



## University of Rijeka, Faculty of Maritime studies

**PROJECT ACRONYM AND TITLE:** TransH2 (Transition to Hydrogen Fuelled Cross-Border Sea-Mobility)

**FUNDING PROGRAMME:** Interreg VI A Italy-Croatia CBC Programme 2021-2027 (ERDF)

**PERSON RESPONSIBLE:** Prof. Edvard Tijan, PhD

### FINANCIAL DATA

Project total cost	Overall funding assigned to PFRI
2.357.035,00 €	402.542,00 €

**TOTAL GRANTED ERDF:** 1.885.628,00 €

### SUMMARY

Project overall objective is to enhance sustainable cross-border sea-mobility by demonstrating feasible solutions for application and usage of zero emission fuels (green hydrogen) in cross-border and regional maritime transport routes and transferring innovative solutions to port authorities, transport operators and other stakeholders across the programme area. TransH2 project will result in creation of a joint cross-border strategy to green maritime routes in focus areas (Croatian counties: Primorsko-Goranska, Šibensko-Kninska, Zadarska; Italian regions: Friuli-Venezia Giulia, Emilia- Romagna).

The project will enable green transition of cross-border maritime transport by demonstrating new solutions and providing concrete investment plans and commitment to increase the use of zero emission fuels until 2050, thus contributing to European green deal goals to reduce maritime sector emissions by 90% and directly contributing to the strategic orientations and expected impacts set in EU mission "Restore our Ocean and Waters" to achieve zero pollution and reduce greenhouse gas emissions within the EU's oceans and waters. TransH2 is focused on development of innovative solutions for CB maritime transport, including hydrogen fueled vessels and the accompanying fueling infrastructure in ports in order to achieve the European Sustainable and Smart Mobility Strategy target: that zero-emission vessels will become ready for market by 2030.

The project partnership represents a Quadruple Helix, multi-disciplinary and cross-sectoral network of 8 partners from Croatia and Italy essential to establish conditions for the emergence of efficient cross-border hydrogen fueled sea-mobility.

Main demonstration activities include research and option analysis for greening maritime transport links (cross-border and regional ones) by introduction of hydrogen fueled transport solutions in cross-border and local marine transport of passengers in pilot areas, development of conceptual design on innovative concepts for hydrogen fueled



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passenger ships for local and cross-border maritime traffic (PoC) and preparation of case studies with full feasibility studies for the pilot areas for introduction of hydrogen fueling stations in port infrastructures.

Start date	End date
01.02.2024.	31.07.2026.

### PARTNERSHIP

Br.	Partner organization	Country	Role
1.	UNIVERSITY OF RIJEKA, FACULTY OF MARITIME STUDIES	Croatia	Lead partner
2.	CROATIAN CHAMBER OF ECONOMY	Croatia	Partner
3.	ZADRA NOVA - Zadar County Development Agency	Croatia	Partner
4.	Urbanex Ltd.	Croatia	Partner
5.	Maritime Technology Cluster FVG S. c.ar.l.	Italy	Partner
6.	Navalprogetti Srl	Italy	Partner
7.	Start Romagna S.p.A.	Italy	Partner
8.	University of Trieste	Italy	Partner

WEBSITE: <https://www.italy-croatia.eu/web/transh2>



Italy – Croatia



### ADDITIONAL INFO:

PFRI project team members:

- Prof. Edvard Tijan, PhD
- Prof. Saša Aksentijević, PhD
- Prof. Irena Jurdana, PhD
- Prof. Predrag Kralj, PhD
- Prof. Mirano Hess, PhD
- Adrijana Agatić, MSc
- Borana Vlastelić, MSc