

INNOVAMARE PROJECT

Blue technology - Developing innovative technologies for sustainability of Adriatic Sea

WP2 – Communication activities

D.2.4.4

JOINT ROADSHOW REPORT – A REPORT OF THE FOUR EVENTS HELD

Partner responsible: University of Rijeka, Department of Biotechnology
(PP11)

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InnovaMare

Blue technology -
Developing innovative technologies
for sustainability of Adriatic Sea



***DIVE INTO THE DEPTH
OF OPPORTUNITIES***

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Introduction - objectives of the Roadshows

Roadshows of established innovation ecosystem in maritime robotics and sensors were envisaged as a gathering of stakeholders and presentation of developed innovation ecosystem, services, networking and innovation capacities building, with a goal of transforming blue economy for sustainable Adriatic Sea. Roadshows were organized as follows:

- Dubrovnik, Croatia: organized by University of Dubrovnik – April 2022.
- Venezia, Italy: organized by Union Camere del Veneto – June 2022.
- Rijeka, Croatia: organized by University of Rijeka – October 2022.
- Bari, Italy: organized by ARTI – Apulia region agency for technology and innovation – March 2022.

The idea of Roadshows was to present Innovamare innovation ecosystem and to involve different relevant actors in the innovation ecosystem, primarily from Italy and Croatia, with broader reach to other countries on Adriatic such as Slovenia, Albania, Montenegro, BIH or Greece. It is an opportunity for networking through personal dialogue, transferring knowledge as well as opportunity to jointly develop new project concepts and establish partnership consortiums for future calls in blue economy sectors and technologies.

Target groups:

1. Private sector - focus on blue economy sectors
2. Public sector - focus on public companies, harbours, national parks etc.
3. Public sector - focus on public institutions as regional development agencies, incubators, business supporting institutions
4. Public sector - local and regional government
5. Scientific research institutions - universities, institutes, scientific parks, innovation centers
6. NGOs - focus on blue economy
7. Experts

Report of the Roadshow #1 - Dubrovnik

The first Roadshow of established INNOVAMARE innovation ecosystem in blue technologies and development of new project concepts in blue economy was held from 27 to 29 April 2022 in Dubrovnik (Croatia). This event was a part of the InnovaMare strategic project activities to promote cross-border cooperation between Italy and Croatia and implement the Blue Economy by increasing the transfer of knowledge among partners and stakeholders.



The roadshow was organized by the Croatian Chamber of Economy as leader partner of the project together with project partner, the University of Dubrovnik, and it was the first of such planned activities. The Roadshow presented the results of the project, the developed

Innovamare innovation ecosystem, representing the Digital Innovation Hub Innovamare and the Innovamare innovation platform, which unites all stakeholders and opens space for further development of cross-border cooperation in the field of blue growth. It has brought out the results of almost two years of activities aimed at building a shared stakeholder's ecosystem of innovation through a multidisciplinary approach to foster Adriatic sustainability. During three active days, the event in Dubrovnik included a series of workshops and practical demonstrations of new industrial applications against marine pollution based on robotic and sensorics solutions.



Workshops and presentations of the scientific research sector in the field of marine technologies for the private and public sectors were held, as well as presentations of future trends and forecasts of development in this area with the possibility of financing new project ideas. The emphasis was on the opportunity for networking through dialogue, knowledge transfer and joint development of new project concepts and the establishment of partner consortium for future calls.

The presentations were held by project partner Nikola Mišković from University of Zagreb, Faculty of Electrical Engineering and Computing, Geospatial technologies in blue economy held by Fran Domazetović from Geospatial Analysis Laboratory, Department of Geography, University of Zadar, project partner Neven Cukrov from Ruđer Bošković institute on

use of underwater sensors and robotics in marine research and the last one by the host Ivana Palunko from the University of Dubrovnik.

During the project concept workshops, participants were divided in different areas of blue economy based on Innovamare mapping. In each of the thematic workshops there was one EU funding expert and one from scientific research institution that lead the process of development of project concepts. The project concept workshops were held as follows:

1. Environmental protection/Coastal tourism (topic moderators: HGK – Željka Rajković, UNIDU – Ivana Palunko), 14 participants

The group consisted of the representatives from university, regional development agency, business supporting organisation, NGO, company, scientific institution. In this group, representatives have detected the problem of monitoring of marine litter and started developing project concept on developing new solutions for monitoring of aquatic ecosystem.

2. Research and education (topic moderators: HGK – Mateo Ivanac, FER – Nikola Mišković) - 21 participants

3. Marine transport/Shipbuilding and repair (topic moderators: MARE FVG – Martina Rossi, UNIZD, TRIESTE, UNIZG FSB) - 7 participants

The group consisted of the representatives from cluster, university, regional development agency, innovation agency. This group of representatives from different sector were discussing and developing project concept on model of circular approach to waste management in ports.

4. Blue bioeconomy&biotechnology (topic moderators: Platforma 22 – Ivana Bujas Rupičić, ISMAR – Francesca De Pascalis) - 9 participants

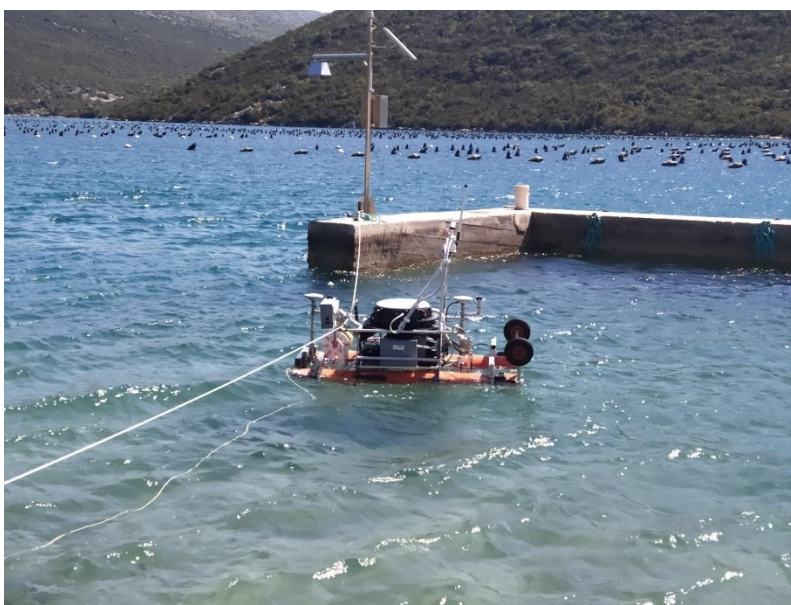
The group consisted of the representatives from business supporting organisation, companies and development agencies. This group had representatives from a company that is in production and processing of high-quality Mediterranean fish and the sixth biggest company in the world in farming of sea bass and seabream. They presented their problem and the group was focused on developing specific solution for this problem. The problem is the development of mussels on the infrastructure and the problem of cleaning, and the costs required for this. It is necessary to protect them so that mussels do not grow on the infrastructure.



The stakeholders present at the event were representatives from clusters, universities, regional development agency, innovation agency, business supporting organisation, NGO, companies, and scientific institutions.

In the 3-day roadshow, the first InnovaMare innovation interactive platform has been launched, a shared web space among key players where private sector, public institutions, research centers and experts from different countries will keep in touch for further cooperation, development and promotion of innovations in marine technologies. Also, the most ambitious result of InnovaMare project, has been presented: it is the Digital Innovation Hub (DIH), a digital place for networking, exchanging knowledge and connecting supply and demand for highly innovative underwater anti-pollution technologies with a wide range of services.

On the last day a "BLUE EVENT 2" was organized in Bistrina (a bay close to Dubrovnik), with presentation and demonstration of new models/solutions for the application of marine technologies together with project MARLESS & SeaClear. It was presentation of a system of unmanned underwater and surface vessels for finding and collecting waste from the seabed, a robot that identifies, collects and sorts waste from the sea surface, an autonomous vehicle that can map congested water areas and a buoy with sensors.



Activities in Dubrovnik represented an important opportunity for networking, developing joint innovative projects and building new consortiums to apply for future calls in the Blue economy. The roadshows continued with further appointments in Venice (June 2022), Rijeka (October 2022) and Bari (March 2023).

ANNEXES:

- a. Letter of invitation
- b. Agendas
- c. Attendance lists

Dear Sirs,

we invite you to join us at the First Roadshow in Dubrovnik, which will be held as part of the strategic project InnovaMare, from 27 to 29 April 2022.

The InnovaMare strategic project (<https://www.italy-croatia.eu/web/innovamare>) is designed to develop and establish a model of innovation ecosystem in the field of underwater robotics and sensors for the control and monitoring of pollution in the Adriatic Sea. The project is co-financed by the EU Regional Development Fund under the Italy-Croatia Cross-border Cooperation Program 2014-2020. One of the main challenges of the InnovaMare project is to increase the efficiency of innovation activities in relevant areas of the blue economy - increasing knowledge transfer within cooperation.

The Croatian Chamber of Economy and the University of Dubrovnik are the organizers of this event, which is also the first of such planned activities. The Roadshow will present the results of this project, the developed InnovaMare innovation ecosystem, representing the Digital Innovation Hub InnovaMare and the InnovaMare innovation platform, which unites all stakeholders and opens space for further development of cross-border cooperation in the field of blue growth.

During these three active days, workshops and presentations of the scientific research sector in the field of marine technologies for the private and public sectors will be held, as well as presentations of future trends and forecasts of development in this area with the possibility of financing new project ideas. The emphasis is on the opportunity for networking through dialogue, knowledge transfer and joint development of new project concepts and the establishment of partner consortium for future calls.

Please register for the event via following link <https://innovamare.org/news/dubrovnik-roadshow-27-29-04-2022/>. Participation is free.

The registration is open until April 10, 2022. The number of participants is limited to 100 people and the working language is English.

