

2014 - 2020 Interreg V-A Italy - Croatia CBC Programme Call for proposal 2019 Strategic

MARLESS (MARine Litter cross-border awarenESS and innovation actions)

Priority Axis: Environment and cultural heritage; Specific objective: 3.3 - Improve the environmental quality conditions of the sea and coastal area by use of sustainable and innovative technologies and approaches

D 2.2.2 Web/digital tools and materials

2.2. Communication tools, materials and monitoring

WP2

Version: FINAL Distribution: PUBLIC Date: 30.06.2023



Work Package:	ork Package: 2. Communication activities	
Activity:	2.2 Communication tools, materials and monitoring	
WP Leader:	PP9 IRENA – ISTRIAN REGIONAL ENERGY AGENCY L.T.D.	
Deliverable:	D 2.2.2 Web/digital tools and materials	

Version:	FINAL	Date:	30.06.2023		
Туре:	Report				
Availability:	Public				
Responsible Partner:	PP9 IRENA – ISTRIAN REGIONAL ENERGY AGENCY L.T.D.				
Involved Partner	All PPs				
Editor:	Nikola Petrić, PP9 IRENA				
Contributors:	/				

DISCLAIMER : Materials and tools produced reflect the project MARLESS views; the IT-HR Programme authorities are not liable for any use that may be made of the information contained therein.





CONTENT:

1. Introduction	4
2. MARLESS project website	5
3. Project portrait	
4. Short video presenting the project	7
5. Digital publications on relevant paper	8
6. Partners institutional websites	10
7. Video-tutorials e-learning pills for replication of the actions and good practices	12
8. Social media communication (Facebook and YouTube)	16



1. Introduction

Overall Communication Strategy follows "greening" principles, communication tools and materials used are putting priority to electronic dissemination and foresee printing only if necessary. Accent has been put on web/digital tools and materials that will be used as one of the crucial means for the interaction with target groups.

Results produced:

a) MARLESS project website; The format provided by the Programme has been constantly updated with produced project content

- b) project portrait digital flyer in three languages;
- c) short video presenting the project;
- d) digital publications on relevant paper

e) partners institutional websites were updated with projects information and linked to the project website;

- f) video-tutorials (e-learning pills);
- g) social media communication (Facebook and YouTube)



2. MARLESS project website

The format provided by the Programme has been constantly updated with produced project content. CM (PP9 IRENA) collected interesting news, photos, deliverables and other information's from all project partners and uploaded on the <u>MARLESS project website</u>.



Figure 1. MARLESS project website



3. Project portrait

1 project portrait was prepared as digital flyer (PP9 – IRENA). Flyer was prepared in three languages (ENG, IT, CRO) and is available for download from <u>project website</u>. Portrait was used to disseminate most important information's about the project.



Figure 2. Project portrait - digital flyer (ENG version)



4. Short video presenting the project

1 short video presenting the project was developed by PP9 – IRENA and was will be uploaded on project website and disseminated following project events. Videos is also available at <u>MARLESS</u> <u>YouTube page.</u>

Video gives information's about; marine litter and presents project objectives, expected results and project partnership.



Figure 3. Short video presenting the MARLESS project



5. Digital publications on relevant paper

Publication issue at "MICRO 2022 ON-LINE ATLAS EDITION, PLASTIC POLLUTION FROM MACRO TO NANO" by PP7 Ruđer Bošković Institute.

Article: Assessment of microplastic particles ingested by Mytilus galloprovincialis along the Adriatic coast

Description: One of the most widespread pollutant and an emerging threat to marine ecosystem are microplastic particles (MPs) smaller than 5mm in size (Mercogliano et al., 2021). After MPs being ingested by an organism via filter feeding or predation they can cause changes in feeding and reproductive behavior but also have a toxic effect due to pollutants and other harmful compounds adsorbed on the surface of MPs (Bajt, 2021) which puts the ecosystem food chain at risk. MPs have been detected in mussels and fish around the world and many other marine organisms. Due to their broad geographical distribution and easy accessibility, mussels have been widely used for biomonitoring studies in the marine environment (Pizzurro et al., 2022). As filter feeding organisms, mussels process large volumes of water (7-8 L on average) and consequently accumulate and concentrate surrounding pollutants (Bajt, 2021). They provide a suitable amount of tissue for analysis and are easily collected (Pizzurro et al., 2022). For this research, mussels Mytilus galloprovincialis, were sampled in 6 different stations located in the Adriatic Sea in the framework of the INTERREG IT-HR MARLESS pilot project with a total of 176 analyzed mussels. Samples were digested with acid and extracted with saturated sodium chloride solution. The solution was then filtered on a filter which was examined under the stereomicroscope. MPs were categorized by shape, size and color. MPs are found in all the sampled regions. The results showed that the average frequency of MP occurrence (%F) is 80% with an average numerical abundance (%N) of 3 MP per mussel. Filaments are found to be the most prevalent group followed by plastic fragments while pellets were found only in one sample.

