 Biotechnology ▪ ES6 Environmental protection ▪ ES7 Ecosystem services ▪ ES8 Natural capital ▪ ES9 Multiuse platforms ▪ ES10 Research and education • Scientific Domain ○ Physical Sciences and Engineering ▪ PE1 Mathematics ▪ PE2 Fundamental Constituents of Matter			

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Data	Decription	RP	RF	PC
	▪ PE3 Condensed Matter Physics ▪ PE4 Physical and Analytical Chemical Sciences ▪ PE5 Synthetic Chemistry and Materials ▪ PE6 Computer Science and Informatics ▪ PE7 Systems and Communication Engineering ▪ PE8 Products and Processes Engineering ▪ PE9 Universe Sciences ▪ PE10 Earth System Science ○ Life Sciences ▪ LS1 Molecular Biology, Biochemistry, Structural Biology and Molecular Biophysics ▪ LS2 Genetics, 'Omics', Bioinformatics and Systems Biology ▪ LS3 Cellular and Developmental Biology ▪ LS4 Physiology, Pathophysiology and Endocrinology ▪ LS5 Neuroscience and Neural Disorders ▪ LS6 Immunity and Infection ▪ LS7 Applied Medical Technologies, Diagnostics, Therapies and Public Health ▪ LS8 Ecology, Evolution and Environmental Biology			

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Data	Decription	RP	RF	PC
	▪ LS9 Applied Life Sciences, Biotechnology, and Molecular and Biosystems Engineering ○ Social Sciences and Humanities ▪ SH1 Individuals, Markets and Organisations ▪ SH2 Institutions, Values, Environment and Space ▪ SH3 The Social World, Diversity, Population ▪ SH4 The Human Mind and Its Complexity ▪ SH5 Cultures and Cultural Production ▪ SH6 The Study of the Human Past • MSFD Descriptor ○ D1 Biodiversity ○ D2 Non-indigenous species ○ D3 Populations of commercially exploited fish and shellfish ○ D4 Pelagic food webs ○ D5 Eutrophication ○ D6 Sea floor integrity ○ D7 Hydrographic conditions ○ D8 Contaminants ○ D9 Contaminants in food ○ D10 Marine litter ○ D11 Underwater noise • Value Chain Position ○ Inputs and raw materials ▪ VCI1 - Inputs and raw materials - General ▪ VCI2 - Inputs and raw materials - Special			

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Data	Decription	RP	RF	PC
	○ Components manufacturing ▪ VCC1 - Components manufacturing - SW Components ▪ VCC2 - Components manufacturing - HW Components ▪ VCC3 - Components manufacturing - ROV/AUV Components & Tooling ○ Production ▪ VCP1 - Production - ROV/AUV/Sensor Manufacturing ▪ VCP2 - Production - Auxiliary and sub-system products ▪ VCP3 - Production - Integrated systems manufacturing ▪ VCP4 - Production - Peripheral services and logistics ○ Distribution ▪ VCD1 - Distribution - Marketing & Distribution ▪ VCD2 - Distribution - After Sales Customer Support & Technical Training ○ Sales ▪ VCS1 - Sales - ROV/AUV operators & Survey Firms ○ Support bodies ▪ VCB1 - Support bodies - Education & Research			

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Data	Decription	RP	RF	PC
	▪ VCB2 - Support bodies - Government ▪ VCB3 - Support bodies - BSO, Clusters, Associations ▪ VCB4 - Support bodies - Financial Networks ○ Customers or Buyers ▪ VCC1 - Customers or Buyers - Scientific Research ▪ VCC2 - Customers or Buyers - Defence/Port Security ▪ VCC3 - Customers or Buyers - Offshore Energy & Installations ▪ VCC4 - Customers or Buyers - Fisheries and Aquaculture ▪ VCC5 - Customers or Buyers - Maritime Governance ▪ VCC6 - Customers or Buyers - Marine Environment and Depollution			
What do you search for (describe)	Number of characters			

☐ ***Publish search for partner in Market place for public***

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Map of Excellence (MoE) and forms

PRIVATE SECTOR (organization form):

Upload logo/photo	
Name of the organization	
Type	▪ Micro ▪ Small ▪ Medium ▪ Large
Web address	
Location (address)	
Country	
Contact	
Email	
Phone	
Affiliation	• Blue Economy (multiple choice up to 3) ○ Living resources • LR1 Harvesting sector • LR2 Aquaculture • LR3 Processing and preserving of fish, crustaceans and molluscs • LR4 Retail sale of fish, crustaceans and molluscs in specialised stores • LR5 Wholesale of other food, including fish, crustaceans and molluscs ▪ Offshore oil and gas • OG1 Extraction of crude petroleum • OG2 Extraction of natural gas • OG3 Support activities for petroleum and natural gas extraction ▪ Port activities • PA1 Cargo handling • PA2 Warehousing and storage

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	• PA3 Construction of water projects • PA4 Service activities incidental to water transportation ▪ Shipbuilding and repair • SR1 Building of ships and floating structures • SR2 Building of pleasure and sporting boats • SR3 Repair and maintenance of ships and boats ▪ Maritime transport • MT1 Sea and coastal passenger water transport • MT2 Sea and coastal freight water transport • MT3 Inland passenger water transport • MT4 Inland freight water transport • MT5 Renting and leasing of water transport equipment ▪ Coastal tourism • CT1 Hotels and similar accommodation • CT2 Holiday and other short-stay accommodation • CT3 Camping grounds, recreational vehicle parks and trailer parks • CT4 Other accommodation • CT5 Transport • CT6 Other expenditure ▪ ES1 Renewable Energy ▪ ES2 Deep-seabed mining ▪ ES3 Desalination ▪ ES4 Defence and Security

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	▪ ES5 Biotechnology ▪ ES6 Environmental protection ▪ ES7 Ecosystem services ▪ ES8 Natural capital ▪ ES9 Multiuse platforms ▪ ES10 Research and education ▪ Other (specify) • MSFD Descriptor (multiple choice up to 3) ○ D1 Biodiversity ○ D2 Non-indigenous species ○ D3 Populations of commercially exploited fish and shellfish ○ D4 Pelagic food webs ○ D5 Eutrophication ○ D6 Sea floor integrity ○ D7 Hydrographic conditions ○ D8 Contaminants ○ D9 Contaminants in food ○ D10 Marine litter ○ D11 Underwater noise ○ Other (specify) • Value Chain Position (multiple choice up to 3) ○ Inputs and raw materials ▪ VCI1 - Inputs and raw materials - General ▪ VCI2 - Inputs and raw materials - Special ○ Components manufacturing ▪ VCC1 - Components manufacturing - SW Components ▪ VCC2 - Components manufacturing - HW Components ▪ VCC3 - Components manufacturing - ROV/AUV Components & Tooling ○ Production ▪ VCP1 - Production - ROV/AUV/Sensor Manufacturing

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	▪ VCP2 - Production - Auxiliary and sub-system products ▪ VCP3 - Production - Integrated systems manufacturing ▪ VCP4 - Production - Peripheral services and logistics ○ Distribution ▪ VCD1 - Distribution - Marketing & Distribution ▪ VCD2 - Distribution - After Sales Customer Support & Technical Training ○ Sales ▪ VCS1 - Sales - ROV/AUV operators & Survey Firms ○ Support bodies ▪ VCB1 - Support bodies - Education & Research ▪ VCB2 - Support bodies - Government ▪ VCB3 - Support bodies - BSO, Clusters, Associations ▪ VCB4 - Support bodies - Financial Networks ○ Customers or Buyers ▪ VCC1 - Customers or Buyers - Scientific Research ▪ VCC2 - Customers or Buyers - Defence/Port Security ▪ VCC3 - Customers or Buyers - Offshore Energy & Installations ▪ VCC4 - Customers or Buyers - Fisheries and Aquaculture ▪ VCC5 - Customers or Buyers - Maritime Governance ▪ VCC6 - Customers or Buyers - Marine Environment and Depollution ○ Other (specify)

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SCIENTIFIC RESEARCH (organization form):

Upload logo/photo	
Name of the organization	
Type	• Scientific Research ▪ University ▪ Research Centre ▪ Scientific Park ▪ Incubator ▪ Accelerator ▪ Consultant ▪ Other (specify)
Web address	
Location (address)	
Country	
Contact	
Email	
Phone	
Affiliation	• Scientific Domain (multiple choice up to 3) ○ Physical Sciences and Engineering ▪ PE1 Mathematics ▪ PE2 Fundamental Constituents of Matter ▪ PE3 Condensed Matter Physics ▪ PE4 Physical and Analytical Chemical Sciences ▪ PE5 Synthetic Chemistry and Materials ▪ PE6 Computer Science and Informatics ▪ PE7 Systems and Communication Engineering ▪ PE8 Products and Processes Engineering ▪ PE9 Universe Sciences ▪ PE10 Earth System Science ○ Life Sciences ▪ LS1 Molecular Biology, Biochemistry, Structural Biology and Molecular Biophysics ▪ LS2 Genetics, 'Omics', Bioinformatics and Systems Biology