For all additional questions please contact the e-mail address innovamare@hgk.hr.

Thank you for your cooperation.

Mateo Ivanac,

InnovaMare Project Manager

2022 Innovamare Roadshow Agenda

Hosted by University of Dubrovnik

Location: STUDENT CENTRE DUBROVNIK, Marka Marojice 2b, Dubrovnik, Croatia

Date – 27. - 29. April 2022.

Transportation info

Transport is organized individually. Parking space for those who are arriving with car is available in accommodation site.

Accommodation info

University of Dubrovnik has organized for us roadshow facilities and accommodation in their new student dorm. The prices for accommodation will be on very friendly bases for participants

- <https://www.unidu.hr/student-dormitory-2/>.

If you choose accommodation in student dorm, direct contact for accommodation reservation is **095/576-9070** or e-mail: nikoleta.simunovic@sdu.hr

Participants info

Maximum number of participants is up to 100.


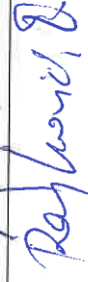




Process of registration will go through Innovamare web platform: [Application form - Dubrovnik Roadshow 2022](#)

Day 1 – 27.04.2022.	
10.00-10.30	Get together – registration
10.30-11.00	Welcome Remarks Dubrovnik-Neretva region, Ivo Klaić, Head of the Administrative Department for Entrepreneurship, Tourism and the Sea University of Dubrovnik, izv. prof.dr.sc. Nebojša Stojčić DUNEA- regional development agency, Bruno Bebić
11.00-11.20	Presentation of Innovamare project consortium, results and future steps Presenter: Mateo Ivanac, project manager, Croatian Chamber of Economy
11.20-12.00	Presentation of DIH Innovamare and its services to potential stakeholders Innovamare interactive web platform Presenter: Mateo Ivanac, project manager, Croatian Chamber of Economy
12.00-13.00	Networking break 1
13.00-14.00	Presentation by Scientific research sector of marine technologies and its applications in public and private sector – part 1 13:00 – 13:20 Faculty of Electrical Engineering and Computing (FER), prof. dr. sc. Nikola Mišković, "Technical solutions available from UNIZG-FER" 13:20 – 13:40 Ruđer Bošković Institute, dr. sc. Neven Cukrov "Use of underwater sensors and robotics in marine research" 13:40 – 14:00 University of Dubrovnik, (UNIDU), izv.prof.dr.sc. Ivana Palunko, "Heterogeneous robotic systems for monitoring and preservation of marine environment"
14.00-14.45	Networking break 2
14.45-15.30	Presentation by Scientific research sector of marine technologies and its applications in public and private sector – part 2 14:50 – 15:10 National Research Council Institute of Marine Sciences (CNR-ISMAR) Francesca De Pascalis Ph.D., "Multidisciplinary applications of robotic solutions in shallow coastal environments" 15:10 – 15:30 University of Zadar, Geospatial Analysis Laboratory, prof.dr.sc. Ante Šiljeg, "Geospatial technology in the blue economy"

Day 2 – 28.04.2022.	
10.00-10.30	<p>Presentation of future trends in marine technologies based on technology foresight Presenter: Domagoj Račić, Mreža znanja d.o.o.</p>
10.30-11.30	<p>In quest for demand? – discussion between science and private sector Presentation from Interreg ADRION project BLUEAIR - Primary Blue Growth focus areas & macro-regional cooperation on innovation policies Presenter: Christian Springer, Croatian Chamber of Economy Moderator of discussion: Mateo Ivanac</p>
11.30-12.00	Networking break 1
12.00-13.30	<p>Development of project concepts and partnership consortiums for EU funding – workshop – part 1* *In this workshops participants will be divided in 5 different areas of blue economy based on Innovamare mapping. In each of the thematic workshops we will have one EU funding expert and one from scientific research institution that will lead process of development of project concepts.</p>
13.30-14.30	Networking break 2
14.30-15.30	<p>Development of project concepts and partnership consortiums for EU funding – workshop – part 2</p>
15.30-16.00	<p>Presentation of the project proposal concepts Presenter: representative of each group</p>

<p>Day 3 – 29.04.2022. - „BLUE EVENT 2“- „PLAVO DOGAĐANJE 2“</p> <p>Projects: Innovamare, SeaClear & MARLESS Place: Mariculture Laboratory, University of Dubrovnik, Bistrina Bay</p>	
08:00-09:00	Bus transfer to Mariculture Laboratory, University of Dubrovnik, site Bistrina
09:00 – 10:00	Welcome coffee & refreshments
10:00-11:40	<p>Demonstration activities of marine technologies for participants of Roadshow and public</p> <p>10:00 – 11:00 University of Zagreb, Faculty of Electrical Engineering and Computing – Laboratory for Underwater Systems and Technologies (LABUST)</p> <p>11:00 – 11:40 University of Dubrovnik –Laboratory for Intelligent Autonomous Systems (LARIAT)</p>
11:10-11:40	<p>The role of DIHs in aquaculture innovation Presenter: Ivana Bujas Rupić, DIH AgriFood Hrvatska</p>
11:40-12:00	<p>Presentation of Community of practice about sea pollution DUNEA, Regional Development Agency Dubrovnik-Neretva County</p>
12:00-14:00	Networking break
14:00-15:00	Bus transfer to Dubrovnik

Attendance list – Roadshow, Dubrovnik
27.-29.04.2022.

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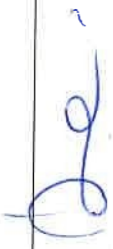




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DIH AgriFood Croatia	Ivana Bujas Rupić			
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Report of the Roadshow #2 – Venice and Padua

Unioncamere del Veneto organised the second Roadshow on 31.05.2022 and 1.06.2022 in Venice and Padua. On 31.05.2022 – session morning at NH Venezia Laguna Palace A WORLD CAFÉ has been organised in collaboration with **Fondazione Fenice Onlus** to encourage the discussion among InnovaMare partners for the development and implementation of new projects and ideas connected to sea pollution and environment protection.

Fondazione Fenice Onlus is very active in professional training and EU project management. With its great experience in these fields, it has been a great partner to work with in terms of methodology and results.



In order to implement a better knowledge among the partners and to successfully start a discussion on the proposed topics, the event has been divided in five different moments:

1. Welcome and introduction
2. Group creation (3 groups)
3. Pitching session
4. Ideas creation & dating
5. Wrap-up session

The event started with the welcome presentation of Mateo Ivanac (Croatian Chamber of Economy) and Francesca De Pascalis (ISMAR - CNR). They opened the event presenting the main areas of interest involved in the InnovaMare project, the state of the art and all results achieved so far.



The welcome session ended with a brief presentation held by Elena Bortolotti (Fondazione Fenice Onlus) to introduce the working group session and explain how it would have been carried out.

At the registration desk all participants have been asked to decide which working group they felt like being part of. In fact, three working groups had been created to discuss on specific topics which were the following:

TECHNOLOGICAL INNOVATION



ENVIRONMENTAL MONITORING



MARINE POLLUTION PREVENTION AND MICRO-PLASTICS



Participants set at different tables so that only group members were able to participate in the discussion. This was also meant to support the creation of a group canvas, which was supposed to be the outcome of the activity.

Each group had a moderator (from Fondazione Fenice), who should make sure the discussion was held properly and groups were all working at their project ideas so that they would have been able to fill in their canvas.

The working part started with a pitching session. Each participant was asked to present his/her competences and company/entity/institution in less than 3 minutes. This was meant to share attitudes, skills and business focuses to start an effective discussion on the proposed themes, and more in general to support participants knowledge-share techniques.



This session has gone through quite quickly, as most of the participants were focused and very well prepared for this activity. Nevertheless, the outcomes were very interesting. In fact, it turned out that the audience was composed by lots of different professional typologies and competences were very well mixed at each table.

Once completed the pitching session, participants were asked to start a brainstorming session to create and propose new project ideas connected to the proposed focus topics. In general, this is usually the most interesting but difficult part. Thanks to a short pitching session, the working groups had some more time to implement the discussion so that they were able to be more concrete in the ideas and solutions the presented afterwards during the wrap-up session.



Each group was asked to present the canvas they have been filling in with competences and ideas. The idea was that each canvas should present a set of competences, which should be used and merged to raise new project ideas, and this was exactly the way it worked.

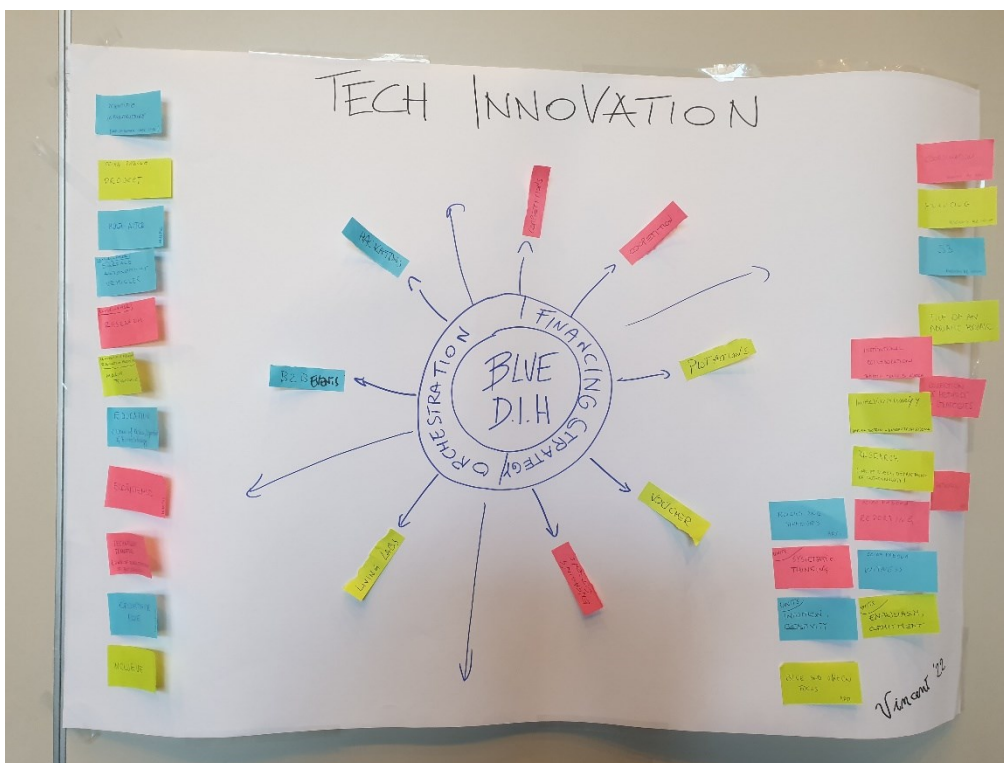


Following are the ideas presented during the wrap-up session:

TECHNOLOGICAL INNOVATION

Ironically the technology innovation group had no members effectively involved in the technological innovation. In fact, the group was composed mainly by managers and academic staff.