Author: Fornažar Marija, Stinga Perusco Victor, Baricevic Ana, Maric Pfannkuchen Daniela, Kogovsek Tjasa, Pfannkuchen Martin, Smodlaka Tankovic Mirta.





Figure 5. MICRO 2022 cover

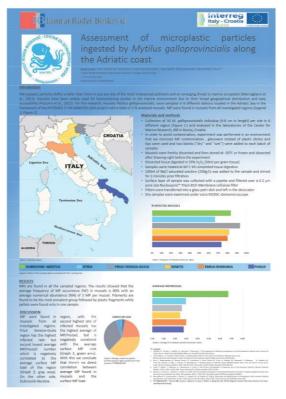


Figure 6. Assessment of microplastic particles ingested by Mytilus galloprovincialis along the Adriatic coast



6. Partners institutional websites

Partners institutional websites were updated with projects information and linked to the project website.

Project partners:

LP - REGIONAL AGENCY FOR ENVIRONMENTAL PROTECTION AND PREVENTION OF VENETO

PP1 – THE MINISTRY OF ECONOMY AND SUSTAINABLE DEVELOPMENT

PP2 - AUTONOMOUS REGION FRIULI VENEZIA GIULIA

PP3 – REGIONAL DEVELOPMENT AGENCY DUBROVNIK-NERETVA COUNTY–DUNEA

PP4 - CETACEA FOUNDATION

PP5 – UNIVERSITY OF DUBROVNIK

PP6 – ALMA MATER STUDIORUM –UNIVERSITY OF BOLOGNA

PP7 –INSTITUT RUĐER BOŠKOVIĆ

PP9 – IRENA – ISTRIAN REGIONAL ENERGY AGENCY L.T.D.

PP10 - APULIA REGION

PP11 - REGION OF VENETO





Opći podaci | Informacije i projekti | Dokumenti i natječaji | Pilot instalacije | Materijali | Registar tvrtki | Pravo na pristup podacima

♠ Početna > Informacije i projekti > MARLESS MARine Litter cross-border awarenESS and innovation actions



Projekt MARLESS (MARine Litter cross-border awarenESS and innovation actions) provodi konkretne i zajedničke intervencije usmjerene na rješavanje problema morskog otpada na Jadranskom moru s različitih gledišta i metode intervencije. Projekt če stoja implementrali razne akcije pračenja, upravljanja, prevencija i uklanjanje morskog otpada. Također, provesti će se kampanja za podizanje svijesti i aktivnosti obuke upućene različitim akterima (školama, hotelijerima, građanima Id.) te će se provesti niz eksperimentalnih pilot projekta koji će biti usmjereni na pronalaženje učinkovitih njedenja za uklanjanje i tretman morskog otpada.

MARLESS se financira kroz Program prekogranične suradnje Italija-Hrvatske 2014-2020. (engl. Cross Border Cooperation Programme Italy-Croatia 2014-2020.) te će se provoditi u periodu od 01.06.2020. do 31.12.2020. godine. Ukupni budžet projektaj je 4.244.726,00 €, dok je IRENA-I Istarskoj Regionalnoj Energetskoj Agenciji odobreno 269.003,00 €, od čega 85% sredstava finacira Program Italija-Hrvatska, a preostalih 15% se osigurava vlastitim sredstvima.

Osim IRENA-e, u projektu sudjeluje još 11 partnera iz više regija sjevernog i južnog Jadrana. Glavni partner je Regionalna agencija za zaštitu okoliša i prevenciju iz Veneta (Regional Agency For Environmental Protection and Prevention of Veneto), a u projektu još suraduju regije Veneto, Friuli Venezia Giulia, Apulia i Emilia-Romagna, Sveučilište u Bolonji te nevladina organizacija Cetacea Foundation s talijanske strane, dok hrvatske partnere čine Ministarstvo gospodarstva i održivog razvoja, Centar za istraživanje mora Instituta Ruđer Bošković, Sveučilište u Dubrovnik i Regionalna razvojna agencija Dubrovačko-neretvanske županije te Istarska županija – Odjet za održivi razvoj koji ma ulogu pridruženog partnera. Navedeni hrvatski italijanski partneni će zajedno suradivati kako bi definirali projekte strateške važnosti za obje zemlje, među kojima je otpad u moru prepoznat kao jedan od ključnih problema.

