



University of Rijeka, Faculty of Maritime studies

PROJECT ACRONYM AND TITLE: MASK - Marine Robots for better Sea Knowledge awareness

FUNDING PROGRAMME: Erasmus+

PERSON RESPONSIBLE: Lovro Maglić

FINANCIAL DATA

Project total cost	Overall funding assigned to PFRI
€60.000,00	€10.718,00

SUMMARY

The partnership was formed by joining a set of renown higher education institutions with the aim of transferring knowledge in the domain of maritime robotics and artificial intelligence (AI), which will interest students in STEM and encourage them to pursue a career in this direction. The three higher education institutions have significant experience in marine robotics and Artificial Intelligence (AI) both in higher education and the research domain. All partners will be involved in the several activities and the Higher Education Institutions will be responsible for the theoretical lectures, teachers training, remote testing, testing at sea and dissemination. Moreover, project activities will increase the digital skills of the students, contributing to the empowerment of students and raising the readiness and resilience of the future workforce. The end results of project's activities will be: an introductory interdisciplinary study course targeted for high school students on marine robotics and AI and their applications to environmental issues (the course will be composed by the series of lectures performed in this activity and will be replicable and usable by not only the participating organisations but by any other high school), including better awareness of new technologies such as marine robotics and AI among the teachers and better readiness/resilience based on newly acquired digital skills (the future inclusion of marine robotics and AI in extra-curriculum activities), understanding of the practicalities of the deployment and operation of marine robots (students will be able to remotely pilot safely complex marine robots and showing the possibilities of remote learning/remote access to the wide scientific community). The students will benefit by getting hands-on experience with marine robots from higher education institutions with strong experience in the field. They will be able to translate the theoretical concepts learned in the first activity to operational knowledge. Hands-on STEM activities are extremely important to provide both practical skills and contact with the real world which are essential for a future career. Moreover, the students will be able to pilot robots and collect data in environmentally relevant scenarios such as macroplastic pollution and COVID-19-related masks pollution. Project activities will raise awareness about climate change and environmental protection and mitigation by using concrete examples as application scenarios and allowing students to solve socially relevant issues such as the anthropogenic pollution caused by the COVID-19 pandemic. By solving these issues, we expect students become true agents of change and change their behaviour when it comes to polluting the environment.



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Start date	End date
01.11.2022.	01.11.2024.

PARTNERSHIP

Br.	Partner organization	Country	Role
1	UNIVERSITY OF ZAGREB (FER)	HR	Lead partner
2	JACOBS UNIVERSITY BREMEN GGMBH	DE	Partner
3	BEDEKOVČINA SECONDARY SCHOOL	HR	Partner
4	UNIVERSITY OF RIJEKA (PFRI)	HR	Partner
5	SECONDARY SCHOOL CENTER UTBREMEN – EUROPEAN SCHOOL	DE	Partner

WEBSITE: -

ADDITIONAL INFO: -