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PUBLIC SECTOR (organization form):

Upload logo/photo	
Name of the organization	
Type	▪ Ministry ▪ Regional Authority ▪ Local Government ▪ BSO ▪ Other (specify)
Web address	
Location (address)	
Country	
Contact	
Email	
Phone	
Affiliation	• Blue Economy (multiple choice up to 3) ○ Living resources • LR1 Harvesting sector • LR2 Aquaculture • LR3 Processing and preserving of fish, crustaceans and molluscs • LR4 Retail sale of fish, crustaceans and molluscs in specialised stores • LR5 Wholesale of other food, including fish, crustaceans and molluscs ▪ Offshore oil and gas • OG1 Extraction of crude petroleum • OG2 Extraction of natural gas • OG3 Support activities for petroleum and natural gas extraction ▪ Port activities

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	▪ ES3 Desalination ▪ ES4 Defence and Security ▪ ES5 Biotechnology ▪ ES6 Environmental protection ▪ ES7 Ecosystem services ▪ ES8 Natural capital ▪ ES9 Multiuse platforms ▪ ES10 Research and education ▪ Other (specify) • MSFD Descriptor o D1 Biodiversity o D2 Non-indigenous species o D3 Populations of commercially exploited fish and shellfish o D4 Pelagic food webs o D5 Eutrophication o D6 Sea floor integrity o D7 Hydrographic conditions o D8 Contaminants o D9 Contaminants in food o D10 Marine litter o D11 Underwater noise o Other (specify) • Value Chain Position o Inputs and raw materials ▪ VCI1 - Inputs and raw materials - General ▪ VCI2 - Inputs and raw materials - Special o Components manufacturing ▪ VCC1 - Components manufacturing - SW Components ▪ VCC2 - Components manufacturing - HW Components ▪ VCC3 - Components manufacturing - ROV/AUV Components & Tooling o Production ▪ VCP1 - Production - ROV/AUV/Sensor Manufacturing

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	▪ VCP2 - Production - Auxiliary and sub-system products ▪ VCP3 - Production - Integrated systems manufacturing ▪ VCP4 - Production - Peripheral services and logistics ○ Distribution ▪ VCD1 - Distribution - Marketing & Distribution ▪ VCD2 - Distribution - After Sales Customer Support & Technical Training ○ Sales ▪ VCS1 - Sales - ROV/AUV operators & Survey Firms ○ Support bodies ▪ VCB1 - Support bodies - Education & Research ▪ VCB2 - Support bodies - Government ▪ VCB3 - Support bodies - BSO, Clusters, Associations ▪ VCB4 - Support bodies - Financial Networks ○ Customers or Buyers ▪ VCC1 - Customers or Buyers - Scientific Research ▪ VCC2 - Customers or Buyers - Defence/Port Security ▪ VCC3 - Customers or Buyers - Offshore Energy & Installations ▪ VCC4 - Customers or Buyers - Fisheries and Aquaculture ▪ VCC5 - Customers or Buyers - Maritime Governance ▪ VCC6 - Customers or Buyers - Marine Environment and Depollution ○ Other (specify)

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NGO (organization form):

Upload logo/photo	
Name of the organization	
Name of the responsible person	
Number of members	
Web address	
Location (address)	
Country	
Contact person	
Email	
Phone	
Affiliation (multiple choice up to 3)	• Blue Economy (multiple choice up to 3) ○ Living resources • LR1 Harvesting sector • LR2 Aquaculture • LR3 Processing and preserving of fish, crustaceans and molluscs • LR4 Retail sale of fish, crustaceans and molluscs in specialised stores • LR5 Wholesale of other food, including fish, crustaceans and molluscs ▪ Offshore oil and gas • OG1 Extraction of crude petroleum • OG2 Extraction of natural gas • OG3 Support activities for petroleum and natural gas extraction ▪ Port activities • PA1 Cargo handling • PA2 Warehousing and storage • PA3 Construction of water projects

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	▪ ES7 Ecosystem services ▪ ES8 Natural capital ▪ ES9 Multiuse platforms ▪ ES10 Research and education ▪ Other (specify) • MSFD Descriptor (multiple choice up to 3) ○ D1 Biodiversity ○ D2 Non-indigenous species ○ D3 Populations of commercially exploited fish and shellfish ○ D4 Pelagic food webs ○ D5 Eutrophication ○ D6 Sea floor integrity ○ D7 Hydrographic conditions ○ D8 Contaminants ○ D9 Contaminants in food ○ D10 Marine litter ○ D11 Underwater noise ○ Other (specify) • Value Chain Position (multiple choice up to 3) ○ Inputs and raw materials ▪ VCI1 - Inputs and raw materials - General ▪ VCI2 - Inputs and raw materials - Special ○ Components manufacturing ▪ VCC1 - Components manufacturing - SW Components ▪ VCC2 - Components manufacturing - HW Components ▪ VCC3 - Components manufacturing - ROV/AUV Components & Tooling ○ Production ▪ VCP1 - Production - ROV/AUV/Sensor Manufacturing ▪ VCP2 - Production - Auxiliary and sub-system products

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EXPERTS (key individuals form)
Note: within each form by sector, the organization can enter a list of multiple experts - after filling out the form for one, allow you to enter the next – button **Add expert**

Name	

Affiliation to the organization	• Private sector
	  ○ name of organization (optional)
	• Scientific Research
	  ○ name of organization (optional)
	• Public sector
	  ○ name of organization (optional)
	• NGO
	  ○ name of organization (optional)

Country	
Email	
Phone	
Describe your expertise (specialization) - (decide on number of characters)	

Affiliation	• Blue Economy (multiple choice up to 3)
	  ○ Living resources
	  • LR1 Harvesting sector
	  • LR2 Aquaculture
	  • LR3 Processing and preserving of fish, crustaceans and molluscs
	  • LR4 Retail sale of fish, crustaceans and molluscs in specialised stores
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	  ▪ Offshore oil and gas
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	▪ LS8 Ecology, Evolution and Environmental Biology ▪ LS9 Applied Life Sciences, Biotechnology, and Molecular and Biosystems Engineering ○ Social Sciences and Humanities ▪ SH1 Individuals, Markets and Organisations ▪ SH2 Institutions, Values, Environment and Space ▪ SH3 The Social World, Diversity, Population ▪ SH4 The Human Mind and Its Complexity ▪ SH5 Cultures and Cultural Production ▪ SH6 The Study of the Human Past ○ Other (specify) *

* if relevant: Specialization refers to the main competence; for example: "software development for underwater navigation"

➢ Please use this link for detecting ERC scientific domain: https://erc.europa.eu/sites/default/files/document/file/ERC_Panel_structure_2020.pdf

- Button **Add expert**

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PROJECTS

Note: within each form by sector, the organization can enter a list of several projects - after filling in the form for one allow you to enter the next - at the end of the form - button **Add project**

Please indicate maximum up to 5 research projects + 5 society projects in the last 5 years (button Add Project)

Project name	
Project value	
Type	• Research • Society (i.e. public speeches; public events for citizens; educational events for students.
Status	• Ongoing • Finished

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Organisation linked to project	
Website (if any)	

Funding program	• EU funds
	  ○ HORIZON 2020
	  ○ Interreg
	  ○ ERDF (European Regional Development Fund)
	  ○ EMFF (European Maritime and Fisheries Fund)
	  ○ LIFE (Environmental and climate action)
	  ○ IPA II (Instrument for pre-accession assistance)
	  ○ FP7 (Seventh Framework Programme)
	• National/Regional
	  ○ Regional project
	  ○ National Defence
	  ○ HAMAG/BICRO
	  ○ The Environmental Protection and Energy Efficiency Fund (EPEEF)
	  ○ Croatian Bank for Reconstruction and Development (HBOR)
	  ○ ISPRA (Italian National Institute for Environmental Protection and Research)
	  ○ MIUR (Ministry of Education, Universities and Research-Italy)
	  ○ POR (Programmi Operativi Regionali)
	• Other
	  ○ Private Equity
	  ○ Investment fund
	  ○ Hedge fund
	  ○ Venture capital
	  ○ Angel Investors
	  ○ ESA (European Space Agency)

Lead partner	•
Country of LP	•
Project scope	•
Status	• Ongoing • Finished

Affiliation	• Blue Economy (multiple choice up to 3)
	  ▪ Living resources
	  • LR1 Harvesting sector

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	• LR2 Aquaculture • LR3 Processing and preserving of fish, crustaceans and molluscs • LR4 Retail sale of fish, crustaceans and molluscs in specialised stores • LR5 Wholesale of other food, including fish, crustaceans and molluscs ▪ Offshore oil and gas • OG1 Extraction of crude petroleum • OG2 Extraction of natural gas • OG3 Support activities for petroleum and natural gas extraction ▪ Port activities • PA1 Cargo handling • PA2 Warehousing and storage • PA3 Construction of water projects • PA4 Service activities incidental to water transportation ▪ Shipbuilding and repair • SR1 Building of ships and floating structures • SR2 Building of pleasure and sporting boats • SR3 Repair and maintenance of ships and boats ▪ Maritime transport • MT1 Sea and coastal passenger water transport • MT2 Sea and coastal freight water transport • MT3 Inland passenger water transport