IRENA, koja u projektu ima ulogu voditelja projektnih komunikacijskih aktivnosti, će kroz provedbu medijske kampanje i organizaciju raznih regionalnih i prekograničnih događaja usmjeriti na povećanju svijesti o problematici obrada u moru i golemim rizicima koje ono donosi. Također, IRENA će u sklopu projekta raditi edukativnim materijalima, provoditi edukacije i akcije čišćenja s Eko-školama, provoditi akcije za senzibiliziranje turističkog sektora kroz s aktivnim uključivanjem koncesionara plaža u projektne aktivnosti i izraditi sklcu Plana za gospodarenje otpadom u rijekama.

Više informacija na : www.italy-croatia.eu/marless

 MARLESS MARine Litter cross-border awarentESS and innovation actions

 CAPonLITTER - Capitalising good coastal practices and improving policies to prevent marine litter

 CITY MINDED - City Monitoring and integrated Design for Decarbonisation

 COASTENERGY - Blue Energy in ports and coastal urban areas

 Jaint_SECAP - Joint strategies for Climate Change Adaptation in coastal areas

 HAPPEN - Holistic AProach and Platform for the deep renovation of the med residential built Environment

 IDEAL - DEcision support for Adaptation plan

 FIRECE - Innovative Financial Instruments for industry low carbon energy transition in Central Europe

 SUPPORT - Local Governments in Low Carbon Strategies

 ENERJ - Joint Actions for Energy Efficiency

 MAESTRALE

 E-RESPLAN - Innovative Educational coals for Energy Planning

 EHC-Map - Advanced Training on Energy Efficiency in Historic Hertlage IERGEND - Low Enthalpy Geothermal ENergy Demonstration cases for Energy Efficient building in Adriatic area

Figure 7. Example of projects information on institutional website (PP9 – IRENA)



7. Video-tutorials e-learning pills for replication of the actions and good practices

During project duration 7 video-tutorials e-learning pills for replication of the actions and good practices were developed between project partners. All materials are available from <u>project</u> <u>website</u> and <u>MARLESS YouTube channel</u>.

1) LP – ARPA Veneto prepared one video regarding monitoring of sea water quality.

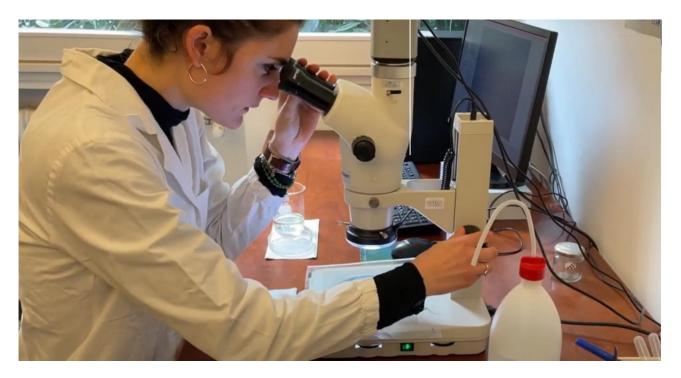


Figure 8. Monitoring of water samples (LP – ARPAV)

2) 3) 4) PP6 – ALMA MATER STUDIORUM –UNIVERSITY OF BOLOGNA in cooperation with PP4 - CETACEA FOUNDATION prepared three Video-tutorials e-learning pills related to WP6 pilot actions; 2)<u>Water drone for microplastic collection</u>, 3) <u>Pyrolysis actions</u> and 4) <u>Fishing for litter action</u>.