They implemented the idea of the “Blue DIH (Digital Innovation Hub)” starting from their competences to understand which kind of activities it should carry out and which kind of support they will require. The hub is meant to be a physical space where different activities connected by common topics and sources will take place. Therefore, they started thinking on a financial model based on revenues, which are supposed to come from the projects, which will enable the hub to be sustainable. They also want to foster the creation of new ideas promoting some competitions on various topics. Furthermore, they promote the creation of specific vouchers for companies to enforce their collaboration with entities such as universities. Moreover, they aimed at creating some events to involve the citizenship already at a school age, B2B events, hackathons and start-up/SMEs events.



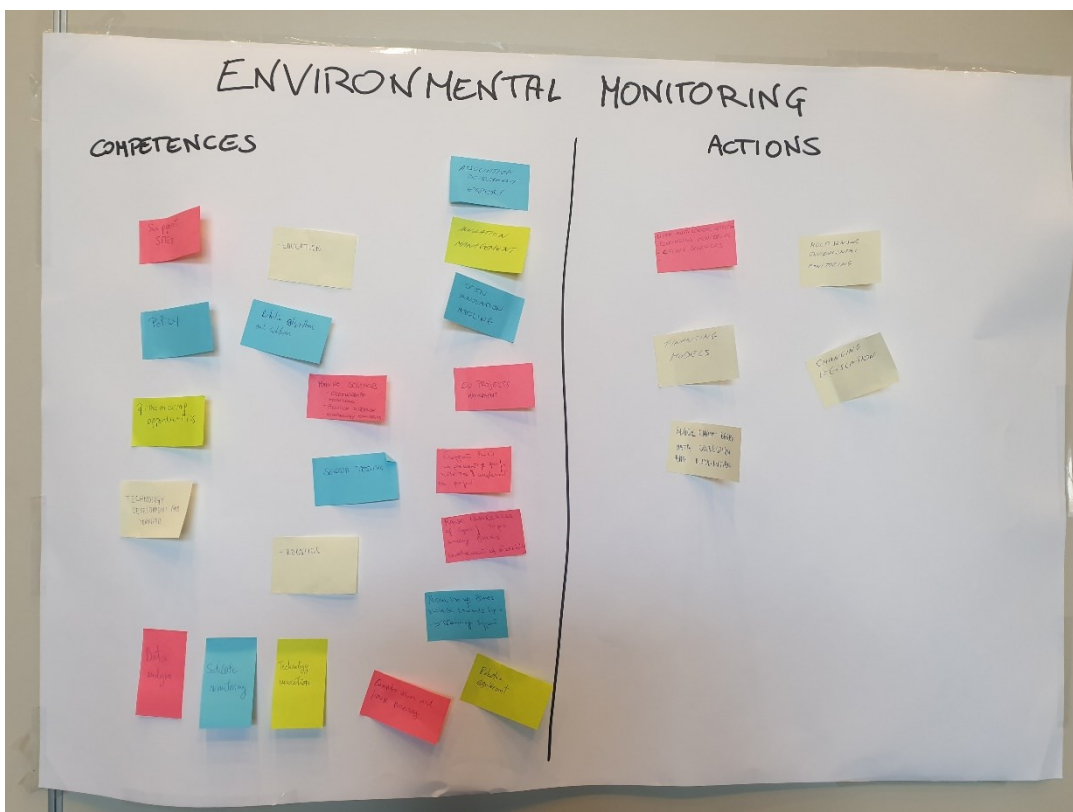
ENVIRONMENTAL MONITORING

The aim of their work was to involve science and SMIs in a project which should turn out to be an added value for social needs connected to the environment protection.

They focused on litter, one of the main issues connected to the environment, with a multi-sensor detection system which can be used also for other types of pollution. The idea is to combine satellite images and autonomous vehicles to support people like fishermen collecting litter from the sea. The project is meant to involve multiple implementations in different area such as technology, society and politics.

They also proposed a second project idea connected to data collection aiming at involving private actors who are usually living and/or monitoring a small area in a more organized data collection system to be able to receive accurate data in real time.

This group was a good mix of competence and backgrounds. Science, robotics, satellite data were among the competences represented by entities, universities, and private companies.

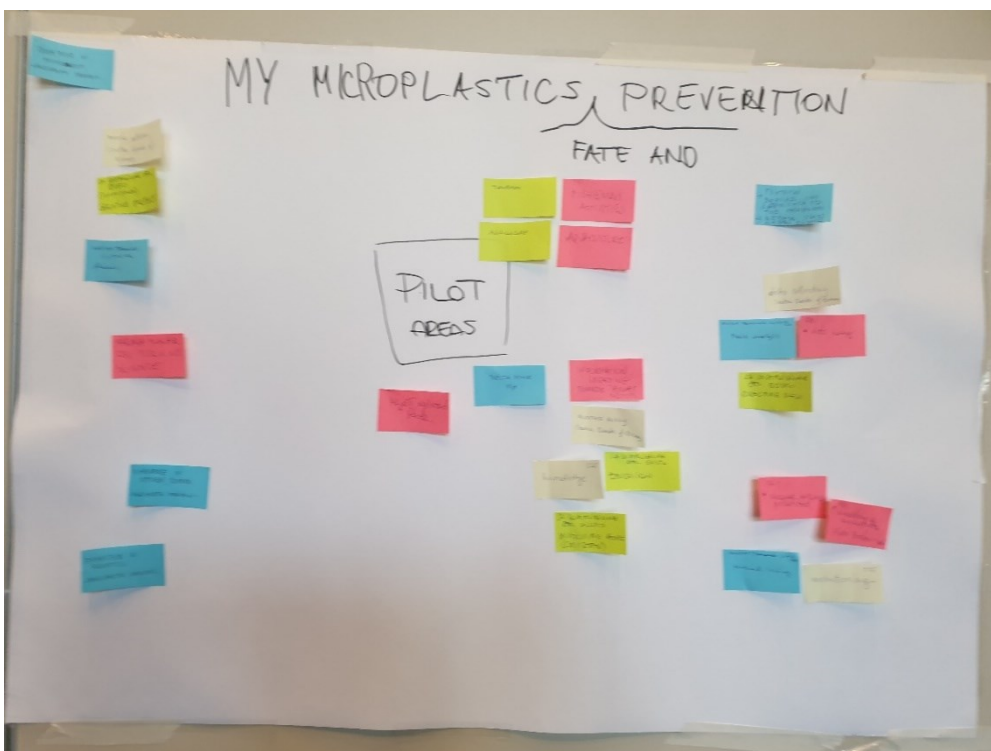


MARINE POLLUTION PREVENTION AND MICRO-PLASTIC

This group presented a project called “My micro-plastic fate and prevention”, where they proposed to merge scientific, educational, and social competences to enlarge the citizens’ knowledge on marine pollution. In fact, they proposed to work first on a scientific level to identify the main pollution areas and reasons. Then the project should include an education period in some pilot areas, which will be identified following some criteria such as place, number of inhabitants, marine pollution grade, type of pollution, touristic/non touristic area...

In this project they were able to merge a lot of different competences such as science, technology, education and management to pursue not only a scientific but also a social objective.

Being such a heterogeneous group in terms of participants (science people, managers, company owners and social/education professionals) has been a great challenge for all of them in terms of finding some good communication channels and in merging their interests and competences in one single project.



This activity has been successfully carried out and the expected outcomes have been fulfilled. A good set of competences on the tables, the right methodology to rise ideas and make them concrete and, finally, the attitude of the participants has made this result.

The project ideas proposed from the different groups are quite heterogeneous but very well aligned with the focused topics. They all cover not only the scientific/technological area, but also a few others less connected but needed to reach important results and be affective in the resolution of the issues connected to marine pollution and environment monitoring.

31.05.2022 – afternoon session

The partners of InnovaMare took part at the event “Industry 4.0 and Innovation for the Blue Economy”, to share the experience of the Interreg Projects FUTURE 4.0 and INNOVAMARE, dealing with Industry 4.0 and Innovation for the Blue Economy, at the Venice Boat Show – Arsenale in Venice. The event has been organised by Veneto Region. The event represented a good opportunity for the LP and Maritime Technology Cluster FVG to be speakers:

- The Lead Partner illustrated: the innovation ecosystem for blue technologies – InnovaMare: the cross-border centre of excellence for blue technologies DIH InnovaMare is conceived as a central place of the cross-border innovation ecosystem that aims to enable the transformation of the blue economy sector through the development of innovative solutions using blue technologies. The InnovaMare innovation ecosystem is based on two key principles:
 - DEMAND DRIVEN:** detecting the needs and problems of the blue economy sector and developing innovative solutions to solve them through the cooperation of scientific research and the private sector,
 - MISSION ORIENTED:** sustainability of the Adriatic Sea as a key resource for the blue economy sectors



- Maritime Technology Cluster FVG illustrated: The Blue Economy potential for local growth. New mindsets



SUSTAINABLE BLUE ECONOMY.

