

SUSTAINABLE BLUE ECONOMY IN CONTEXT OF CLIMATE CHANGE AND BIODIVERSITY

DEGRADATION POWERED BY MARINE TECHNOLOGIES

Business and science collaboration

Idea of this conference is to engage quadruple-helix stakeholders in discussion on challenges and opportunities for more sustainable blue economy in EU and World taking into consideration climate change and biodiversity degradation.

How digital and green transformation with innovative marine technologies can be a tool for better monitoring and protection of marine ecosystem.

Conference will be opportunity to hear decision makers from Croatia and other countries on how they are supporting this process of digital and green transformation and on the other hand listen to representatives of private sector on challenges they are facing and needs for faster implementation.

Scientific-research sector should present their findings in challenges that we are facing in context of climate change and biodiversity.

Place: Ceremonial Hall University of Zadar, Mihovila Pavlinovića 1, 23000 Zadar

Date: 10th of April 2024

Duration: 6 h and 15 min, 10:00 – 16:15

Programme

10.00-10.45 (45 min) Introductory speech – 5' p.p.	Ministry of regional development and EU Funds – Mr. Šime Erlić, minister (tbc) Ministry of Sea, Transport and Infrastructure – Mr. Josip Bilaver, state secretary (tbc) University of Zadar – prof.dr.sc. Josip Faričić, rector City of Zadar – dr.med. Branko Dukić, mayor Zadar county - g. Božidar Longin, county prefect (tbc) Italian Embassy in Republic of Croatia – H.E., Mr. Paolo Trichilo Royal Norwegian Embassy in Republic of Croatia - Mr. Helge Klouman Marstrande, deputy Ambassador Maritime Research Center – Mr. Arnab Das, CEO
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<p>10.45-11.00 Promo video DIH Innovamare 5' Presentation of DIH Innovamare 10'</p>	<p>DIH Innovamare team</p>
<p>11.00-12.00 Panel discussion – How to respond to challenges coming from climate change and blue economy activities on biodiversity degradation for sustainable blue economy</p>	<p>Scientific-research sector: University of Zadar – Department for ecology, agronomy and aquaculture - izv. prof.dr.sc. Lav Bavčević Ruđer Bošković Institute – Center for Marine Research – dr.sc. Martin Pfannkuchen, head of division Public sector: Ministry of the Sea, Transport and Infrastructure – Maritime Safety Directorate - cap. Siniša Orlić, director (tbc) Ministry of Economy and Sustainable Development – Institute for Environmental and Nature protection – dr. sc. Aljoša Duplić, director Private sector: Croatian Chamber of Economy - Mr. Tomislav Radoš, vice-president WWF Adria – Mrs. Dunja Mazzocco Drvar, director of Protected Area Programme Public sector: Krka National Park – Mrs. Nella Slavica, director Moderator: DIH Innovamare, Mr. Mateo Ivanac, CEO</p>
<p>12.00-13.00 Networking break</p>	<ul style="list-style-type: none"> • Signing framework collaboration agreement with Ocean Autonomy Cluster, Norway as a step of establishment of maritime innovation network between Croatia and Norway • B2B meetings with Norwegian companies

<p>13.00-14.15 Round table 1 – Marine technologies for digital and green transformation of blue economy sectors</p>	<p>Scientific-research sector: University of Zadar – Maritime department - izv.prof.dr.sc. Marko Valčić</p> <p>Faculty of Maritime studies Split - Institute for Marine Electrical Engineering and Informatics - izv.prof.dr.sc. Maja Krčum</p> <p>Private sector: AITAC d.o.o. - Mr. Marijan Lorencin, CEO</p> <p>Business supporting organisations: DIH Innovamare - Mr. Ljubomir Pozder, research and development engineer</p> <p>Public sector: Public Institution “Nature Park Telašćica” (tbc)</p> <p>Moderator: Faculty for electronic and computing Zagreb - Department of Control and Computer Engineering – dr.sc. Nadir Kapetanović, lead researcher</p>
<p>13.00-14.15 Round table 2 – How to expand and improve production in Aquaculture and fishery and lower impact on marine ecosystem</p>	<p>Scientific-research sector: University of Zadar – Department for ecology, agronomy and aquaculture - izv.prof.dr.sc. Tomislav Šarić</p> <p>Private sector: Bedalov d.o.o. - dr.sc. Ana Bedalov, CEO Cromaris d.d. – Mr. Ivan Leko, President of the Management Board WWF Adria – Mr. Fabijan Peronja, senior project leader for sustainable blue economy</p> <p>Business supporting organisations: DIH Agrifood, Mr. Matija Bumbak, CEO</p> <p>Public sector: Zadar county - Directory for Maritime Affairs, Sea and Transport – Mr. Krešimir Laštro, director</p> <p>Moderator: Platforma 22 - Mr. Krešimir Kovač, Project leader</p>
<p>14.15-14.45 Networking break and B2B meetings</p>	<p>B2B meetings with Norwegian companies</p>
<p>14.45-16.00 Round table 3 – What is the future of Shipbuilding and maritime transportation with digital and green transformation</p>	<p>Scientific-research sector: University of Zadar – Department for Maritime Studies – izv.prof.dr.sc. Josip Orović</p> <p>Business supporting organisations: Lurssen-Marinn - Mrs. Ana Odak, president of the organization</p>