Figure 9. Water drone for plastic collection (PP6 – University of Bologna)



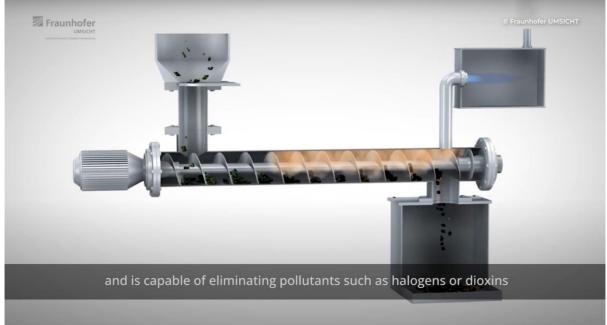


Figure 10. Pyrolysis (PP6 – University of Bologna)

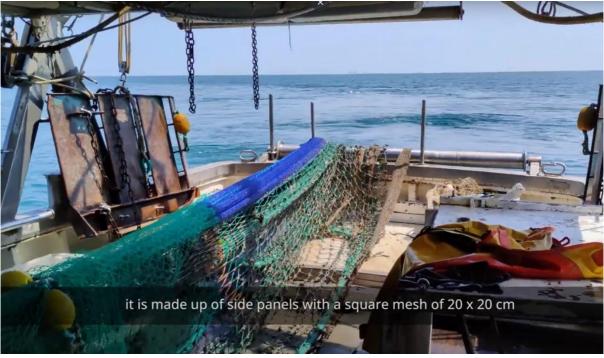


Figure 11. Fishing for litter action (PP4 – CETACEA FOUNDATION)

5) PP5 – UNIVERSITY OF DUBROVNIK prepared Video-tutorials e-learning pill related to their robotic pilot – <u>Collection of surface marine litter using Unmanned Surface Vehicle (USVs)</u>.



The collection of surface marine litter using Unmanned Surface Vehicles (USVs)

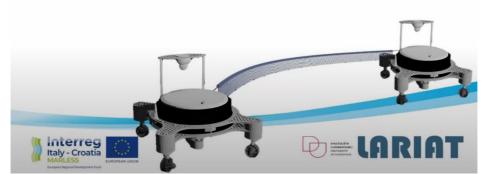


Figure 11. Collection of surface marine litter using Unmanned Surface Vehicle (USVs) (PP5 – University of Dubrovnik)

6) PP2 - AUTONOMOUS REGION FRIULI VENEZIA GIULIA prepared <u>Interactive guide for insiders</u> related to marine litter issue.



Figure 12. Interactive guide for insiders related to marine litter issue. (PP2 - FVG)



7) PP9 IRENA prepared video materials related to <u>info days (WP2)</u>, <u>educational activities</u>, <u>clean up</u> <u>actions (WP4) and underwater clean-up actions and monitoring of marine litter (WP3)</u>.



Figure 13. Video-tutorials e-learning pills – educational activities, clean up actions and monitoring (PP9 – IRENA)

8. Social media communication (Facebook and YouTube)

Social media communication was done through <u>MARLESS Facebook</u> and <u>MARLESS YouTube Chanell</u>. Pages were regularly uploaded with new interesting content; news related to ML, photos and galleries, info from project events, e-pills, interviews, videos, web documents, etc.

Social pages were moderated by PP9 – IRENA with inputs from all other project partners.

	Italy - Cr MARLESS	EUROPEAN UNION	nje	🔳 Q 🕴	⊥ p
		@marlessinterregit-hr	3847 10 pretplatnika 27 videozapisa		
9	Početna	The general objective	of the project is to implement concrete and joint inte	>	
3	Shorts				
Ō	Pretplate	POČETNA STRANICA VIDEOZ	APISI POPISI ZAJEDNICA	KANALI O KANALU Q	
•	Zbirka	Najnovije Popularno			
9	Povijest				
•	Vaši videozapisi				Houses I'
1	Vaši filmovi				
_					
D	Gledat ću kasnije	thes they will be serie to take Trough diver research use in Germany 2:3	Lot go fir 143 kg of martine leases have been collected	1.8 min lenght	
3	Pozitivno ocijenjeni	MARLESS - PYROLYSIS	MARLESS - FISHING FOR LITTER	MARLESS - DRONE	MARLESS - Winner of Veneto Region
		1 pregled • prije 7 sati	1 pregled • prije 7 sati	1 pregled • prije 7 sati	Schools competition (1978)
					59 pregleda • prije 4 dana
			SWOX		
		MARLESS - Region of Puglia - Sensitising the touristic sector	MARLESS - Regional activities - Region of Istria	Discover how project MARLESS is tracking marine litter through satellite monitoring	Druga Eko akcija čišćenja podmorja Rovinj - 03.09.2022.
		18 pregleda · prije 10 dana	14 pregleda · prije 10 dana	67 pregleda • prije 3 mjeseca	34 pregleda · prije 5 mjeseci

Figure 14. MARLESS YouTube Chanell preview