✓ **Only if it's NOW.**

Technology

Is progress. A lot has been done and now technological advancements proceed at full speed.

We have to run faster in the deployment of technological solutions.

In any case technology alone, is not enough.



On 1st June 2022 a study visit in Padua has been organised as follows:

- Wireless and More – Department of Information Engineering, University of Padova. Wireless and More, a spin-off company of the University of Padova. Mr Francescon presented its projects that tackle the various challenges posed by wireless communications in underwater acoustic.



Scientific research at SIGNET

The **SIGNET Lab** includes many areas of research. The most currently active being



**5G/6G
millimeter waves**



**Underwater
communications**



Human sensing



Internet of Things

- Environmental Engineering Department, University of Padova - Presentation of Circular and Sustainable Waste Management projects of the University of Padua: the partners visited the laboratories of the Environmental Engineering Department.

ANNEXES:

- d. Letter of invitation
- e. Agendas
- f. Attendance lists

Dear Sirs,

we invite you to participate in the second Roadshow of the Innovamare project, which will be held in Venice from 31st May to 1st June 2022.

The InnovaMare strategic project is designed to develop and establish a model of innovation ecosystem in the field of underwater robotics and sensors for the control and monitoring of pollution in the Adriatic Sea. The project is co-financed by the EU Regional Development Fund under the Italy-Croatia Cross-border Cooperation Program 2014-2020. One of the main challenges of the InnovaMare project is to increase the efficiency of innovation activities in relevant areas of the blue economy - increasing knowledge transfer within cooperation.

The Roadshow, organized by Unioncamere del Veneto and Cnr Ismar, follows the first one, held in Dubrovnik from 27th to 29th April and will address the environmental sustainability issue and how technological innovation can bring new solutions to combat marine pollution and provide environmental monitoring in the Adriatic sea.

On the morning of 31 May, at the NH Venezia Laguna Palace in Venice - Mestre, participants will be able to listen to a number of expert presentations and take part in a world café that will offer networking and planning activities for future calls focusing on the circular economy, waste and microplastics management and innovation in tourism/marine environment. In the afternoon there will also be the opportunity to meet the Interreg Adrion Future 4.0 project, dealing with Industry 4.0 and Innovation for the Blue Economy, at the Venice Boat Show (tickets for the Venice Boat Show will be provided free of charge to participants by the LP of the FUTURE 4.0 project - Veneto Region).

On 1st June, there will be a study visit to two different realities linked to the University of Padua to learn more about their projects on circular and sustainable waste management and underwater wireless communication.

Please find the programme attached.

Please register for the event via following link: <https://innovamare.org/news/2nd-innovamare-roadshow-venice-31-5-01-06-2022/> Participation is free.

The registration is open until May 26, 2022. The number of participants is limited to 50 people and the working language is English.

For all additional questions please contact the e-mail address innovamare@hgk.hr.

Thank you for your cooperation.

TRANSFORMING BLUE ECONOMY FOR SUSTAINABLE ADRIATIC SEA!

2022 InnovaMare Roadshow

Agenda

Hosted by Unioncamere del Veneto - CNR ISMAR

Location: Venice – Padova (Italy)

Date – 31st May – 1st June 2022

Transportation info

Transport is organized individually. Parking space for those who are arriving with car is available in accommodation site.

Participant's info








Process of registration will go through InnovaMare web platform.

Day 1, 31 th May 2022	
Venue: NH Venezia Laguna Palace, viale Ancona 2 Venezia Mestre	
9.00 – 9.30	Get together - registration
9.30-10.00	- 9:30 Opening remarks - InnovaMare project team (Mateo Ivanac - Croatian Chamber of Economy - LP)








	<ul style="list-style-type: none"> - 9:45 Adriatic Sea pollution: an economic problem - InnovaMare project team (Francesca De Pascalis - ISMAR) (15 m)
10.00 – 13.00	<p>World café</p> <ul style="list-style-type: none"> - First activity interactive activities introduction - led by Elena Bortolotti - Fenice Foundation <p>Division into three groups:</p> <ol style="list-style-type: none"> 1. technological innovation 2. environmental monitoring 3. marine pollution prevention and micro-plastics <ul style="list-style-type: none"> - Second activity: “Pitch” (each company, policy makers, students & research institution present themselves and their activities in the realm of the environmental protection in 2-3 minutes) (40 m) Led by Elena Bortolotti - Gaia Giuliani- Simona Vettore – Fenice Foundation - Third activity: “Speed dating” (firms/research institutions/policy makers and students present to identify project ideas and collaboration opportunities) (30m) - Discussion of the emerging views and wrapping up Elena Bortolotti Fenice Foundation <p><i>Coffee will be available from 10.00</i></p>
12.45-14.00	Networking break
15.00-17.00	<p>Visit of the Venice Boat Show and networking sessions</p> <p>"Industry 4.0 and Innovation for the Blue Economy. The experience of the Interreg Projects FUTURE 4.0 and INNOVAMARE"</p> <p>c/o Arsenale - Sala Modelli</p> <p>(Please note that tickets to access the Venice boat show will be provided to participants free of charge by the LP of the FUTURE 4.0 project - Veneto Region)</p>



Day 2, 1 st June 2022	
8.45	Bus transfer from NH Venezia Laguna Palace, viale Ancona 2 Venezia Mestre to Wireless and More
9.30-10.30	<p>Wireless and More – Department of Information Engineering, University of Padova Via Giovanni Gradenigo, 6b, I - 35131 Padova PD</p> <p><i>Wireless and More, a spin-off company of the University of Padova, will present its projects that tackle the various challenges posed by wireless communications in underwater acoustic.</i></p>
10.30-11.00	Bus transfer
11.00-12.00	<p>Demos: Environmental Engineering Department, University of Padova Lungargine Rovetta 8, I-35127 Padova</p> <p><i>Presentation of Circular and Sustainable Waste Management projects of the University of Padua.</i></p>
12.00-12.30	Return to NH Venezia Laguna Palace, viale Ancona 2 Venezia Mestre

Roadshow Venezia
31.05.2022 – 01.06.2022 –
NH Laguna Palace - Venice Boat Show - University of Padua

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CCE	Zeljka Taylor	z.taylor@ngk.hr	Pozlova, Z
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By signing this Attendance list, you agree that you have been informed that your personal data will be gathered in accordance with Article 13 of the Regulation (EU) 2016/679 of the European Parliament and of the Council of 28 April 2016 on the protection of natural persons with regard to the processing of personal data and on the free movement of such data, and repealing Directive 95/46/EC (GDPR - General Data Protection Regulation). That includes video and web-streaming, photography service, and other public activities which ensures project visibility.

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World café groups Roadshow Venezia 31.05.2022

1. Technological innovation
2. Environmental monitoring
3. Marine pollution prevention and micro-plastics

Name and surname

Group number

GIULIO BORTOLUZZI	1
STIPE LUKIN	2
DAVOR BAZENEC	2
ELEWA TOGNON	2
<i>Giulio Bortoluzzi</i>	1
MARCO SACCO	1
MATINA SUKNO	3
JASNA PLETIKOSIĆ	3
EUWORA DI NARA	3
MARISA MIKAR	3
FRANCESCA DE PASCALIS	3

Name and surname	Group number
MATEO IVANAC	1
PETRA KARANIKIĆ	1
ANA MILOŠEVIĆ	1
EDVARD TIJAN	1
CARLO GADALETA CALDAROLA	4
Željka Rajković	3
FRANCISKA TONDI	1
MARGHERITA CHERUBIN	3
Enrico SEGANTIN	1
CRISTIAN PRINZO	1
CACELA MAJURO	1
MARTINA ROSI	1
CIPOLLA ALESSIA	3
FABIO BRUNETTI	1
MARILANDA BIANCINI	3
Blaz CARLO KRŠKAVIČ	3



Industry 4.0 and Innovation for the Blue Economy.
The experience of the Interreg Projects FUTURE 4.0 and INNOVAMARE

Wednesday, May 31st 15.30 – 17.00

Venice International Boat Show 2022, Arsenale - Sala Modelli

Program

- 15.30: Opening
Veneto Region, Directorate for Industry, Craft, Commerce, Services, and Internationalization of Enterprises - FUTURE 4.0 project team
- 15.40: The potential of the Blue Economy for regional growth, advanced technologies, and skills for sustainable development.
MARITIME TECHNOLOGY CLUSTER FVG - InnovaMare project team
- 16.00: The project ADRIAN FUTURE 4.0: experimental methodology of knowledge transfer for innovation to support SMEs' transition toward Industry 4.0
Confindustria Veneto SIAV Spa – FUTURE 4.0 project team
- 16.20: The project Italy-Croatia INNOVAMARE: innovative network for underwater robotics and sensors to prevent marine pollution and boost the sustainability of the Adriatic Sea
Croatian Chamber of Economy – InnovaMare project team
- 16.40 The Blue Growth dimension in the Interreg maritime 21/27 and EUSAIR framework
Veneto Region - Territorial cooperation and European macro-strategies
- 17.00: Conclusions and closure


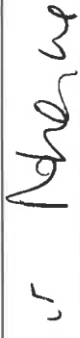







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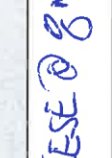

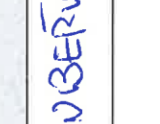






Wednesday, May 31st - Venice Boat Show 2022

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Wednesday, May 31st - Venice Boat Show 2022

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Wednesday, May 31st - Venice Boat Show 2022

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46				

ADRION 1278 FUTURE 4.0 PLUS – WPC 1.2

FUTURE 4.0 PLUS

INDUSTRY 4.0 AND INNOVATION FOR THE BLUE ECONOMY.

