Republika Hrvatska
MINISTARSTVO MORA, PROMETA I INFRASTRUKTURE

HGK
HRVATSKA GOSPODARSKA KOMORA

Sveučilište u Zadru
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Innovamare

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 Fundy** – 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) **Royal Norwegian Embassy in Republic of Croatia -** Mr. Helge Klouman Marstrande, depudy Ambassador **Embassy of Egypt in Republic of Croatia – H.E. Ayman Tharwat Amin Abdel Aziz** (tbc) **Maritime Research Center –** Mr. Arnab Das, CEO

ZADRA NOVA
Agencija za razvoj Zadarske županije

SEACRAS

10.45-11.00 **Promo video DIH Innovamare 5'** **Presentation of DIH Innovamare 10'**	DIH Innovamare team
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**	**Scientific-research sector:** **University of Zadar** – izv. prof.dr.sc. Lav Bavčević **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 (tbc) **Private sector:** **Jadrolinija d.d.** – Mr. Riano Bukša, board member (tbc) **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
12.00-13.00 **Networking break**	• 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

13.00-14.15 **Round table 1 – Marine technologies for digital and green transformation of blue economy sectors**	**Scientific-research sector:** **University of Zadar** - izv.prof.dr.sc. Marko Valčić **Faculty of Maritime studies Split** - Institute for Marine Electrical Engineering and Informatics - izv.prof.dr.sc. Maja Krčum **Private sector:** **AITAC d.o.o.** - Mr. Marijan Lorencin, CEO **Business supporting organisations:** **DIH Innovamare -** Mr. Ljubomir Pozder, research and development engineer **Public sector:** **Public Institution "Nature Park Telašćica"** (tbc) **Zadar County Port Authority** (tbc) **Moderator: Faculty for electronic and computing Zagreb - Department of Control and Computer Engineering** – doc.dr.sc. Đula Nađ, Assistant professor (tbc)
13.00-14.15 **Round table 2 – How to expand and improve production in Aquaculture and fishery and lower impact on marine ecosystem**	**Scientific-research sector:** University of Zadar – izv.prof.dr.sc. Tomislav Šarić **Private sector:** **Bedalov d.o.o.** - dr.sc. Ana Bedalov, CEO **Jadran tuna d.o.o.** - (tbc), **Cromaris d.d.** – Mr. Ivan Leko, President of the Management Board **Kali tuna d.o.o.** (tbc) **WWF Adria** (tbc) **Business supporting organisations:** **DIH Agrifood,** Mr. Matija Bumbak, CEO **Public sector:** **Zadar county - Directory for Maritime Affairs, Sea and Transport –** Mr. Krešimir Laštro, director **Moderator: Platforma 22 -** Mr. Krešimir Kovač, Project leader
14.15-14.45 **Networking break and B2B meetings**	B2B meetings with Norwegian companies
14.45-16.00 **Round table 3 – What is the future of Shipbuilding and maritime transportation**	**Scientific-research sector:** **University of Zadar – Department for Maritime Studies** – izv.prof.dr.sc. Josip Orović

with digital and green transformation	**Business supporting organisations:** **Lurssen-Marinn** - Mrs. Ana Odak, president of the organization **Private sector:** **ISKRA shipyard 1 d.o.o.** - Mr. Roko Vuletić, CEO **Misli More d.o.o.** - Ms. Ana Čalić, CEO **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 **Moderator: DIH Innovamare,** Mr. Ljubomir Pozder, R&D engineer
14.45-16.00 **Round table 4 – Challenges of coastal and marine tourism to lower impact on marine ecosystem**	**Scientific-research sector:** **University of Zadar, Department for tourism and communication science -** izv.prof.dr.sc. Božena Krce Miočić **Private sector:** **FALKENSTEINER Hotel Management d.o.o.** – Mrs. Jasna Čurković, board member **Amadria Park - Solaris** - Mrs. Katarina Lilić, board member **Javni sektor:** **Public institution "Nature" Šibenik-knin county (tbc)** **Šibenik-knin county** - dr.sc. Marko Jelić, county prefect **Public institution "Nature park Vrana lake"** (tbc) **Public institution "Natura JADERA" -** mr.sc. Morana Bačić, professional manager **Moderator**: **Zadra NOVA-** representative to be confirmed
16.00-16.15 **Closing speech**	**University of Zadar -** prof. dr.sc. Faričić, rector

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.