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	• MT4 Inland freight water transport • MT5 Renting and leasing of water transport equipment ▪ Coastal tourism • CT1 Hotels and similar accommodation • CT2 Holiday and other short-stay accommodation • CT3 Camping grounds, recreational vehicle parks and trailer parks • CT4 Other accommodation • CT5 Transport • CT6 Other expenditure ▪ ES1 Renewable Energy ▪ ES2 Deep-seabed mining ▪ ES3 Desalination ▪ ES4 Defence and Security ▪ ES5 Biotechnology ▪ ES6 Environmental protection ▪ ES7 Ecosystem services ▪ ES8 Natural capital ▪ ES9 Multiuse platforms ▪ ES0 Research and education ▪ Other (specify) • Scientific Domain (multiple choice up to 3) ○ Physical Sciences and Engineering ▪ PE1 Mathematics ▪ PE2 Fundamental Constituents of Matter ▪ PE3 Condensed Matter Physics ▪ PE4 Physical and Analytical Chemical Sciences ▪ PE5 Synthetic Chemistry and Materials ▪ PE6 Computer Science and Informatics ▪ PE7 Systems and Communication Engineering

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	▪ PE8 Products and Processes Engineering ▪ PE9 Universe Sciences ▪ PE10 Earth System Science ○ Life Sciences ▪ LS1 Molecular Biology, Biochemistry, Structural Biology and Molecular Biophysics ▪ LS2 Genetics, 'Omics', Bioinformatics and Systems Biology ▪ LS3 Cellular and Developmental Biology ▪ LS4 Physiology, Pathophysiology and Endocrinology ▪ LS5 Neuroscience and Neural Disorders ▪ LS6 Immunity and Infection ▪ LS7 Applied Medical Technologies, Diagnostics, Therapies and Public Health ▪ LS8 Ecology, Evolution and Environmental Biology ▪ LS9 Applied Life Sciences, Biotechnology, and Molecular and Biosystems Engineering ○ Social Sciences and Humanities ▪ SH1 Individuals, Markets and Organisations ▪ SH2 Institutions, Values, Environment and Space ▪ SH3 The Social World, Diversity, Population ▪ SH4 The Human Mind and Its Complexity ▪ SH5 Cultures and Cultural Production ▪ SH6 The Study of the Human Past ○ Other (specify) • MSFD Descriptor (multiple choice up to 3) ○ D1 Biodiversity ○ D2 Non-indigenous species ○ D3 Populations of commercially exploited fish and shellfish

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	○ D4 Pelagic food webs ○ D5 Eutrophication ○ D6 Sea floor integrity ○ D7 Hydrographic conditions ○ D8 Contaminants ○ D9 Contaminants in food ○ D10 Marine litter ○ D11 Underwater noise ○ Other (specify)

- Button **Add project**

☐ ***Publish information in the Map of Excellence***

KEY RESOURCES

List of the key resources in the sector of underwater robotics and sensors that the company/institution would like to communicate to potential business and research partners.
Examples:

- infrastructures (R&D labs; testing labs; Fablabs; etc.)
- technologies (laser cutter; 3D metal printer; lidar technologies; etc.)
- intellectual property rights (patents; trademarks, etc.)
- technologies in which the organization has patents/ applied for patents

Resource type (multiple choice)	• Technology • Infrastructure • Know-how • Equipment • IPR • Network • Description of the resource (free text)
Linked organization	• Private sector ○ name of organization (optional) • Scientific Research ○ name of organization (optional)

SERVICES

Describe services (free text) – specify the number of characters

☐ ***Publish information in the Map of Excellence***

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FILTERS FOR MAP OF EXCELLENCE DATABASE

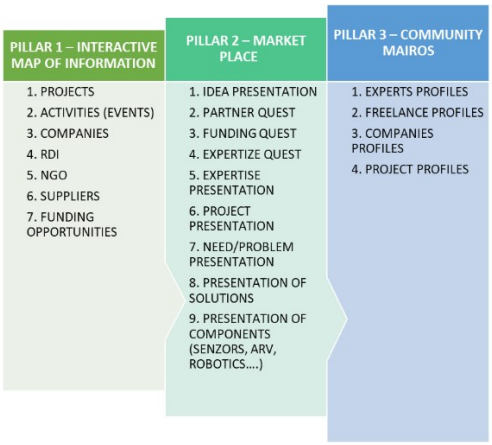
This document is to be used as technical supplement for IT contractor responsible for developing and realization of interactive Map of Excellence web application based on collection of data gathered during WP3 Activity 1 - Mapping of relevant stakeholders in underwater robotics and sensors, their capabilities (human, technological, projects, equipment), in order to create an interactive version of map of excellence.

During the process, a structured database has been created based on desk research and interview activities. According to the Methodological guidelines' documents, data have been inserted within Monday platform and structured into several boards:

- Organisations
- Key projects
- Key individuals
- Key platforms
- Key resources
- Classifiers (supplemental board)

Purpose of the document is to define set of classification filters and relationships categories, which may be applied to the database in order to filter out results and produce relevant information.

Map of excellence goal is to establish network of information and expertise by gathering and collecting data from stakeholders within the ecosystem (4-helix). Such information and expert network have three pillars: Interactive map of information, Market place and Community.



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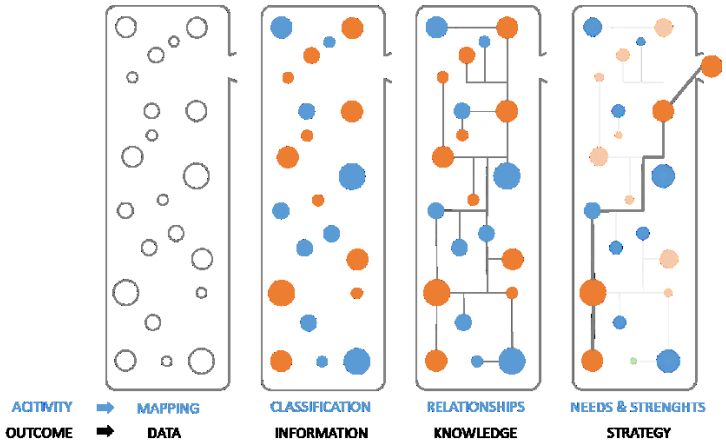
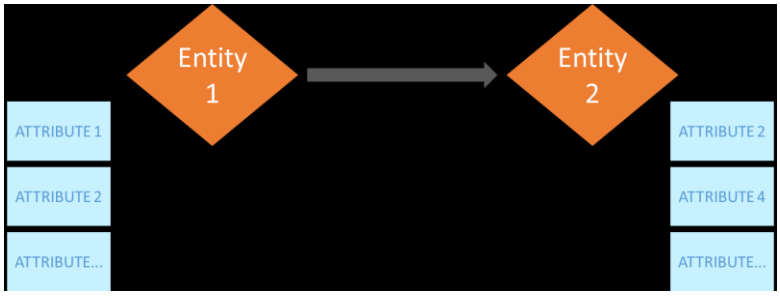
Mentioned board categories created within Monday platform (Organisations, Key projects, Key individuals, Key platforms and Key resources) correspondents to Pillar 1 – Interactive map of information categories (see above figure).

First step of data classification over applied filters would be expanded with creation of relationship links between various entities in order to create knowledge network, which may lead ultimately to defining of needs and strengths thus allowing creation of strategies (see figure below).



Possible solution for such approach to the strategy may be in a form of Knowledge graphs. The knowledge graph (KG) represents a collection of interlinked descriptions of entities – real-world objects, events, situations or abstract concepts – where:

- Descriptions have a **formal structure** that allows both people and computers to process them in an efficient and unambiguous manner;
- Entity descriptions contribute to one another through **relationships**, forming a **network**, where each entity represents part of the description of the entities, related to it.



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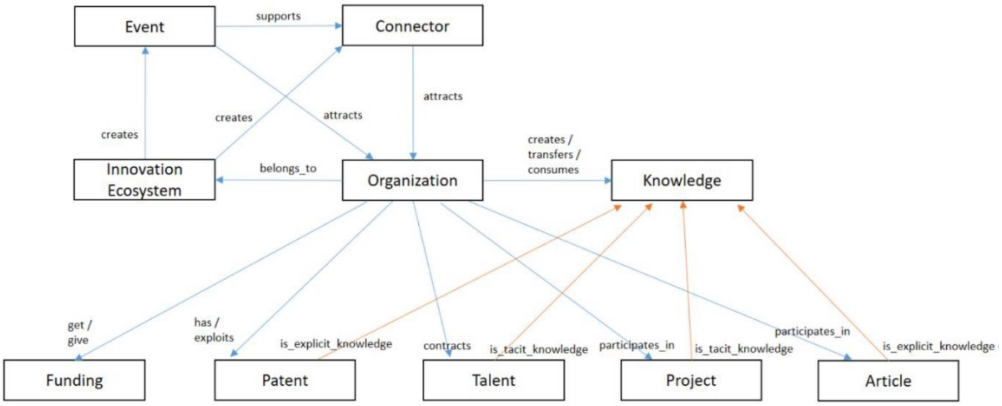
Example of relationship links.



Activities around stakeholder database would be based on several classification methods:

- **Search** (word or words) – based on one or several words,
- **Faceted search** - involves augmenting traditional search techniques with a faceted navigation system, allowing users to narrow down search results by applying multiple filters,
- **Filter** - select only those records that match certain criteria,
- **Sort** - arranging the data into some meaningful order,
- **Query** -requesting information from the database by select query retrieving data.

Filtering process needs to be able to provide results in a form of cluster or individual results about:

- Which areas of activities are most represented in relation of three organization types and key individuals?
- What are most represented areas of application of EU projects?
- What are most significant scientific domains related to key individuals (researchers)?
- What are most represented key resources and where can be found?
- Value chain position clustering
- Three organisation type geo-location clustering
- Linkages between organisations and individuals in form of business partnerships or join EU projects partnerships
- Which funding programs were used for participating projects?
- etc.

Hierarchical list of filters and attributes/relationship/entity lists are shown below.

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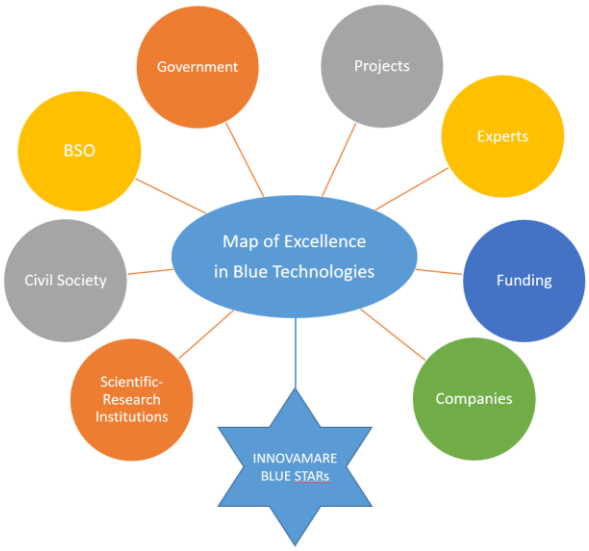
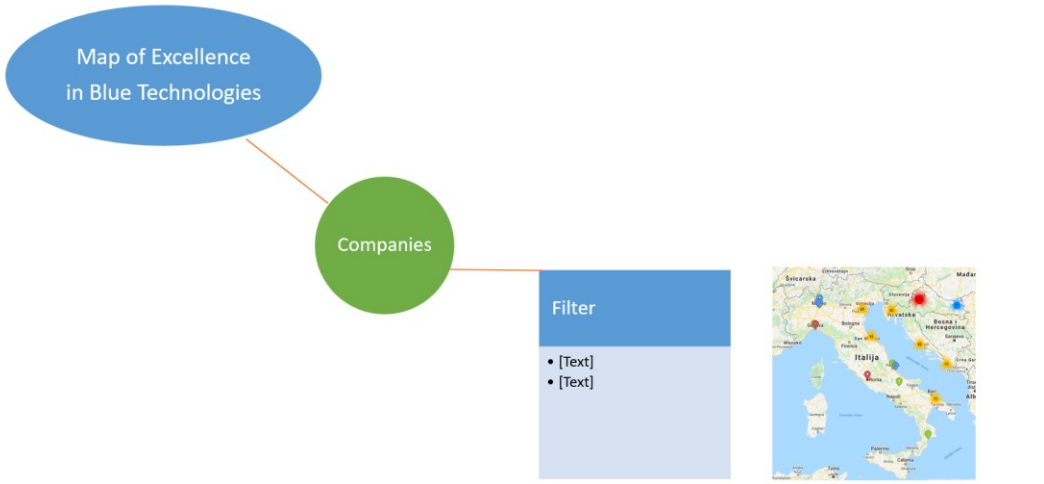


Detailed filtration

If you want to be a part of MoE, please, register or become a member of DIH

Link – quick registration Link

Entreprise



You might be interested in this

Projects | Experts | Challenges | Partnerships | ?

Napomena: sami ćemo dodavati nove i otvaraju se kao novi tab kako bi korisnik ostao i na prethodnoj stranici

Detailed filtration

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CATEGORY 1. - ORGANIZATIONS

TYPE OF ORGANIZATION

- Scientific Research (SCR)
  - Type of SCR
    - University
    - Research Centre
    - Scientific Park
    - Incubator
    - Accelerator
    - Consultant
- Private Sector (PRS)
  - Size
    - Micro
    - Small
    - Medium
    - Large
  - NACE Code
- Public Sector (PBS)
  - Type of PBS
    - Ministry
    - Regional Authority
    - Local Government
    - BSO
    - NGO

LOCATION

- Country
- County/Region
- City

AFFILIATION

- Blue Economy
  - Established sectors
    - Living resources
      - LR1 Harvesting sector
      - LR2 Aquaculture
      - LR3 Processing and preserving of fish, crustaceans and molluscs
      - LR4 Retail sale of fish, crustaceans and molluscs in specialised stores

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        - LR5 Wholesale of other food, including fish, crustaceans and molluscs
    - Offshore oil and gas
        - OG1 Extraction of crude petroleum
        - OG2 Extraction of natural gas
        - OG3 Support activities for petroleum and natural gas extraction
    - Port activities
        - PA1 Cargo handling
        - PA2 Warehousing and storage
        - PA3 Construction of water projects
        - PA4 Service activities incidental to water transportation
    - Shipbuilding and repair
        - SR1 Building of ships and floating structures
        - SR2 Building of pleasure and sporting boats
        - SR3 Repair and maintenance of ships and boats
    - Maritime transport
        - MT1 Sea and coastal passenger water transport
        - MT2 Sea and coastal freight water transport
        - MT3 Inland passenger water transport
        - MT4 Inland freight water transport
        - MT5 Renting and leasing of water transport equipment
    - Coastal tourism
        - CT1 Hotels and similar accommodation
        - CT2 Holiday and other short-stay accommodation
        - CT3 Camping grounds, recreational vehicle parks and trailer parks
        - CT4 Other accommodation
        - CT5 Transport
        - CT6 Other expenditure
- Emerging sectors
    - ES1 Renewable Energy
    - ES2 Deep-seabed mining
    - ES3 Desalination
    - ES4 Defence and Security
    - ES5 Biotechnology
    - ES6 Environmental protection
    - ES7 Ecosystem services

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        - ES8 Natural capital
        - ES9 Multiuse platforms
        - ES10 Research and education
- Scientific Domain
    - Physical Sciences and Engineering
        - PE1 Mathematics
        - PE2 Fundamental Constituents of Matter
        - PE3 Condensed Matter Physics
        - PE4 Physical and Analytical Chemical Sciences
        - PE5 Synthetic Chemistry and Materials
        - PE6 Computer Science and Informatics
        - PE7 Systems and Communication Engineering
        - PE8 Products and Processes Engineering
        - PE9 Universe Sciences
        - PE10 Earth System Science
    - Life Sciences
        - LS1 Molecular Biology, Biochemistry, Structural Biology and Molecular Biophysics
        - LS2 Genetics, 'Omics', Bioinformatics and Systems Biology
        - LS3 Cellular and Developmental Biology
        - LS4 Physiology, Pathophysiology and Endocrinology
        - LS5 Neuroscience and Neural Disorders
        - LS6 Immunity and Infection
        - LS7 Applied Medical Technologies, Diagnostics, Therapies and Public Health
        - LS8 Ecology, Evolution and Environmental Biology
        - LS9 Applied Life Sciences, Biotechnology, and Molecular and Biosystems Engineering
    - Social Sciences and Humanities
        - SH1 Individuals, Markets and Organisations
        - SH2 Institutions, Values, Environment and Space
        - SH3 The Social World, Diversity, Population
        - SH4 The Human Mind and Its Complexity
        - SH5 Cultures and Cultural Production
        - SH6 The Study of the Human Past
- MSFD Descriptor
    - D1 Biodiversity
    - D2 Non-indigenous species

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- D3 Populations of commercially exploited fish and shellfish
- D4 Pelagic food webs
- D5 Eutrophication
- D6 Sea floor integrity
- D7 Hydrographic conditions
- D8 Contaminants
- D9 Contaminants in food
- D10 Marine litter
- D11 Underwater noise

