

Interreg



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 **Brigantine**

Brigantine | University of Udine | Sabina Susmel

Marine technologies and implementation for sustainable blue economy| Padua |13 November 2024

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Programme priority

Sustainable growth in the blue economy

Specific objective

Developing and enhancing research and innovation capacities and the uptake of advanced technologies

BRIGANTINE Project

Chemico-physical and multispectral Data fusion for Adriatic sea monitoring by autonomous vessel

Project start
1° April 2024



Project End
30th September 2026

Partners and External experts



UNIVERSITÀ POLITECNICA DELLE MARCHE



Ruđer Bošković Institute



University of Zagreb Faculty of Mechanical Engineering and Naval Architecture





Develop and implement an **autonomous monitoring surface vessel (ASV)** to assess the health of seaweed and seagrass meadows (SSM).

BRIGANTINE



To enhance the preservation and sustainable management of the Adriatic Sea

To bridge regional disparities in research and innovation, **fostering collaboration** and **technology transfer** between **researchers** and the **blue business SME sector**.



WP1: Cross border Research activity for baselines definition

WP intended for **team building** and to share knowledge about the **monitoring** processes and/or protocols of the **macrophyte meadows**, collect already available info about the health status of them, **choose parameters** to improve the monitoring processes and **sensors to implement the ASV**



WP2: Develop jointly solutions: the autonomous monitoring

WP intended to **conceptualize and design the ASV in all its parts**; 2 ASVs of different sizes are considered to face the differences of the weather and marine features and of the costal orography of IT and HR coastline/offshore





WP3: Knowledge for monitoring and to support the technology transfer

WP aiming to validate the new monitoring device to increase the control efficiency: evaluation of the health status of SSMs together with the chemical-physical and visual characterization of the marine environment close to SSMs in controlled integrated systems_

Data fusion: analytical data + visual information

WP4: Autonomous Boat Monitoring and Policy Development and Stakeholder Engagement

Results of “*multisensorial*” ASV to propose new solutions for smart monitoring of high-value ecosystems, enhance collaborative research and initiatives in the field of blue technologies and eco- innovations



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Several are the Target groups considered by Brigantine, particularly
all the quadruple helix actors, SME, business support agency

We are happy to meet you and discuss about our project...



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