THE EXPERIENCE OF THE INTERREG PROJECTS FUTURE 4.0 AND INNOVAMARE

Wednesday, May 31st - Venice Boat Show 2022

PARTICIPANTS

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46				

Report of the Roadshow #3: Rijeka

University of Rijeka, Department of Biotechnology hosted the 3rd roadshow of InnovaMare strategic project on October 24 to 26 2022. The Croatian and Italian partners focused on showcasing the projects results, and how to develop new Interreg projects to fight the Adriatic pollution by further involving maritime countries to implement the Blue Economy. The 3-day event showcased high-tech innovations reached after over two years of successful cross-border cooperation to promote a safer and more sustainable Adriatic Sea. It also laid the foundations for new projects within the next 2021-2027 Interreg Programme aimed at further involving partners from the Adriatic region and strengthening the so called “ecosystem of shared innovation” for a zero polluted sea which is key to implement the Blue Growth.

Organized by the Croatian Chamber of Commerce, leader of the project, and by the Biotech Department of Rijeka University, this event opened under the best auspices after the European Commission explicitly acknowledge the quality and usefulness of the project by selecting InnovaMare amongst many Interreg projects to be showcased in Brussels at the annual “Better Together” celebration (Oct 26 – 28)

In addition to a series of workshops on the theme of the Blue Economy, the 3rd roadshow’s program included the movie projection (on Oct 25th) of “Blue Future”, a WWF production which turns the spotlights on the huge potential of the Mediterranean for sustainable growth and new jobs, followed by a “Blue Future” networking night in cooperation with WWF Adria.



On the first day of Rijeka Roadshow, at UNIRI Campus, Department of Biotechnology, Welcome Remarks were held by Prof. dr. Miranda Mladinic Pejatovic, Head of Department, University of Rijeka, Department of Biotechnology, Prof. dr. Alen Jugović, University of Rijeka, Rector's Assistant for Investment and Innovation Mr. Marko Filipović, Mayor, City of Rijeka and Mr. Vojko Braut, Deputy Perfect, Primorje-Gorski kotar County (announcer: Petra Karanikić, PhD, Associate Professor).

Presenter Mateo Ivanac, InnovaMare project manager, Croatian Chamber of Economy held a presentation of Innovamare project consortium, results and future steps Presentation of DIH Innovamare and its services to potential stakeholders Presentation of Innovamare interactive web platform.



After the break presentations of marine technologies and their applications in public and private sector were held by University of Zagreb, Faculty of Electrical Engineering and Computing and Ruđer Bošković Institute. The underwater robotics company Vectrino CEO Josip Rukavina presented his project "Creating digital twins of underwater structures". Daniela Kalafatovic, PhD, Assistant Professor, University of Rijeka, Department of Biotechnology presented a project "Challenges of microplastic identification and their environmental implications". Vlado Francic, PhD, Associate Professor, Faculty of Maritime Studies, University of Rijeka presented Interreg IT-HR ADRIREEF project. ECONcrete Tech LTD, Paolo Tedone, Business Development Director presented his company.



On day 2, 25.10.2022. at UNIRI Campus, Step Ri - Science and Technology Park of the University of Rijeka, presentations of new projects were held: Interreg IT-HR CLASS 4.0 (by Marco Galanti, Class4.0 Project Manager, t2i – trasferimento tecnologico e innovazione) and Interreg IT-HR DIGSEA (Edvard Tijan, PhD, Associate Professor, University of Rijeka, Faculty of Maritime Studies).



A live streaming was held by Interreg Italy-Croatia: “Our Shared Blue Basin From 14-20 to the new Programme 21-27”, focusing on synergies with other funds and Programmes and the importance of capitalisation activities in Interreg, followed by the presentation of main elements of the first Call for Proposals 2021-2027. After that, a “BLUE FUTURE” documentary (WWEF ADRIA) was shown, followed by networking.



On Oct 26th the University of Rijeka, Faculty of Maritime Studies together with the “Torpedo” Center for Marine Technologies organized practical “Bluetech demos” on how anti-pollution robots and sensors work focusing on how the public and private sectors could make the best use of them. Welcome remarks were made by Ana Perić Hadžić, PhD, Associate Professor, University of Rijeka, Faculty of Maritime Studies Dean, and Petra Karanikić, PhD, Associate Professor, InnovaMare Project Manager, University of Rijeka, Department of Biotechnology.



Several demonstration activities of marine technologies for participants of Roadshow and public were held by University of Zagreb, Faculty of Electrical Engineering and Computing – Laboratory for Underwater Systems and Technologies (LABUST), University of Dubrovnik – Laboratory for Intelligent Autonomous Systems (LARIAT), University of Rijeka, Faculty of Maritime Studies, Center for Marine Technologies and VECTRINO Ltd. (Equipment for rapid acquisition of underwater data).



In the wake of European authorities' appreciation, Italian and Croatian partners in Rijeka highlighted crucial sea-saving and market-oriented innovations in order to leverage new potential partners (public sector, scientific world and SMEs) ready to engage in transferring knowledge and jointly develop new project concept. A "zero-pollution" long-term strategy to implement the Blue Economy in the Adriatic Region is just around the corner.



ANNEXES:

- a. Letter of invitation
- b. Agendas
- c. Attendance lists



Dear,

It is our pleasure to invite you to join us at the third **Roadshow in Rijeka (Croatia)** which will be held from **October 24 to 26, 2022**, as part of the strategic project InnovaMare (www.innovamare.org).

The InnovaMare project, which is implemented within the Interreg program Italy-Croatia, aims to develop and establish an innovation ecosystem in the field of underwater robotics and sensors for pollution control and monitoring in the Adriatic Sea. One of the main challenges of the InnovaMare project is to increase the efficiency of innovation activities in relevant areas of the blue economy. The Croatian Chamber of Economy and the University of Rijeka, Department of Biotechnology, are the organizers of this event, the third in a row.

During these three active days we will have workshops and presentations on marine technologies and their applications delivered by the scientific research sector. They are intended for the private and public sector stakeholders, with the presentation of future trends and forecasts.

To be ready for new financing period and future calls we will work on joint development of new project concepts and the establishment of partner consortia.

On the second day, October 25, we are organizing a “Blue Future“ movie pojection and networking night in cooperation with WWF Adria. We invite you to join us on this Blue Future night and contribute to the protection of the Seas.

On the third day, October 26, we will have a Bluetech demo day organized with the Faculty of Marine Studies, Center for Marine Technologies in Torpedo, Rijeka. There will be a presentation and demonstration of project results, robots, buoys, and other marine technologies.

Please **register** for the Roadshow at the following **link** <https://innovamare.org/application-forms/application-form-rijeka-roadshow-24-26-10-2022/>. **The deadline is October 21, 2022.** Participation is free. Attached is the program of the Roadshow in Rijeka.

We are at your disposal for any additional information.

Best regards,

Mateo Ivanac
InnovaMare project manager

2022 InnovaMare 3rd Roadshow Agenda

Hosted by University of Rijeka, Department of Biotechnology

Locations:

- 1. University of Rijeka Campus, Department of Biotechnology, Hall O-030, Radmile Matejčić2, Rijeka, Croatia (Day 1)**
- 2. University of Rijeka Campus, Step Ri - Science and Technology Park of the University of Rijeka, Radmile Matejčić 10, Rijeka, Croatia (Day 2)**
- 3. University of Rijeka, Faculty of Maritime Studies, Center for Marine Technologies, Milutina Barača 19, Rijeka, Croatia (Day 3)**

Dates – October 24th – 26th 2022.

Transport is organized individually. Parking at the University of Rijeka Campus is free and provided in the buildings of Faculty of Civil Engineering and Student Center Rijeka for those who are arriving by car. The parking will be open 45 minutes before the official start of the event for Days 1 and 2.

The public parking for Day 3 is available at the facilities of the University of Rijeka, Faculty of Maritime Studies, Center for Marine Technologies, Torpedo Hall.

Maximum number of participants is up to 100.

Registration process should be done through Innovamare web platform.

<p>Day 1 – 24.10.2022.</p> <p>UNIRI Campus, Department of Biotechnology, Hall O-030, Radmile Matejčić 2, Rijeka</p>	
10:30-11:00	Get together – registration
11:00-11:30	<p>Welcome Remarks (announcer: Petra Karanikić, PhD, Associate Professor, InnovaMare Project Manager, University of Rijeka, Department of Biotechnology)</p> <p>Prof. dr. Miranda Mladinic Pejatovic, Head of Department, University of Rijeka, Department of Biotechnology</p> <p>Prof. dr. Alen Jugović, University of Rijeka, Rector’s Assistant for Investment and Innovation</p> <p>Mr. Marko Filipović, Mayor, City of Rijeka</p> <p>Mr. Vojko Braut, Deputy Perfect, Primorje-Gorski kotar County</p>
11:30-12:00	<p>Presentation of Innovamare project consortium, results and future steps</p> <p>Presentation of DIH Innovamare and its services to potential stakeholders</p> <p>Presentation of Innovamare interactive web platform</p> <p>Presenter: Mateo Ivanac, InnovaMare project manager, Croatian Chamber of Economy</p>
12:00-13:00	Networking break
13:00-14:00	<p>Presentation of marine technologies and their applications in public and private sector – part 1</p> <p>13:00 – 13:20 University of Zagreb, Faculty of Electrical Engineering and Computing</p> <p>13:20 – 13:40 Ruđer Bošković Institute, Neven Cukrov</p> <p>13:40 – 14:00 Vectrino Ltd, Josip Rukavina, CEO - “Creating digital twins of underwater structures”</p>
14:00-14:15	Coffee break
14:15-15:15	<p>Presentation of marine technologies and their applications in public and private sector – part 2</p> <p>14:15 – 14:30 “Challenges of microplastic identification and their environmental implications”, Daniela Kalafatovic, PhD, Assistant Professor, University of Rijeka, Department of Biotechnology</p> <p>14:30 – 14:45 Interreg IT-HR ADRIREEF project, Vlado Francic, PhD, Associate Professor, Faculty of Maritime Studies, University of Rijeka</p> <p>14:45 – 15:00 University of Zadar, Fran Domazetović</p> <p>15:00 – 15:15 ECONcrete Tech LTD, Paolo Tedone, Business Development Director</p>

Day 2 – 25.10.2022.