VALUE CHAIN POSITION

- Value Chain Position
  - Inputs and raw materials
  - VCI1 - Inputs and raw materials - General
  - VCI2 - Inputs and raw materials - Special
  - Components manufacturing
    - VCC1 - Components manufacturing - SW Components
    - VCC2 - Components manufacturing - HW Components
    - VCC3 - Components manufacturing - ROV/AUV Components & Tooling
  - Production
    - VCP1 - Production - ROV/AUV/Sensor Manufacturing
    - VCP2 - Production - Auxiliary and sub-system products
    - VCP3 - Production - Integrated systems manufacturing
    - VCP4 - Production - Peripheral services and logistics
  - Distribution
    - VCD1 - Distribution - Marketing & Distribution
    - VCD2 - Distribution - After Sales Customer Support & Technical Training
  - Sales
    - VCS1 - Sales - ROV/AUV operators & Survey Firms
  - Support bodies
    - VCB1 - Support bodies - Education & Research
    - VCB2 - Support bodies - Government
    - VCB3 - Support bodies - BSO, Clusters, Associations
    - VCB4 - Support bodies - Financial Networks
  - Customers or Buyers
    - VCC1 - Customers or Buyers - Scientific Research
    - VCC2 - Customers or Buyers - Defence/Port Security
    - VCC3 - Customers or Buyers - Offshore Energy & Installations

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- VCC4 - Customers or Buyers - Fisheries and Aquaculture
- VCC5 - Customers or Buyers - Maritime Governance
- VCC6 - Customers or Buyers - Marine Environment and Depollution

CATEGORY 2. - KEY PROJECTS

BY TYPE

- Research
- Society

BY STATUS

- Ongoing
- Finished

BY COUNTRY OF THE LEAD PARTNER

- Country

BY FUNDING PROGRAM

- EU funds
  - HORIZON 2020
  - Interreg
  - ERDF (European Regional Development Fund)
  - EMFF (European Maritime and Fisheries Fund)
  - LIFE (Environmental and climate action)
  - IPA II (Instrument for pre-accession assistance)
  - FP7 (Seventh Framework Programme)
- National/Regional
  - Regional project
  - National Defence
  - HAMAG/BICRO
  - The Environmental Protection and Energy Efficiency Fund (EPEEF)
  - Croatian Bank for Reconstruction and Development (HBOR)
  - ISPRA (Italian National Institute for Environmental Protection and Research)
  - MIUR (Ministry of Education, Universities and Research-Italy)
  - POR (Programmi Operativi Regionali)
- Other
  - Private Equity
  - Investment fund
  - Hedge fund
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- Angel Investors
- ESA (European Space Agency)

AFFILIATION

- Blue Economy
  - Established sectors
    - Living resources
      - LR1 Harvesting sector
      - LR2 Aquaculture
      - LR3 Processing and preserving of fish, crustaceans and molluscs
      - LR4 Retail sale of fish, crustaceans and molluscs in specialised stores
      - LR5 Wholesale of other food, including fish, crustaceans and molluscs
    - Offshore oil and gas
      - OG1 Extraction of crude petroleum
      - OG2 Extraction of natural gas
      - OG3 Support activities for petroleum and natural gas extraction
    - Port activities
      - PA1 Cargo handling
      - PA2 Warehousing and storage
      - PA3 Construction of water projects
      - PA4 Service activities incidental to water transportation
    - Shipbuilding and repair
      - SR1 Building of ships and floating structures
      - SR2 Building of pleasure and sporting boats
      - SR3 Repair and maintenance of ships and boats
    - Maritime transport
      - MT1 Sea and coastal passenger water transport
      - MT2 Sea and coastal freight water transport
      - MT3 Inland passenger water transport
      - MT4 Inland freight water transport
      - MT5 Renting and leasing of water transport equipment
    - Coastal tourism
      - CT1 Hotels and similar accommodation
      - CT2 Holiday and other short-stay accommodation
      - CT3 Camping grounds, recreational vehicle parks and trailer parks
      - CT4 Other accommodation

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        - CT5 Transport
        - CT6 Other expenditure
    - Emerging sectors
        - ES1 Renewable Energy
        - ES2 Deep-seabed mining
        - ES3 Desalination
        - ES4 Defence and Security
        - ES5 Biotechnology
        - ES6 Environmental protection
        - ES7 Ecosystem services
        - ES8 Natural capital
        - ES9 Multiuse platforms
        - ES0 Research and education
- Scientific Domain
    - Physical Sciences and Engineering
        - PE1 Mathematics
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    - Social Sciences and Humanities
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        - SH3 The Social World, Diversity, Population
        - SH4 The Human Mind and Its Complexity
        - SH5 Cultures and Cultural Production
        - SH6 The Study of the Human Past
- MSFD Descriptor
    - D1 Biodiversity
    - D2 Non-indigenous species
    - D3 Populations of commercially exploited fish and shellfish
    - D4 Pelagic food webs
    - D5 Eutrophication
    - D6 Sea floor integrity
    - D7 Hydrographic conditions
    - D8 Contaminants
    - D9 Contaminants in food
    - D10 Marine litter
    - D11 Underwater noise

CATEGORY 3. - KEY INDIVIDUALS (KID)

AFFILIATION TO THE ORGANISATION

- Scientific Research
- Private Sector
- Public Sector

COUNTRY

- Country name

SCIENTIFIC DOMAIN

- Scientific Domain
    - Physical Sciences and Engineering
        - PE1 Mathematics
        - PE2 Fundamental Constituents of Matter
        - PE3 Condensed Matter Physics
        - PE4 Physical and Analytical Chemical Sciences
        - PE5 Synthetic Chemistry and Materials
        - PE6 Computer Science and Informatics

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- PE7 Systems and Communication Engineering
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  - SH6 The Study of the Human Past

CATEGORY 4. - KEY PLATFORMS

LINKED ORGANISATION

- Scientific Research
- Private Sector
- Public Sector

PLATFORM TYPE

- Crowdsourcing
- Crowdfunding
- Open Innovation
- Community

AFFILIATION

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      - LR4 Retail sale of fish, crustaceans and molluscs in specialised stores
      - LR5 Wholesale of other food, including fish, crustaceans and molluscs
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      - OG2 Extraction of natural gas
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      - CT5 Transport
      - CT6 Other expenditure
  - Emerging sectors

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        - ES1 Renewable Energy
        - ES2 Deep-seabed mining
        - ES3 Desalination
        - ES4 Defence and Security
        - ES5 Biotechnology
        - ES6 Environmental protection
        - ES7 Ecosystem services
        - ES8 Natural capital
        - ES9 Multiuse platforms
        - ES0 Research and education
- Scientific Domain
    - Physical Sciences and Engineering
        - PE1 Mathematics
        - PE2 Fundamental Constituents of Matter
        - PE3 Condensed Matter Physics
        - PE4 Physical and Analytical Chemical Sciences
        - PE5 Synthetic Chemistry and Materials
        - PE6 Computer Science and Informatics
        - PE7 Systems and Communication Engineering
        - PE8 Products and Processes Engineering
        - PE9 Universe Sciences
        - PE10 Earth System Science
    - Life Sciences
        - LS1 Molecular Biology, Biochemistry, Structural Biology and Molecular Biophysics
        - LS2 Genetics, 'Omics', Bioinformatics and Systems Biology
        - LS3 Cellular and Developmental Biology
        - LS4 Physiology, Pathophysiology and Endocrinology
        - LS5 Neuroscience and Neural Disorders
        - LS6 Immunity and Infection
        - LS7 Applied Medical Technologies, Diagnostics, Therapies and Public Health
        - LS8 Ecology, Evolution and Environmental Biology
        - LS9 Applied Life Sciences, Biotechnology, and Molecular and Biosystems Engineering
    - Social Sciences and Humanities
        - SH1 Individuals, Markets and Organisations
        - SH2 Institutions, Values, Environment and Space

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    - SH3 The Social World, Diversity, Population
    - SH4 The Human Mind and Its Complexity
    - SH5 Cultures and Cultural Production
    - SH6 The Study of the Human Past
- MSFD Descriptor (drop down menu)
    - D1 Biodiversity
    - D2 Non-indigenous species
    - D3 Populations of commercially exploited fish and shellfish
    - D4 Pelagic food webs
    - D5 Eutrophication
    - D6 Sea floor integrity
    - D7 Hydrographic conditions
    - D8 Contaminants
    - D9 Contaminants in food
    - D10 Marine litter
    - D11 Underwater noise

CATEGORY 5. - KEY RESOURCES

RESOURCE TYPE

- Technology
- Infrastructure
- Know-how
- Equipment
- IPR
- Network

LINKED ORGANISATION

- Scientific Research
- Private Sector

Below is a series of fields in Relationships/entries for Private Sector added as an example. All those fields will be also available for Public Sector (same page) or Scientific Research Organization (previous page). Namely, expertise, project proposal, equipment, services, what he is interested in, funding opportunities, project partnership, solution provider. These will be available also for the other sectors as scientific research organizations/Public sector that are also interested in funding opportunities and can provide equipment, services, etc.

