

BRIGANTINE

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

D 3.4.7

Gadgets and Printed materials

Italy – Croatia



Project Acronym	BRIGANTINE
Project ID Number	ITHR0200237
Project Title	Chemico-physical and multispectral Data fusion for Adriatic sea monitoring by autonomous vessel
Priority Axis	1 - Sustainable growth in the blue economy
Specific Objective	1.1 - Developing and enhancing research and innovation capacities and the uptake of advanced technologies
Work Package Number	1
Work Package Title	Increased number of researchers, PhDstudents, new monitoring tool applied to macrophytes observation
Activity Number	A 3.4
Activity Title	Communication: monitoring and its role in technology transfer and in blu economy
Partner in Charge	PP1
Partners involved	PP2, PP3, PP4, PP5
Authors	Dr. Sabina Susmel, Dr. Anna Annibaldi
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Analysis

In this period PP1, PP2 and PP5 with the supervision of LP and CM produced some eco-sustainable and non-disposable gadgets and some printed material (flyers, roll up and totem) updated respect to the progress of the project to use in the event and workshop.

Annexes

Gadgets for events

In the details PP1 produced all these materials:

- Sustainable gadgets, such as a pen, pencil, pencil case, highlighter and an exercise book were produced for COLLEGA-MENTI fair.



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In the details PP2 produced all these materials:

- Sustainable gadgets, such as a pen, pencil, a thermic bag and an exercise book were produced for the 2nd SC & GA and workshop for the local authorities, held in Ancona on 19th March.



Printed materials for events

In the details PP1 produced:

- flyer with the description of the project in Italian Croatian and English languages for the AQUAFARM fair (Pordenone February 2025)



- a front panel for the stand for the AQUAFARM fair (Pordenone February 2025)



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PP1 and PP2 produced a descriptive totem, in Italian Croatian and English languages for the COLLEGA-MENTI fair (Udine October 2024) and for the workshop for the local authorities, held in Ancona on 19th March



Italy – Croatia



PP5 produced a roll up in Croatian and English languages for the exposition in the building hall (University of Zagreb).

Interreg
 Italy - Croatia
 Brigantine

CHEMICO-PHYSICAL AND MULTISPECTRAL
 DATA FUSION FOR ADRIATIC SEA MONITORING
 BY AUTONOMOUS VESSEL
Brigantine

PROJEKT

Projekt Brigantine nastao je u kontekstu očuvanje i zaštita bioraznolikosti jadranskog mora, posebice kroz praćenje podzemskih šljuna algi i biljaka cijemica, koje imaju ključnu ulogu u održavanju vršnih ekosustava. Projekt Brigantine ima za cilj povećati saznanja o rasprostranjenosti i zdravstvenom stanju šljuna algi i morskih biljaka korištenjem namještenih plovila bez posade opremljenima senzorima za vizualno praćenje rasprostranjenosti podzemnih šljuna te mjerenje kemijskih i fizičkih značajki i zagađenja u vodenom stupcu. Pristupljeni podaci omogućit će modeliranje rasprostranjenosti algi i morskih trava, s čijom pomoćju određivanje lokacija praćenja te učinkovite lokalno upravljanje neuravnoteženosti.

Riječ je o inovativno multidisciplinarnom projektu u kojem se objedinjuju znanja i vještine iz područja biologije morskih organizama, mjerenja i analize kemijsko-fizičkih parametara, zapošljavaju i stručnjaci u moru, u svrhu zaštite biološke raznolikosti, kao i iz područja brodogradnje, elektrotehnike i mehatronike, kod izrade jednog manjeg i jednog većeg plovila na daljinsko upravljanje, ali i sposobnih za samostalno plovidbu te prikupljanje podataka bez prisutnosti ljudi.

Konzorcij Brigantine nastao je suradnjom projektnih partnera Sveučilišta u Udinu i partnera Politehnice Sveučilišta Marche, konzorcij CORILA Institut Rudar Bošković, Sveučilište u Zagrebu i Fakultet strojarstva i brodogradnje.

Projekt traje 30 mjeseci, ukupne je vrijednosti 1.716.687 eura, a sufinancira ga EU kroz ERDF i Interreg program prekogranične suradnje Italije – Hrvatske.

ENGLISH

The Brigantine project was created to preserve and protect the biodiversity of the Adriatic Sea, especially through the monitoring of underwater algae meadows and flowering plants, which play a key role in maintaining fragile ecosystems.

The Brigantine project aims to increase knowledge about the distribution and health status of algae and marine plant meadows by using dedicated unmanned vessels equipped with sensors to visually monitor the distribution of underwater meadows and measure chemical and physical characteristics and pollution in the water column. The collected data will enable modeling of the dispersion of algae and sea grasses, to simplify monitoring activities and more effective local management of ecosystem resources.

It is a highly multidisciplinary project that combines knowledge and skills from the biology of marine organisms, measurement and analysis of chemical-physical parameters, pollution and nutrients in the sea, for the purpose of protecting biological diversity, as well as from the fields of shipbuilding, electrical engineering and mechatronics, to create one smaller and one larger remote-controlled vessel, but also capable of independent navigation and data collection without the presence of humans.

The Brigantine consortium was created by the cooperation of the applicant of the project, the University of Udine, and the partner Polytechnic University of Marche, the CORILA consortium, the Rudar Bošković Institute, the University of Zagreb and the Faculty of Mechanical Engineering and Shipbuilding.

The project lasts 30 months, has a total value of 1.716.687 euros, and is co-financed by the EU through the ERDF and Interreg cross-border cooperation program Italy - Croatia.

ORGANIZATION

Brigantine Consortium

CONTACT PERSON

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PROJECT DURATION

04/2024 - 03/2025

ERDF

1.375.000,00 €

TOTAL BUDGET

3.716.687,00 €

PROJECT PARTNERS

www.italy-croatia.eu/brigantine