UNIRI Campus, Step Ri - Science and Technology Park of the University of Rijeka, Radmile Matejčić 10, Rijeka

9:00-9:30	Get together – registration
9:30-10:00	Presentation of new projects Interreg IT-HR CLASS 4.0 (Marco Galanti, Class4.0 Project Manager, t2i – trasferimento tecnologico e innovazione) Interreg IT-HR DIGSEA (Edvard Tijan, PhD, Associate Professor, University of Rijeka, Faculty of Maritime Studies)
10:00-11:15	Interreg Italy-Croatia: Our Shared Blue Basin From 14-20 to the new Programme 21-27 – live streaming (Part I) <ul style="list-style-type: none"> • Main elements of the first Call for Proposals 2021-2027
11:15-11:30	Coffee break
11:30-13:00	Interreg Italy-Croatia: Our Shared Blue Basin From 14-20 to the new Programme 21-27 – live streaming (Part II) <ul style="list-style-type: none"> • Synergies with other funds and Programmes • The importance of capitalisation activities in Interreg
13:00-14:00	Networking break
18:00-20:00	“BLUE FUTURE”, documentary (WWEF ADRIA) The Mediterranean Sea is calling on its people to work for its protection. Together we can build a future where humans and nature coexist and support each other. #BlueFuture Movie projection and networking.

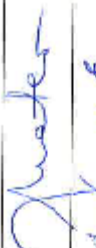




Day 3 – 26.10.2022. - „BLUETECH DEMO DAY”

Projects: InnovaMare and ADRIREEF


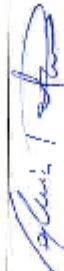



Place: University of Rijeka, Faculty of Maritime Studies, Center for Marine Technologies, Torpedo Hall, Milutina Barača 19, Rijeka

09:00-09:30	Welcome coffee & refreshments (organized by University of Rijeka, Faculty of Maritime Studies)
09:30-10:00	Welcome remarks Ana Perić Hadžić, PhD, Associate Professor, University of Rijeka, Faculty of Maritime Studies, Dean Petra Karanikić, PhD, Associate Professor, InnovaMare Project Manager, University of Rijeka, Department of Biotechnology
10:00-11:30	Demonstration activities of marine technologies for participants of Roadshow and public University of Zagreb, Faculty of Electrical Engineering and Computing – Laboratory for Underwater Systems and Technologies (LABUST) University of Dubrovnik – Laboratory for Intelligent Autonomous Systems (LARIAT) University of Rijeka, Faculty of Maritime Studies, Center for Marine Technologies VECTRINO Ltd. - Equipment for rapid acquisition of underwater data
12:00-13:00	Networking break and wrap-up

Attendance list – Roadshow Rijeka - Rijeka
24.-06.10.2022.

INSTITUTION	NAME AND SURNAME	E-MAIL	CONTACT NUMBER	SIGNATURE
Croatian Chamber of Economy	Mateo Ivanac	mivanac@hgk.hr		
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Croatian Chamber of Economy	Jasna Pleliković	jplet.kosic@hgk.hr		
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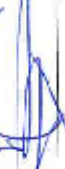
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Polytechnic of Rijeka	Eda Ribarić Čučković	eribaric@veleri.hr		


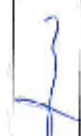
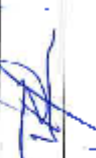
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Report of the Roadshow #4: Bari

ARTI (Apulian Regional Agency for Technology and Innovation) – PP3 - organised, as project partner, the fourth Roadshow of InnovaMare project on 22 and 23 March 2023 in Bari (Italy). The Roadshow was dedicated to the topics of blue technologies and smart solutions for Adriatic Sea.

The event included two days of workshops, demonstration activities and study visits to some regional excellence realities in the field of blue economy. The two days focused mainly on the promotion of networking around the new-born Digital Innovation Hub and on open sea demonstrations of the technologies created for marine safeguard.

On 22 March, the Bari University Sport Center (CUS) hosted the workshop “Cooperation, blue technologies and smart solutions for the sustainability of Adriatic Sea”, two demonstration activities at sea of innovative robotic solutions, and the Lab “2021-2027 Programming Period | New Calls and opportunities”.

On 23 March, the roadshow continued with the Study Visits to two of the most innovative research centers in the area.

During the workshop “**Cooperation, blue technologies and smart solutions for the sustainability of Adriatic Sea**” various experts presented their contributions and experiences with a focus on the project and on the "Digital Innovation Hub", followed by two sessions on "Blue economy in Puglia and the regional Blue Growth strategy" and "Blue technologies and sea smart solutions and their applications”.



In order to implement a better knowledge among project partners, institutions and stakeholders, the first day of event has been divided in different key points:

- **Morning activities**
 - Welcome remarks
 - Innovamare project and Digital Innovation Hub focus
 - Blue economy in Puglia and the regional Blue Growth strategy session
 - Blue technologies and sea smart solutions and their applications session
 - Demonstration activities of marine innovative robotic solution
- **Afternoon activities**
 - Lab: “2021-2027 Programming Period | New calls and opportunities”

The first session of the day started with welcome remarks from Silvia Visciano (Apulia Region – Head of Research and International Relationship Section). The session was moderated by Valeria Patruno (ARTI Puglia).

The workshop continued with the “**InnovaMare project and Digital Innovation Hub focus**” held by Mateo Ivanac - Croatian Chamber of Economy, InnovaMare project manager.

Afterwards, Carlo Gadaleta Caldarola (ARTI Puglia) and Daniela Manuela Di Dio (Apulia Region – Economic Development Department) presented Values and green&blue strategies of Apulia Region in the session “**Blue economy in Puglia and the regional Blue Growth Strategy**”



Then, some innovative realities in the region in blue technologies and sea smart solutions presented themselves and their work on blue technology and innovative aquaculture’s systems:

- Guglielmo Giannini – **G-NOUS** Chief operating officer
- Giuseppe Girone – **DIAMEC** General Manager
- Daniela Iasillo – **Planetek**, Copernicus Strategic Development Manager
- Rita Auriemma – **University of Salento**, Professor of Underwater Archeology



The activities continued with two interesting demonstrations of marine innovative robotic solutions developed within the project by the CNR - National Research Council and the Faculty of Electrical and Computer Engineering of the University of Zagreb:

- **SWAMP** Shallow Water Autonomous Multipurpose Platform – presented by Massimo Caccia, Director of Research, INM-CNR (National Research Council)
- **Smart Buoy** – presented by Anja Babic of University of Zagreb, Faculty of Electrical Engineering and Computing

During the demonstrations the researchers explained the main purpose of these application: the SWAMP is a soft-foam lightweight catamaran that allows monitoring and detecting environmental waste in the Adriatic Sea. The Multifunctional Smart Buoy is a robot for measuring, managing and storing data recorded at sea. These two different robotic solutions were designed to work in an integrated way to maximize results in the fight against maritime pollution.



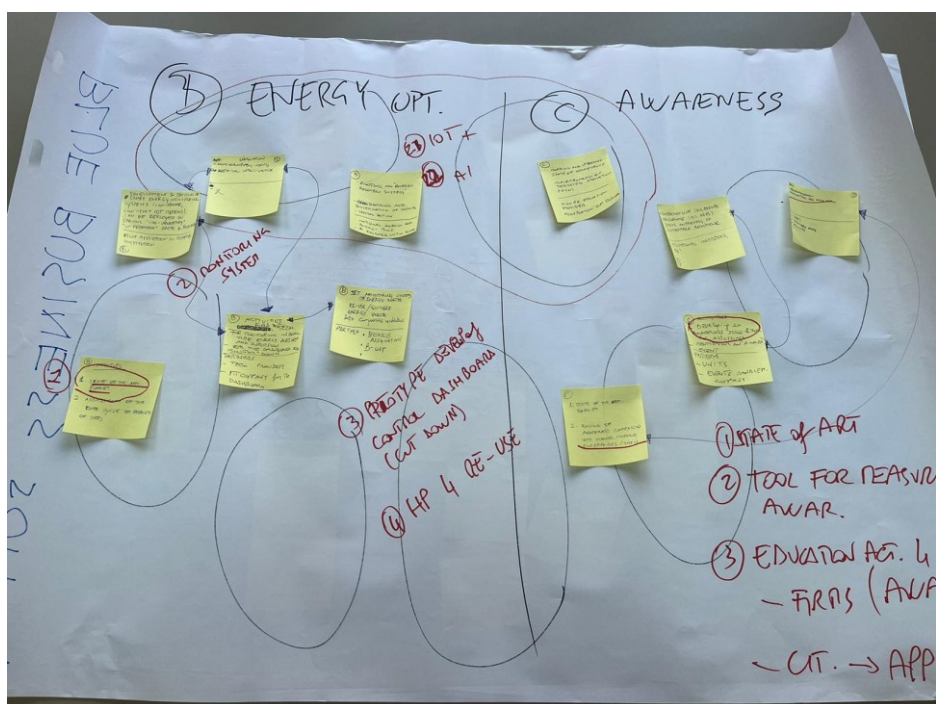
The Lab “**2021-2027 Programming Period | New Calls and opportunities**” started with a session about “Overview of next calls and opportunities”. Rosa Camarda of Apulia Region (Territorial Cooperation) opened the session presenting an overview of 2021-2027 Programming Period.



Following, Mateo Ivanac (Croatian Chamber of Economy) continued to talk about the next programming period, new calls and opportunities.



