

STRENGTHENING THE CAPACITY FOR EXCELLENCE OF SLOVENIAN
AND CROATIAN INNOVATION ECOSYSTEMS TO SUPPORT THE
DIGITAL AND GREEN TRANSITIONS OF MARITIME REGIONS

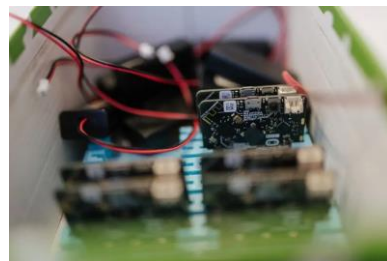
Pilot projects to strengthen the capacity and scientific excellence of Slovenian and Croatian innovation ecosystems

The main part of the project is related to [three pilot projects](#) that address some of the challenges related to advanced approaches to education and training in a virtual environment, maritime safety for vessel autonomy with the support of artificial intelligence and the efficiency of the use and management of alternative energy sources for production systems and processes with the support of digital twins.



Camp SOS mission – shipwrecked rescued!

A camp called [“SOS Mission”](#) took place in Centre of Technical Culture Rijeka in cooperation with the Croatian Association of Ship Modeling. The camp participants, 20 elementary school students from Čabar, Prezid, Krk, Rijeka, and the surrounding area were in charge of rescuing shipwrecked people, giving them information on how to survive a shipwreck and save themselves.



ZOTKS Talents – the biggest event and Award ceremony for Young talents in Slovenia

The Association for the Technical Culture of Slovenia (ZOTKS) celebrated the achievements of talented young individuals at the [ZOTKINI TALENTI gala](#) in Ljubljana's Cankarjev dom. The event recognized students who excelled in national knowledge competitions for young researchers during the 2023/24 school year. Nearly 1,400 attendees, including students, mentors, and other guests, gathered to honor the awardees.



Young talents join Research and drive the future camp

The summer research camp for students [“Research and drive the future”](#) took place on the Faculty of Mechanical Engineering Ljubljana in the first week of July, where, under the mentorship of researchers, high school students from 1st to 3rd year tried out at various workshops, enriched with the program of diverse lectures on the topic of the most current research.



Innovation breakfast: Automation and Digital Transformation in the Maritime Industry: Benefits, Risks and Challenges

[Innovation breakfast](#), hosted by the University of Antwerp and the University of Rijeka, discussed the challenges and opportunities of automation and digital transformation in the maritime industry, highlighting AI integration, workforce inclusion, and regulatory issues. The event stressed the importance of balancing innovation with risk management to ensure sustainable and safe development in the sector.



Advancing Gender Equality in the Maritime Sector

On September 12, 2024, at the Maritime Campus in Antwerp, partner institutions—the University of Rijeka, University of Ljubljana, and University of Antwerp — came together to host an insightful event on [Gender Equality in the Maritime Sector](#). This important conversation brought together industry professionals and researchers to share perspectives and discuss the path towards a more inclusive maritime industry.

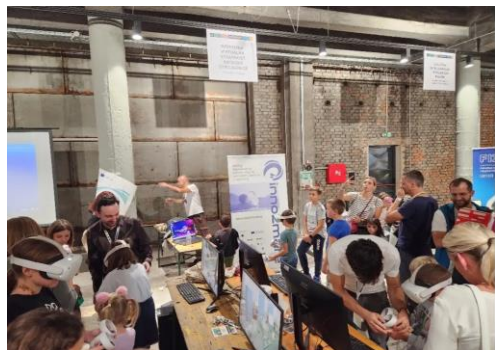


Low-Cost Buoy and Model Ship Experiment: Monitoring Wave Dynamics at Antwerp Maritime Academy

A [low-cost buoy](#), made from a plastic tube and powered by a lead battery, was deployed at the Antwerp Maritime Academy lake to monitor wave patterns and its motion, using a Redshift RSX-UM7 accelerometer connected to an Arduino microcontroller.



INNO2MARE Pilot projects presented at the European Researchers' Night 2024 in Ljubljana, Slovenia and Rijeka, Croatia



[Pilot project 1 presented in Rijeka](#)



[Pilot projects 2 and 3 presented in Ljubljana](#)

INNO2MARE Pilot project 1 presented at the IAMU 2024 Conference

At the [2024 IAMU Conference](#), held at the Massachusetts Maritime Academy, that attracted over 200 participants from 30+ countries, Pilot project 1 was presented featuring a VR-based firefighting training demonstration.



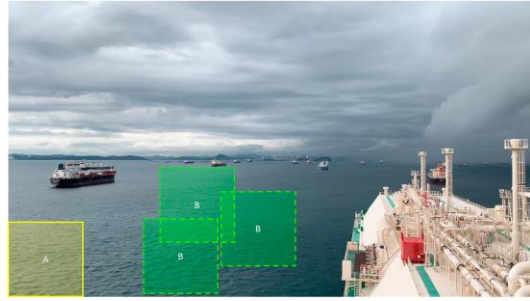
The Faculty of Maritime Studies opened its doors for the Fiumare Maritime Festival

On Friday, September 13, the Faculty of Maritime Studies hosted an Open Day, during which visitors explored exhibits dedicated to maritime themes: "Titanic – Carpathia: 100 Years Later," "Giants of the Sea," "Jadrolinija," "Naval Academy in Rijeka 1866 – 1914," and "Sailor's Knots." High school and university students were introduced to the work with modern navigation and engine simulators, as well as the VR laboratory.



Publishing of latest study on Pilot project 3: Autonomous shipping technology supported by

Faculty of Informatics and Digital Technologies of the University of Rijeka has [published](#) their latest study in a prestigious SCI journal, [Ocean Engineering](#).



Link to DOI: <https://doi.org/10.1016/j.oceaneng.2024.118318>

Publication of the latest study on Pilot Project 1: Improved fire evacuation VR model of a ship engine room in SCI journal

Faculty of Maritime Studies of the University of Rijeka has published their latest study, "[Coupling CFD and VR for Advanced Firefighting Training in a Virtual Ship Engine Room](#)," in a prestigious SCI journal Engineering!



Link to DOI: <https://doi.org/10.1016/j.rineng.2024.103025>

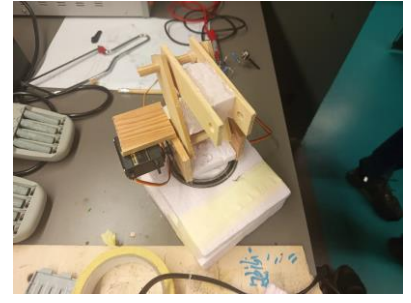
INNO2MARE supports upskilling of innovation ecosystems actors

Partners STEP RI and BSC Kranj jointly organized a workshop [Transformation of products into services](#), that introduced participants with the topic of servitization. Participating entrepreneurs familiarized with the process of improving their offer with additional services and learned how to use tools like Customer journey map.



Robotic hand workshop at CTC Rijeka is finished

At CTC Rijeka from November 19th to 22nd, the [Robotic arm workshop](#) was held, in which eight young people from 15 to 30 years of age participated, primarily secondary school students and university students.



Titanic Challenge Inspires Solutions and Collaboration

The [INNO2MARE Titanic Challenge](#), a two-day international innovation challenge, brought together creative minds from Croatia, Slovenia and Belgium to tackle the maritime challenges inspired by the well-known story of Titanic.



Partners

Coordinator:

