



University of Rijeka, Faculty of Maritime studies

PROJECT ACRONYM AND TITLE: Sustainable transformation of recreational boats in the Republic of Croatia

FUNDING PROGRAMME: Scientific-Research Project Initiatives of The University of Rijeka (ZIP UNIRI)

PERSON RESPONSIBLE: Aleksandar Cuculić, Ph.D., Associated Professor

FINANCIAL DATA

Project total cost	Overall funding assigned to PFRI
13.073,20 €	13.073,20 €

SUMMARY

The project aims to scientifically investigate the technological possibilities of sustainable transformation of the transport of recreational boats in the Republic of Croatia in order to reduce the harmful impact on the environment in accordance with the objectives of the EU Directive 2013/53/EU. The technologies to be studied, which relate to both vessels and land infrastructure, are intended to facilitate the transition to the use of environmentally friendly electric propulsion and renewable energy sources, without compromising the autonomy and safety of navigation compared to existing solutions.

As this is the first research of its kind in the Republic of Croatia and beyond, it is planned to conduct a series of measurements and tests on existing recreational vessels in order to obtain experimental data for the development of appropriate simulation models. Based on these models, optimization of the considered systems will be performed according to the given criteria, and finally a technical-economic analysis and an analysis of the applicability of the obtained solutions will be performed.

The results of the research should ensure a better understanding of the considered problem and, through the obtained experimental data and developed models, create a foundation that will serve as a basis for further scientific research. In addition, the developed methodology and the results themselves can serve as a decision-making tool and support for the relevant government institutions from the maritime and tourism sectors, in order to facilitate the transition to sustainable maritime transport and the protection of the valuable natural resources of our seas and coasts.

Start date	End date
01.06.2023.	31.05.2026.

WEBSITE: -

ADDITIONAL INFORMATION:

Members of the project team:

- Aleksandar Cuculić, *Faculty of Maritime Studies, University of Rijeka*



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- Ivan Panić, *Faculty of Maritime Studies, University of Rijeka*
- Radoslav Radonja, *Faculty of Maritime Studies, University of Rijeka*
- Rene Prenc, *Faculty of Engineering, University of Rijeka*
- Zvonimir Šoša, *University of Dubrovnik, Maritime department*