BLUE BUSINESS SUPPORT (working group 1)



This working group implemented the idea of the “BLUE BUSINESS SUPPORT” starting from three topics:

A. Increase sustainability of blue products along the whole life cycle

They talked about energy recovery and optimization; to reward circular sustainable innovation; to change the mind of enterprises and citizens; about life cycle assessments; to evaluate the circular innovation capabilities of companies; to enhance the use of more sustainable raw materials; of green marina.

B. Energy in companies is wasted and optimization of energy management through recovery, energy saving, and waste management is not monitored

For this topic, they focused on:

- State of art
- Monitoring system
- Prototype development
- control dashboard (cut down)
- HP for reuse

C. Increase entrepreneurial awareness of circular blue economy

In this case, they focused on:

- State of art
- Tool for measuring awareness
- Education act for – firms – citizens

INNOVATION AND DIGITAL (working group 2)

	CHALLENGES	INNOVATION	MOBILITY	DIGITAL
CHALLENGES		<ul style="list-style-type: none"> INDUSTRY 4.0 LACK IN COHERENCE TOOLS TO SNS ASSESSMENT 	<ul style="list-style-type: none"> HAS TO BE INNOVATIVE DIGITAL IMPROVE SUSTAINABLE MOBILITY 	<ul style="list-style-type: none"> REGIONAL GAP IN DIGITAL TRANSFORMATION BIG DATA MANAGEMENT AI - RISKS CYBER SECURITY BLOCK CHAIN
SOLUTION		<ul style="list-style-type: none"> LACK of a common assessment of Innovation 	<ul style="list-style-type: none"> ALTERNATIVE FUELS 	<ul style="list-style-type: none"> TECHNOLOGY TRANSFER OF DIGITAL TECHNOLOGIES
ACTIVITIES		<ul style="list-style-type: none"> MEET SMALL MED ENTERPRISES UNDERSTAND THEIR INNOVATION PROPOSAL TO IMPROVE THEMSELVES ASNE APPROVE THE PROPOSAL START TO WORK 		<ul style="list-style-type: none"> ORGANIZE COACHING GIVE COMPLETE EXAMPLE OF BEST PRACTICES WEB BINARS VIA VIS MEET WITH EXPERTS

OGS
UCV
RBI

FER

This group work focused on the following topics:

1. Innovation
2. Mobility
3. Digital

They proposed a challenge for each topic, analysing problems, solutions and activities to be carried out. For Innovation they talked about Industry 4.0 and lack of a common assessment of innovation

Among the proposed activities have been mentioned:

- meeting with small and medium enterprises
- understand their innovation
- make proposal for improvement
- approve the proposal
- get to work

About mobility they focused on sustainable mobility and alternative fuels.

The challenge for “digital” was instead about regional gap in digital transformation, big data management and cyber security. Among the main solutions and activities proposed to win this challenge they mentioned technology transfer of digital technologies, the organization of coaching, best practices, webinars and meeting with experts and SMEs.

INNOVATIONS AND SKILLS (working group 3)

This working group focused on the following topics:

1. Lack of specific skills in developing innovative survey solutions in the data collecting and management e.g. Boats, smart buoys
2. Difficulty to foresee skills for solving specifying tasks/issues in blue economy sectors
3. Absence of sustainability concept/aspect when defining needed skills

They proposed solutions and concepts to win this challenge:

Solutions

1. Technology foresight on needed skills
2. Interdisciplinary approach – digital, technical, scientific

Concepts 1 and 2:

Activities

- 1 OFFSHORE WINDFARMS
 - Organize hackathons with SMEs
 - Understand needed skills to build windfarms that aren’t built from concrete – there are new methods of building it and new materials
 - There are different types of build – organize specific seminars and courses to upgrade skills and support this new sector – building needs more technological approach because there aren’t built on coastline – and for this we need new skills and knowledge
 - By developing new skills – we are ensuring jobs for people living in this area, reducing pollution
- 2 MONITORING OF THE CONSTRUCTION WORK ON THE SEA AND ITS INFLUENCE



On March 23rd, 2023 the roadshow continued with the Study Visits to two of the most innovative research centers in the area: the Coastal Engineering Laboratory (LIC) of the DICATECh - Polytechnic of Bari, in Valenzano (BA) and the Labruna s.r.l. – Marine Division, in Monopoli (Ba).

- The first study visit was held at LIC Laboratory of Coastal Engineering in Valenzano, a national excellence for its state-of-the-art instrumentation applied to coastal dynamics modelling and wave motion detection, where the professor Michele Mossa presented and showed all the activities about the contribution of physical models and field monitoring for the sea environmental safeguard and coastal management.



- The second study visit took place at Company AS LABRUNA, based in Monopoli, a leading Italian manufacturer of “green”, electric and hybrid-powered engines for the marine industry. The CEO of the company, Massimo Labruna, showed what they are working on to have vessels with no harmful impact on the sea and how to make possible that sustainability and mobility could coexist in balance in the ecosystem.



ANNEXES:

- Agendas
- Attendance lists

TRANSFORMING BLUE ECONOMY FOR SUSTAINABLE ADRIATIC SEA!

InnovaMare Fourth Roadshow

Agenda

Hosted by ARTI Puglia Location: Bari (Italy)

Date: 22nd - 23rd March 2023

Participant's info

It is defined that max number of participants is up to 50.
Process of registration will go through InnovaMare web platform.

Transportation info

Transport is organized individually. A bus is available from the city centre to the venue of the activities and come back.

Language

The event will be held in English language

Day 1, 22nd March 2023	
Venue: CUS Bari - Lungomare Starita 1/A-B - BARI	
09.00-09.30	<i>Get together and registration</i>
09.30-12.00	<p>Workshop: “Cooperation, blue technologies and smart solutions for the sustainability of the Adriatic Sea”</p> <p style="text-align: center;">Moderated by: <i>Valeria Patruno</i>, ARTI Puglia</p> <p>Welcome remarks</p> <p>InnovaMare project and Digital Innovation Hub focus <i>Mateo Ivanac</i> - Croatian Chamber of Economy, InnovaMare project manager</p> <p>Blue economy in Puglia and the regional Blue Growth strategy <i>Carlo Gadaleta Caldarola</i> - ARTI Puglia, Project manager <i>Daniela Manuela Di Dio</i> - Puglia Region, Economic Development Department</p> <p>Blue technologies and sea smart solutions and their applications</p> <ul style="list-style-type: none"> • <i>Guglielmo Giannini</i> - G-NOUS Chief Operating Officer • <i>Giuseppe Girone</i> - DIAMEC General Manager • <i>Daniela Iasillo</i> - Planetek, Copernicus Strategic Development Manager • <i>Rita Auriemma</i> - University of Salento, Professor of Underwater Archeology <p>Conclusions <i>Silvia Visciano</i> - Puglia Region, Head of Research and International Relationships Section</p>
12.00-13.00	<p>Demonstration activities of marine innovative robotic solutions</p> <ul style="list-style-type: none"> • <i>Massimo Caccia</i> - Director of Research, INM-CNR (National Research Council) • <i>Dr. Anja Babić</i> - University of Zagreb, Faculty of Electrical Engineering and Computing, Leading Researcher

13.00-14.30	<i>Networking Lunch break (for partners and speakers)</i>
14.30-16.30	<p>Lab: “2021-2027 Programming Period New calls and opportunities” <i>(for partners and speakers)</i></p> <ul style="list-style-type: none"> • Overview of next calls and opportunities <ul style="list-style-type: none"> - <i>Rosa Camarda and Mariantonietta Racanelli - Puglia Region, Territorial cooperation</i> - <i>Mateo Ivanac - Croatian Chamber of Economy, InnovaMare project manager</i> • LAB: Development of project concepts and partnership consortiums for EU funding

Day 2, 23rd March 2023	
<i>08.30 Shuttle departure: Camera di Commercio di Bari - Corso Cavour, 2 – BARI</i>	
Study visits	
09.00-10.30	<p>Study visit/1 at Coastal Engineering Laboratory (LIC) of DICATECh - Technical University of Bari (Valenzano) <i>Laboratory with experimental equipment for studying 3-dimensional and 2-dimensional physical models of beach and port protection works</i></p>
12.00-13.30	<i>Appetizer/Light lunch in Monopoli</i>
14.00-15.30	<p>Study visit/2 at Labruna s.r.l. – Marine Division (Monopoli) <i>Company at the forefront of technology and development</i></p>
<i>16.30 Shuttle arrival: Camera di Commercio di Bari - Corso Cavour, 2 – BARI</i>	



Workshop COOPERATION, BLUE TECHNOLOGIES AND SMART SOLUTIONS FOR THE SUSTAINABILITY OF THE ADRIATIC SEA



March, 22

Lead Applicant



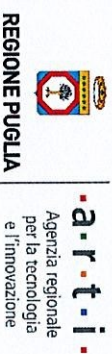
Partners



UNIONCAMERE
VENETO



UNIVERSITÀ
DEGLI STUDI DI TRIESTE



Associated Partner

Communication
Technology



European Regional Development Fund





www.italy-croatia.eu/innovamare

ATTENDANCE LIST

Attendance list –Workshop: “Cooperation, blue technologies and smart solutions for the sustainability of the Adriatic Sea”
Cus Bari, 22.03.2023

INSTITUTION	NAME AND SURNAME	E-MAIL	CONTACT NUMBER	SIGNATURE
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CIHEAM BARI	Baglivo Salvatore	baglivo@iamb.it	3477810605	
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Tergeste Power and Propulsion	Baroni Carlo	carlo.baroni@tergestepowerandpropulsion.com	0481723440	




By signing this Attendance list, you agree that you have been informed that your personal data will be gathered in accordance with Article 13 of the Regulation (EU) 2016/679 of the European Parliament and of the Council of 28 April 2016 on the protection of natural persons with regard to the processing of personal data and on the free movement of such data, and repealing Directive 95/46/EC (GDPR - General Data Protection Regulation). That includes video and web-streaming, photography service, and other public activities which ensures project visibility.