	<p>Misli More d.o.o. - Ms. Ana Čalić, CEO</p> <p>Private sector: ISKRA shipyard 1 d.o.o. - Mr. Roko Vuletić, CEO Jadrolinija d.d. – Mr. Riano Bukša, board member</p> <p>Public sector: Ministry of Sea, Transport and Infrastructure - Sector of navigation safety and environmental protection at sea and inland waters - Mr. Toni Maričević, head of sector Croatian Ship Registry – construction sector - Mr. Marinko Popović, dipl.ing., head of sector</p> <p>Moderator: DIH Innovamare, Mr. Ljubomir Pozder, R&D engineer</p>
<p>14.45-16.00 Round table 4 – Challenges of coastal and marine tourism to lower impact on marine ecosystem</p>	<p>Scientific-research sector: University of Zadar - Department for tourism and communication science - izv.prof.dr.sc. Božena Krce Miočić</p> <p>Private sector: FALKENSTEINER Hotel Management d.o.o. – Mrs. Jasna Čurković, board member Amadria Park - Solaris - Mrs. Katarina Lilić, board member</p> <p>Javni sektor: Public institution “Nature” Šibenik-knin county - mr.sc. Anita Babačić Ajduk, dipl.ing.biol., manager Šibenik-knin county - dr.sc. Marko Jelić, county prefect Public institution “Natura JADERA” - mr.sc. Morana Bačić, professional manager</p> <p>Moderator: Agency for development of Zadar county - Zadra NOVA – Mrs Marina Dujmović Vuković, manager</p>
<p>16.00-16.15 Closing speech</p>	<p>University of Zadar - prof. dr.sc. Faričić, rector</p>

<p>14.00-16.00 Workshops as a part of a SeaTechHub project</p>	<p>Xenia I. Loizidou i Demetra Orthodoxou</p>
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KEY SECTORS OF BLUE ECONOMY

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.

Project MATIN: Croatia – Norway Marine Technology Innovation network

Activity B2B meetings with Norwegian companies

Date: **10th of April 2024**

Place: **University of Zadar, Mihovila Pavlinovića 1, 23000 Zadar**

Time:

- **12:00 – 13:00**
- **14:15 – 14:45**

B2B meetings are organized on behalf of the MATIN project – Croatia-Norway Marine Technology Innovation network, project partner is: Ocean Autonomy Cluster (run by FI – Fremtidens Industri AS) from Norway, and the project promoter is Digital Innovation HUB Innovamare from Croatia.

Companies and organizations from Norway return visit with continuation of exchange of ideas and potential cooperation framework in Croatia.

Following companies from Norway will participate in B2B meetings:

1. Ocean Space Incubator
2. Ocean Autonomy Cluster
3. Ocean Acces
4. Hurum Plastindustri
5. NjordChallenge
6. BlueEye Robotics
7. EGGS
8. Clean Sea Soltuions

More informations on the companies you may find in application form.



SeaTechHub project: National participatory workshop for the identification of gaps, needs and solutions for the advancement of research and innovation in the Blue Economy of Croatia

Date: **10th of April 2024**

Place: **University of Zadar, Mihovila Pavlinovića 1, 23000 Zadar**

Duration: **2h , 14:00 – 16:00 h**

Number of participants: <50 (5 working groups of 10 people)

Workshop is organized on behalf of the SeaTechHub project and its Croatian partners: Croatian Chamber of Economy, FER, Sibenik Knin County, IN2, Ministry of Science and Education, 20000 Leagues, DIH Agrifood.

The workshop will bring together selected stakeholders working in the sectors of (i) Aquaculture & Fishers, (ii) Smart Ports, (iii) Maritime Protection & Security, (iv) Maritime Technologies, and (v) Research & Education. The primary objective of this workshop is to solicit your valuable insights and perceptions regarding research and innovation gaps and needs within these sectors. Furthermore, we aim to collaboratively develop solutions and measures to address identified challenges.

Results will be compared with results of similar workshop held in Cyprus - the outcomes from both national workshops will contribute to the formulation of a joint Cyprus–Croatia strategy for research and innovation in the Blue Economy.

Moderators: Demetra Orthodoxou + Xenia I. Loizidou

About the lecturers:

XENIA

Xenia Loizidou (PhD) is a Civil and Coastal Engineer (National Technical University of Athens, Imperial College of Science, Technology and Medicine of London, Aristotle University of Thessaloniki).

She is an expert in participatory decision-making, sustainability, and green and blue growth.

DEMETRA

Demetra is a Biochemist (Worcester Polytechnic Institute, MA, USA) with an MSc in Environmental Engineering from Imperial College London. She coordinates the various different EU, local and bicomunal projects at AKTI.