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Knowledge graph elements

Overview table (common entries)

ATTRIBUTES	ENTITIES	RELATIONSHIPS
Organisation type	Scientific Research	Belongs_to (parent organisation)
Location (city)	Private Sector	Participates_in (project)
Country	Public Sector	Partnership_with (Project's Lead partner/Business partner)
Contact person	Key projects	
Blue economy sector	Key individuals	
Scientific Domain	Key platforms	
MSFD Descriptor	Key resources	
Value Chain position		
Project type		
Project status		
Funding program		
Lead partner		
Organisation connection		
Specialization		
Platform type		
Resource type		

Entity: Scientific Research Organisation (SCR)

ATTRIBUTES	RELATIONSHIPS
Organisation Type	Belongs_to (parent organisation)
Location (city)	Participates_in (project)
Country	Partnership_with (Project's Lead partner/Business partner)
Contact person	
Blue economy sector	
Scientific Domain	
MSFD Descriptor	
Value Chain position	

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Entity: Private Sector (PRS)

ATTRIBUTES	RELATIONSHIPS/entries
Name of company	Participates_in (project)
Location (city)	Partnership_with (Project's Lead partner/Business partner)
Country	Expertise
Contact person (phone number, email, website)	Project proposal
Blue economy sector	Equipment
Scientific Domain (optional)	Services
MSFD Descriptor (optional)	**What he is interested in**
Value Chain position	Funding opportunities
NACE code	Project partnerships
Size	Solution provider
Short company description (optional)	

Entity: Public Sector (PBS)

ATTRIBUTES	RELATIONSHIPS
Organisation Type	Participates_in (project)
Location (city)	Partnership_with (Project's Lead partner/Business partner)
Country	
Contact person	
Blue economy sector	
MSFD Descriptor	
Value Chain position	
NACE code	

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Entity: Key projects (PRJ)

ATTRIBUTES	RELATIONSHIPS
Project Type	Belongs_to (organization)
Project status	Partnership_with (Contract/Agreement)
Funding program	
Blue economy sector	
Scientific Domain	
MSFD Descriptor	
Organisation connection	
Lead partner	

Entity: Key individuals (KID)

ATTRIBUTES	RELATIONSHIPS
Organisation connection	Belongs_to (organization)
Specialization	Participates_in (project)
Scientific Domain	Partnership_with (contract)

Entity: Key platforms (PLT)

ATTRIBUTES	RELATIONSHIPS
Organisation connection	Belongs_to (organization)
Platform type	
Blue economy sector	
Scientific Domain	
MSFD Descriptor	

Entity: Key resources

ATTRIBUTES	RELATIONSHIPS
Resource type	Belongs_to (organization)

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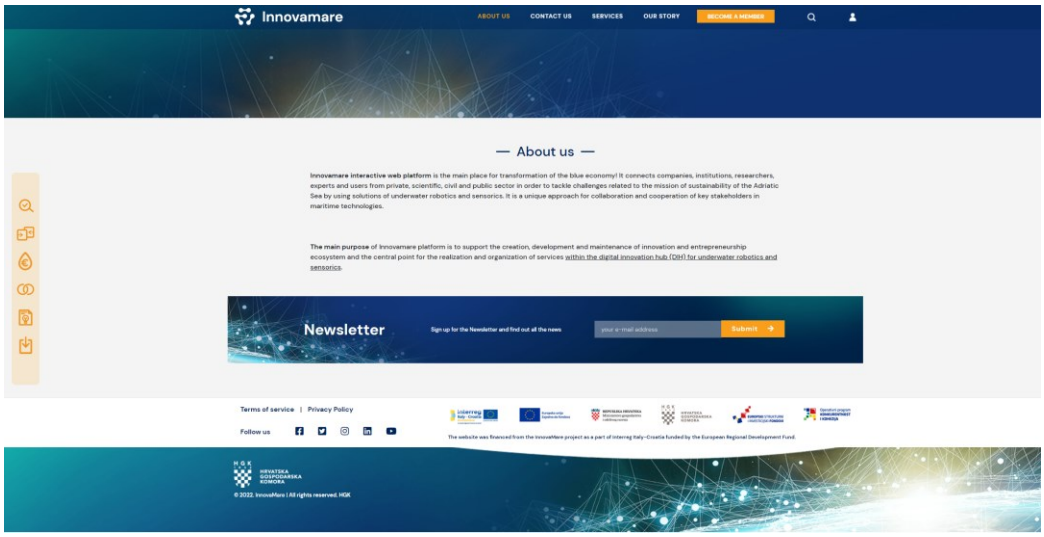
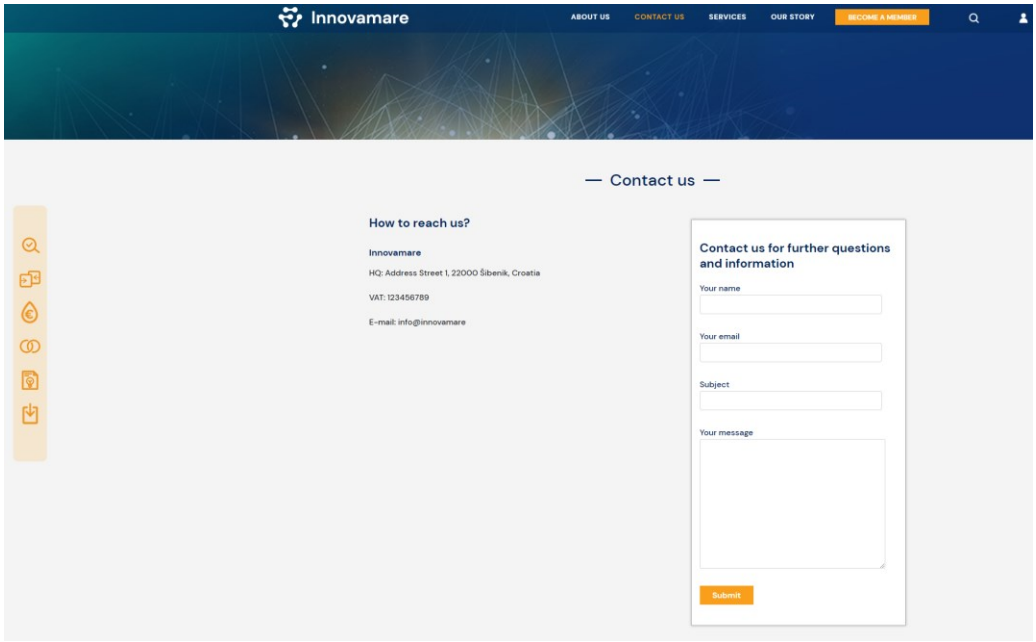
Graphic overview of the platform





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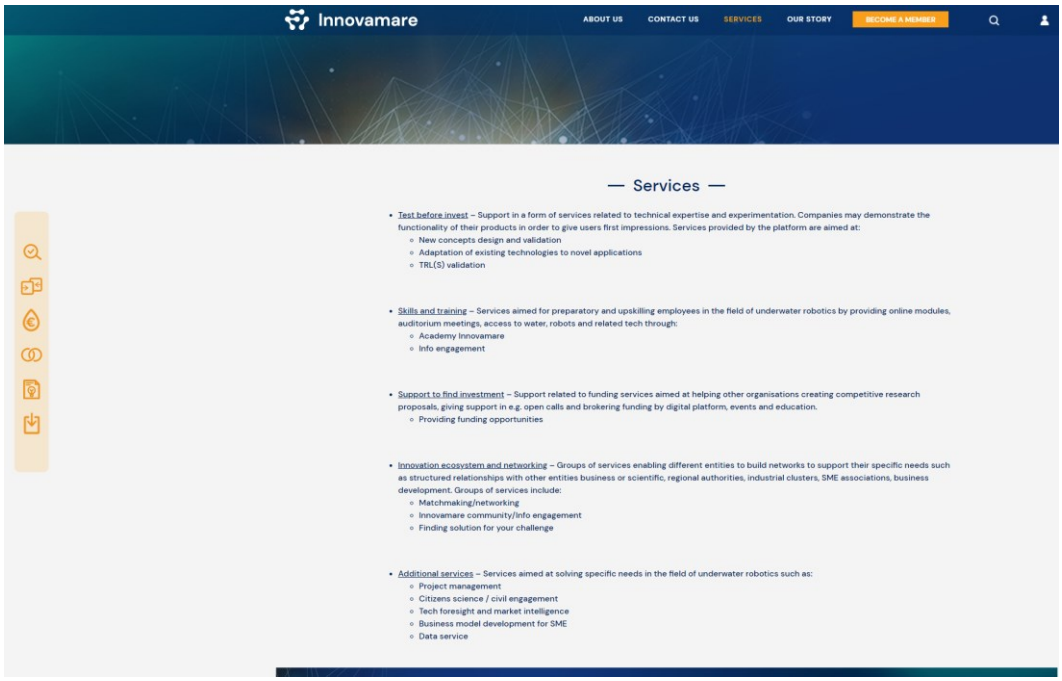