INSTITUTION	NAME AND SURNAME	E-MAIL	CONTACT NUMBER	SIGNATURE
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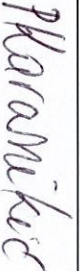


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INSTITUTION	NAME AND SURNAME	E-MAIL	CONTACT NUMBER	SIGNATURE
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G-Nous	Giannini Guglielmo	GUGLIELMO.GIANNINI@G-NOUS.COM	340 5511259	
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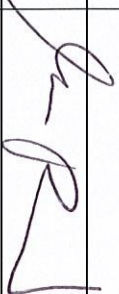
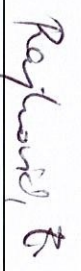

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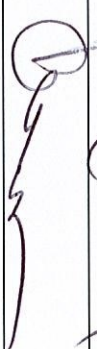
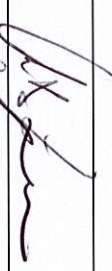




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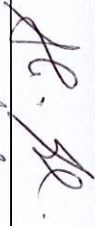




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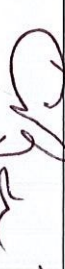
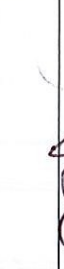



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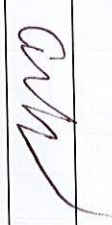


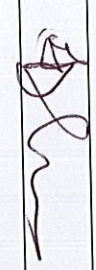
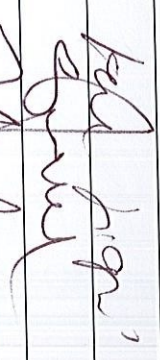

INSTITUTION	NAME AND SURNAME	E-MAIL	CONTACT NUMBER	SIGNATURE
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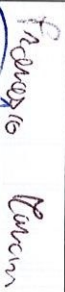



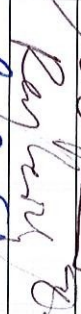



Attendance list – STUDY VISIT
 23.03.2023

COMPANY / INSTITUTION NAME	SURNAME	NAME	E-MAIL	CONTACT NUMBER	SIGNATURE
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GEOMAR d.o.o.	Bakašun	Marko	marko@geomar.hr	38598371194	
Tergeste Power and Propulsion	Baroni	Carlo	carlo.baroni@tergestepowerandpropulsion.com	390481723440	
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Istituto Nazionale di Oceanografia e Geofisica Sperimentale - OGS	Brunetti	Fabio	fbrunetti@inogs.it	3207468289	
Consiglio Nazionale delle Ricerche	Caccia	Massimo	massimo.caccia@cnr.it	393665680482	


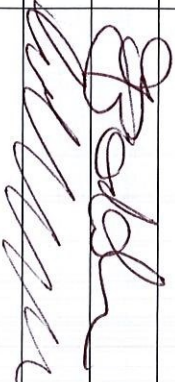
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Azzurra TV Italia	De Gregorio	Vincenzo	azzurratvitaliadir@libero.it	3770881568	
Blue Knots	Demarchi <input checked="" type="checkbox"/>	Valentina	demarchi.valentina@outlook.it	3395089755	
FL	Di Leo	Ivano			
	Dinoi <input checked="" type="checkbox"/>	Alessia	alexiadinoi@gmail.com	3485680891	
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	ivanac	Mateo			

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COMPANY / INSTITUTION NAME	SURNAME	NAME	E-MAIL	CONTACT NUMBER	SIGNATURE
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Conclusion

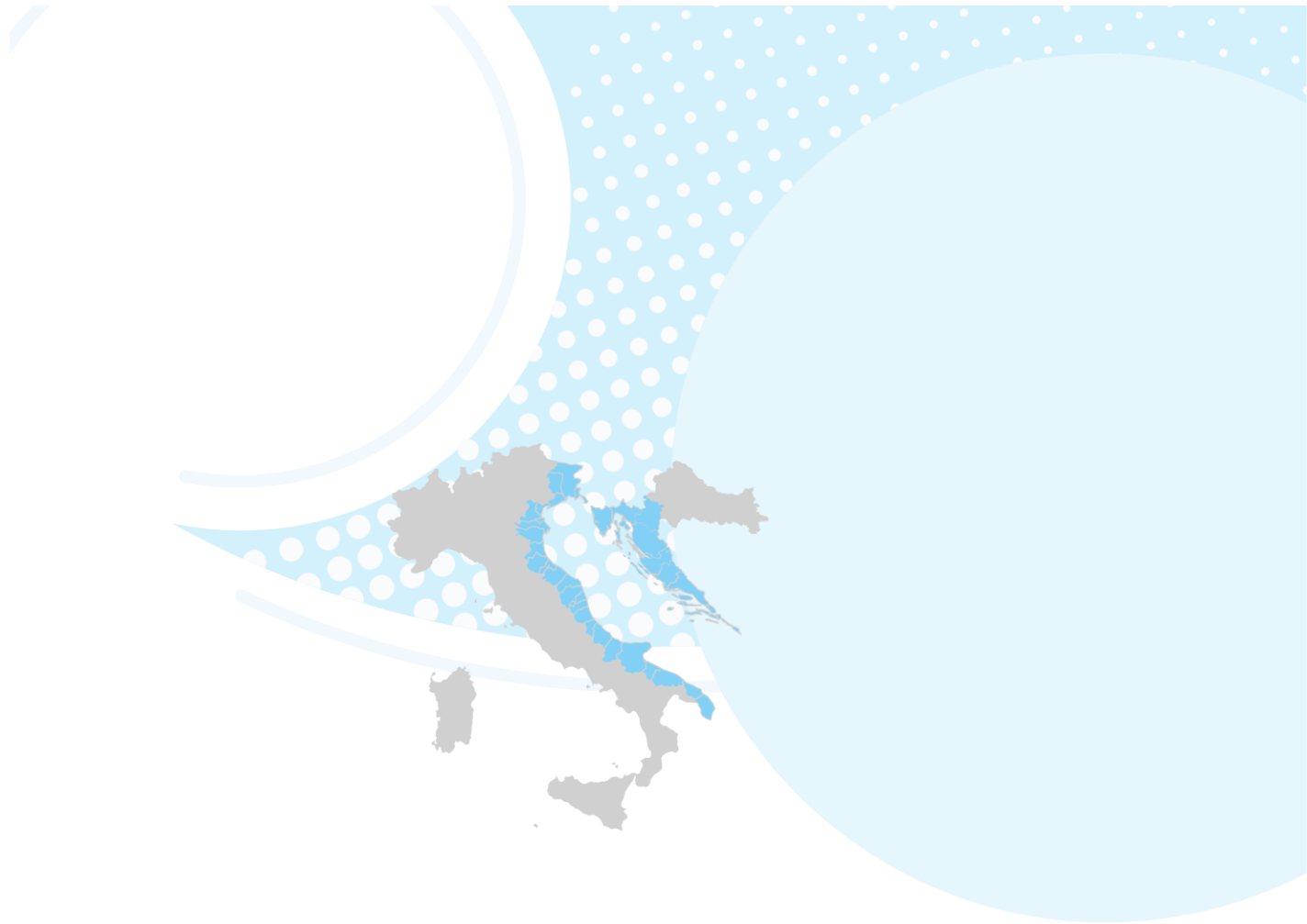
The events that took place at the four Roadshows were a part of the InnovaMare strategic project activities to promote cross-border cooperation between Italy and Croatia and implement the Blue Economy by increasing the transfer of knowledge amongst partners and stakeholders. Robotic and underwater innovations to preserve the Adriatic Sea have been under the spotlight of the scientific and professional community for some time, and the above-mentioned Roadshows were a valuable addition to the undergoing research and improvements. The roadshows brought to the public attention the results of almost two years of activities aimed at building a shared stakeholders ecosystem of innovation through a multidisciplinary approach to foster Adriatic sustainability.

According to the Croatian Chamber of Economy, “successful cross-border cooperation so far has been proving to be very effective in strengthening the partners’ consortium teamwork and allow it to reach valuable results in terms of technological, market-oriented innovations”. Scheduled events in Dubrovnik, Venice, Rijeka and Bari included a series of workshops and practical demonstrations of new industrial applications against marine pollution based on robotic solutions.

During the Roadshows, the Innovamare innovation interactive platform was presented, a shared web space amongst project’s key players where private sector, public institutions, research centers and experts from different countries will keep in touch to further promote innovations based on specific knowledge transfer. Together with the Interactive Platform, the most ambitious result of InnovaMare Project: the Digital Innovation Hub (DIH) was presented, a digital place for networking, exchanging knowledge and connecting supply and demand for highly innovative underwater anti-pollution technologies. DIH will also offer to potential users a wide range of services like specific advices in legal, strategic and financial fields.

During presentations and demonstrations numerous new models/solutions for the application of marine technologies were presented, for example a system of unmanned underwater and surface vessels for finding and collecting waste from the seabed, a robot that identifies, collects and sorts waste from the sea surface, an autonomous vehicle that can map congested water areas, etc.

The Roadshows represented an important opportunity for networking, developing joint innovative projects and building new consortiums to apply for future calls in the Blue economy sectors. More information is available on Innovamare platform <https://innovamare.org/>. InnovaMare Project aims at establishing a cross-border innovation ecosystem model in the area of underwater robotics to monitor and prevent Adriatic Sea pollution. Funded by Interreg Italy - Croatia CBC Program 2014 – 2020 the project is led by the Croatian Chamber of Economy and implemented by 13 partners from both countries including universities, maritime institutes, business support institutions, SMEs, regional and local public bodies (www.italy-croatia.eu/innovamare).



PROJECT PARTNERS

Lead Applicant



Consiglio Nazionale delle Ricerche



Associated Partner



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