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*Innovative marine technologies for sustainable blue economy*

*Innovamare innovation ecosystem*

***FINAL CONFERENCE***

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**Conference insight:**

Idea of this conference is to engage quadruple-helix stakeholders in discussion on needs and opportunities of digital and green transformation of blue economy in Croatia and Italy. How this cross-border cooperation can be better and what are common goals.

This final conference will be opportunity to present results of strategic project Innovamare, present Digital Innovation Hub Innovamare and Living Lab in Adriatic Sea. Quadruple-helix stakeholders will discuss on panel on how they are supporting this process of digital and green transformation and on the other hand listen to challenges they are facing and needs for faster implementation.

**Place:** Šibenik

**Date:** 12<sup>th</sup> of May 2023.

**Duration:** 10.00-16.00

Max range of 80 participants.

**Program:**

10.00-10.30	<b>Registration</b>
10.30-11.00 Opening speech – 30'	<p><b>Polytechnic of Šibenik</b> – Frane Urem, Vice Dean</p> <p><b>Šibenik-knin county</b>– Marko Jelić, County prefect</p> <p><b>Croatian Chamber of Economy</b> - Tomislav Radoš, Vice president</p> <p><b>Managing authority of Interreg Ita-Croatia</b></p> <p><b>Ministry of regional development and EU funding</b> , Šime Erlić, Minister</p>
11.00-11.30 Promo video DIH Innovamare 5' Presentation of DIH Innovamare 15'	<p><b>Croatian Chamber of Economy/Digital Innovation Hub Innovamare</b> – Mateo Ivanac</p>
11.30-13.00 Panel discussion – Opportunities and challenges in development of innovation ecosystem for digital and green transformation of blue economy	<p><b>Scientific-research sector:</b> University of Zadar Tomislav Šarić, Ruđer Bošković Institute – Neven Cukrov and CNR ISMAR - Istituto di Scienze Marine – Francesca De Pascalis</p> <p><b>Private sector:</b> Iskra Shipyard – Roko Vuletić, , Sea Cras d.o.o. – Mario Špadina, Mare FVG – Carlo Krašković</p> <p><b>Public sector:</b> <b>Ministry of regional development and EU funding</b> – Marija Rajaković</p> <p><b>Financial sector:</b> <b>European Investment Bank</b> - Antonella Calvia-Goetz</p> <p><b>Moderator:</b> Mateo Ivanac</p>

13.00-13.20	Ceremonial awarding of certificates to Academy participants
13.20-14.00	Networking break
14.00-16.00 Demonstration sites of Living Lab Adriatic Sea	<p><b>1. Demonstration of marine technologies in Martinska</b> IRB FER, UNIZD, CNR ISMAR, OGS, GEOMAR, VECTRINO, SALONA VAR</p> <p><b>2. Samples collection with IRB</b> - two groups with 7 participants together with IRB on research boat</p> <p><b>3. Visitor centre Minerska</b> – tour to the centre with representative of Šibenik-knin county and networking</p>

### KEY BLUE ECONOMY SECTORS

1. Fisheries and Aquaculture: This sector involves the farming, harvesting, processing, and marketing of aquatic plants and animals, such as fish, shrimp, and shellfish.
2. Maritime Transportation: This sector includes shipping, ports, and related services, such as logistics, freight forwarding, and cargo handling.
3. Renewable Energy: This sector involves the generation of energy from sources such as wind, waves, tides, and currents.
4. Tourism and Recreation: This sector includes activities such as coastal tourism, recreation, and marine wildlife watching.
5. Coastal Infrastructure: This sector involves the construction and maintenance of infrastructure, such as coastal protection and erosion control, as well as the development of marine-based renewable energy infrastructure.
6. Biotechnology: This sector involves the development of new products and processes based on marine organisms, such as pharmaceuticals, cosmetics, and nutritional supplements.

## MARINE TECHNOLOGIES

1. Autonomous Surface Vehicles (ASVs) and Unmanned Surface Vehicles (USVs): These are robotic boats that can be used for a variety of tasks, such as surveying, monitoring, and mapping the ocean.
2. Underwater Gliders: These are autonomous underwater vehicles that use changes in buoyancy to move up and down through the water column, allowing them to cover large areas while collecting data on temperature, salinity, and other oceanographic parameters.
3. Ocean Energy: Technologies that harness energy from ocean currents, tides, and waves are becoming more advanced and efficient, making it possible to generate electricity from these sources.
4. Marine Robotics: Advancement in the design and construction of robot for deep sea exploration, monitoring, and maintenance of marine facilities.
5. Blue carbon: methods to sequester carbon dioxide from the atmosphere in coastal ecosystems such as mangroves, salt marshes, and seagrasses.
6. Advanced imaging and sensing technologies: technologies such as LiDAR, imaging spectroscopy and synthetic aperture sonar are being used to create high-resolution maps of the seafloor and detect objects under the water with great accuracy.
7. Smart Water Systems: IoT-enabled sensors, monitoring and control systems are deployed on the coast and in estuaries to enhance understanding of water quality, and to manage and mitigate the impacts of coastal pollution.