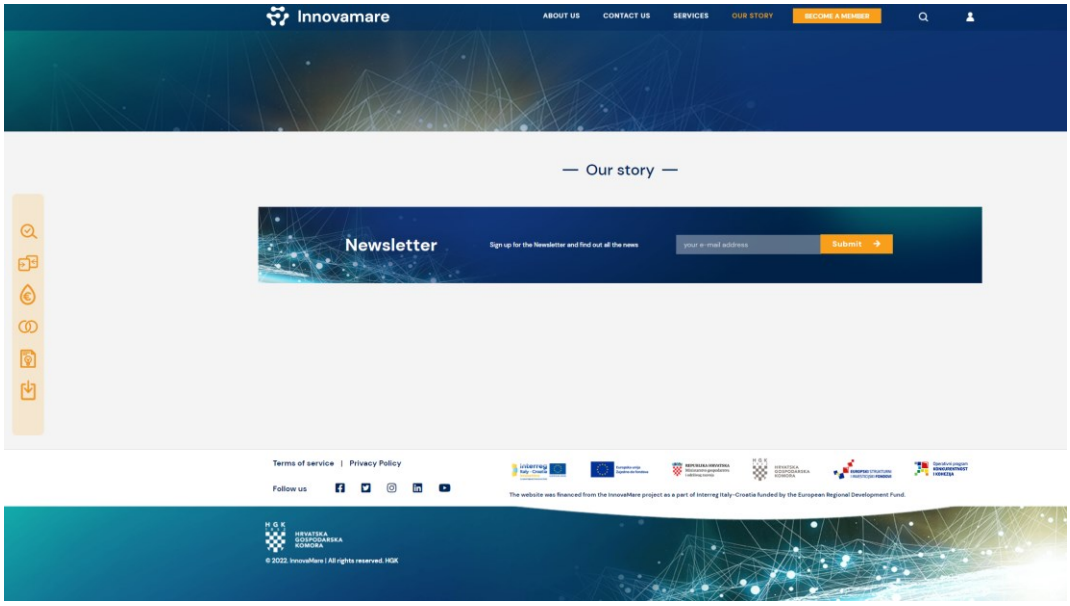

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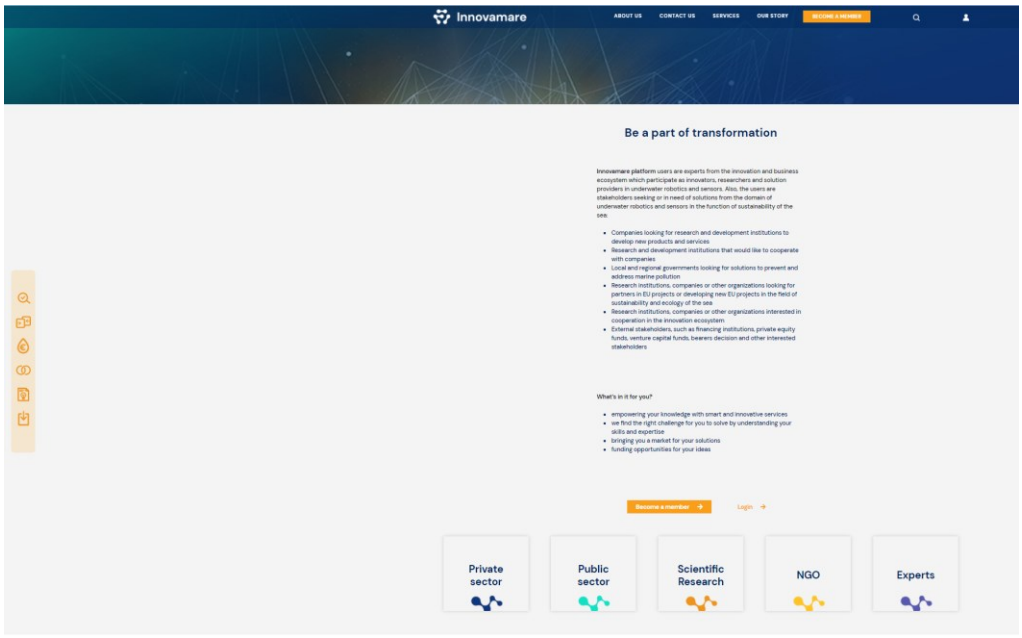

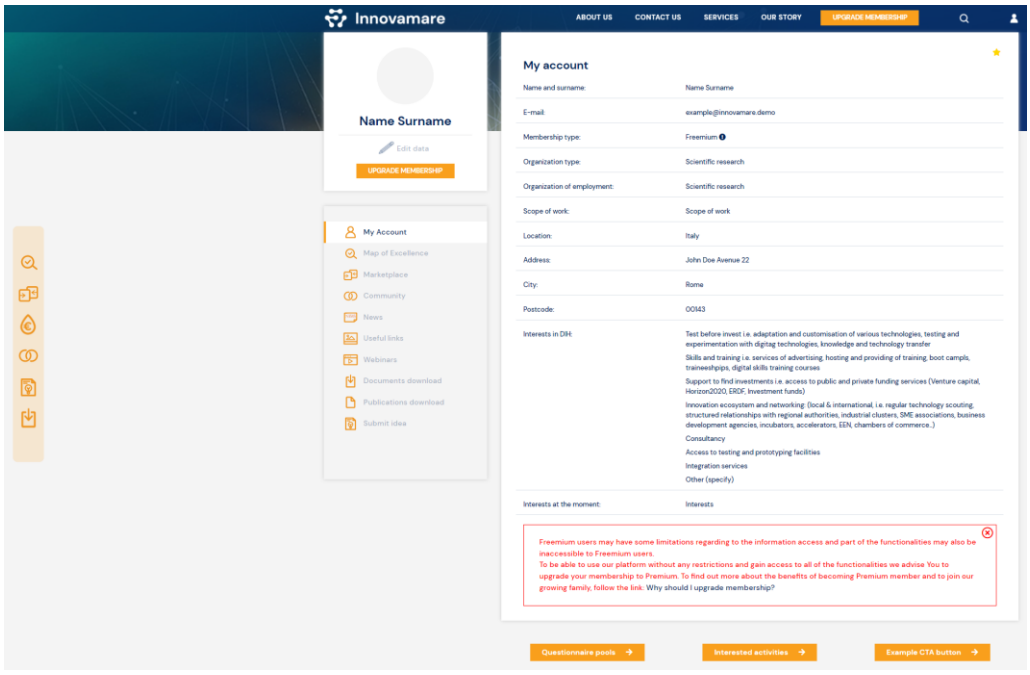

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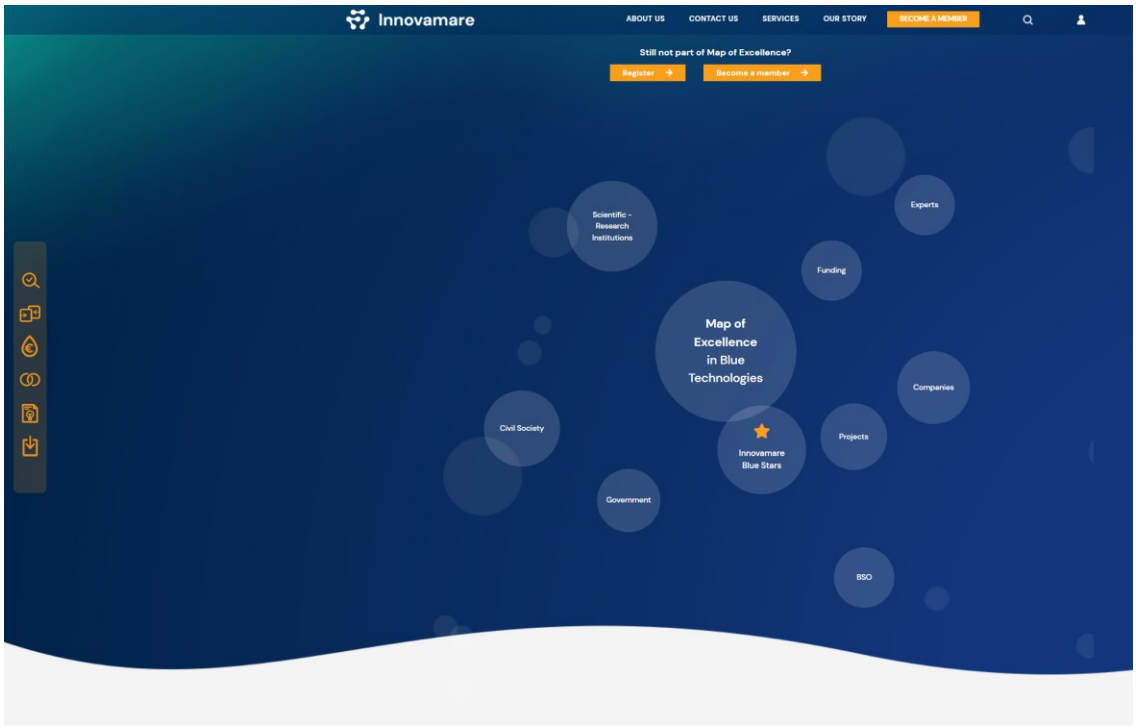

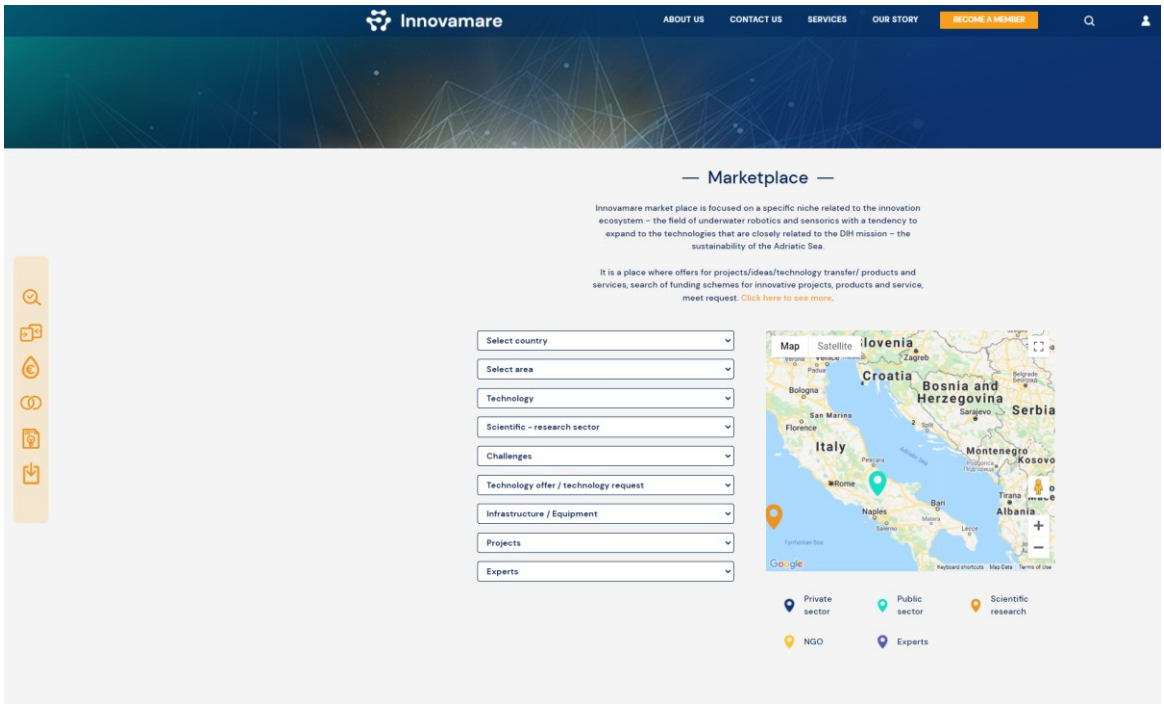

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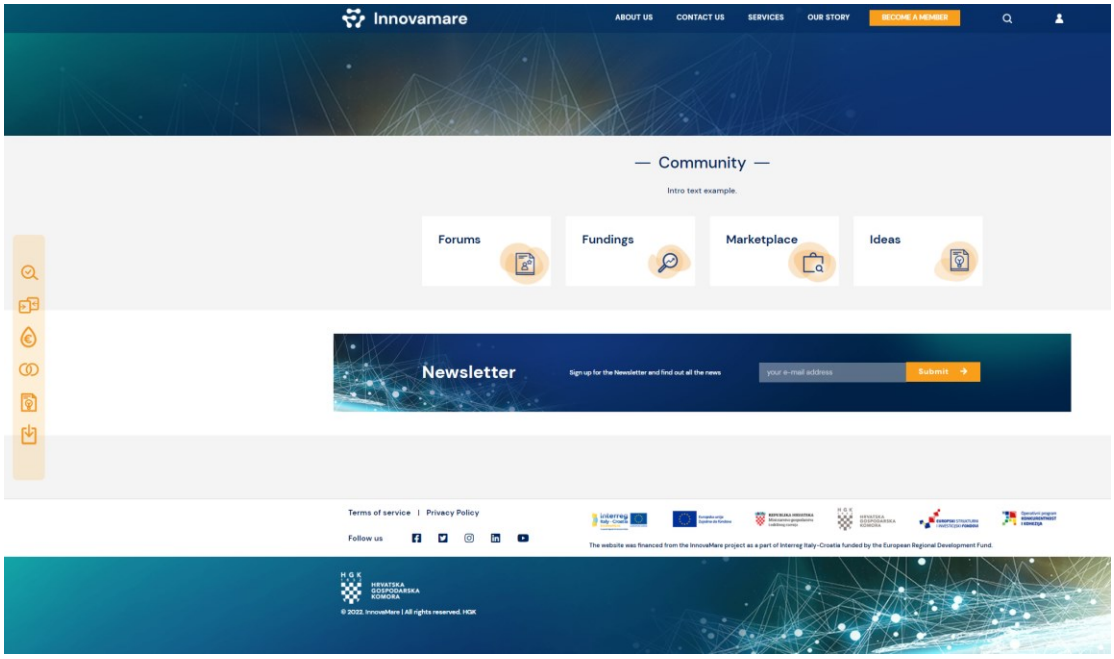

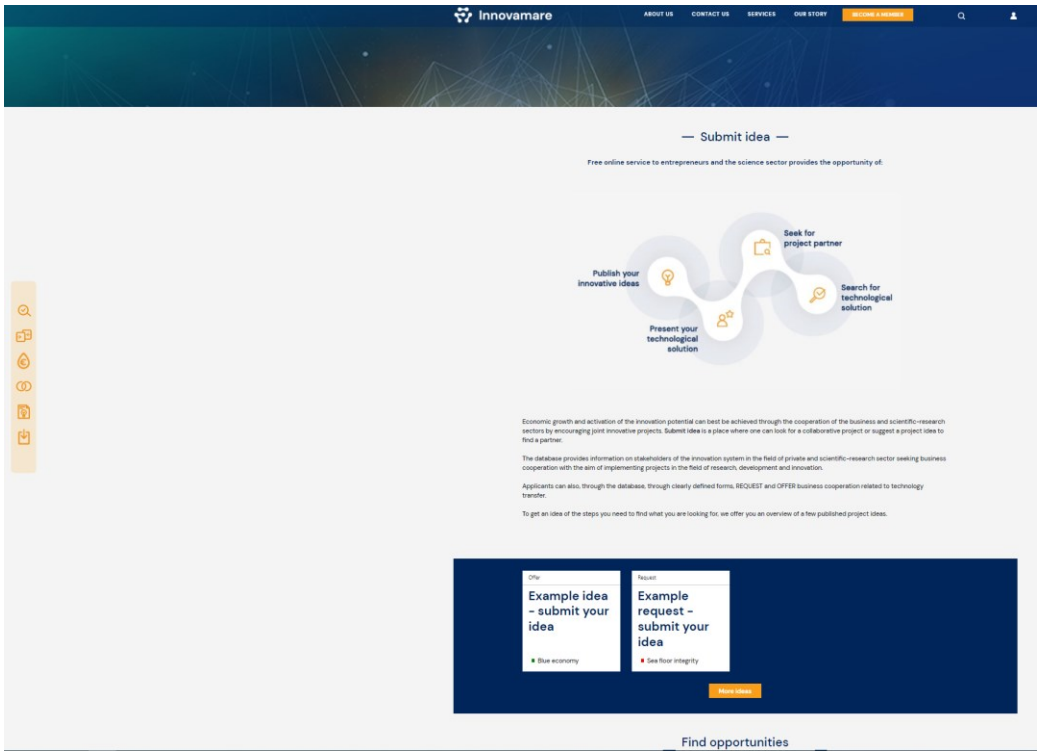

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Conclusion

Within the Interreg Italy-Croatia project InnovaMare, one of the main activities and output is interactive web platform, devoted to connect companies, institutions, researches, experts and users from private, scientific, civil and public sector, representing innovation ecosystem and emphasizing its role in solving challenges and keeping sustainability of the Adriatic Sea by using underwater robotics and sensors.

The goal of Innovamare platform is to expand and to empower user's knowledge with smart and innovative services, to provide a market for their solutions as well as to find opportunities and partners for promising ideas.

The interactive web platform main functionalities are the map of excellence gathering blue economy innovation key players, the community collecting profiles of experts, companies, projects, on the base of interest, transfer of information and knowledge and the market place backed by digital brokerage that brings together projects, solutions and expertise. The services portfolio is completed by the ones of the Digital Innovation Hub, gathering experts for providing solutions to the user's challenges, funding opportunities area, for applying solutions for funding's and counseling to stakeholders regarding rulebook, laws, strategies.

Innovamare platform addresses to scientists, scientific institutions, companies, local and regional governments, innovators, public institutions, business supporting institutions, with the aim of supporting the creation, development and maintenance of innovation and entrepreneurship ecosystem and the central point for the realization and organization of future services within the digital innovation hub (DIH) for underwater robotics and sensorics as part of the InnovaMare project.

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