

# NET4mPLASTIC PROJECT

## WP2 – Act. 2.3 Preparation/update of website, e-forum, public events organization and scientific papers publishing

### D 2.3.4

Scientific papers n.1, it will contain intermediate project results, and will be published in open access journals for dissemination

August, 2022 - Version Final

<b>Project Acronym</b>	NET4mPLASTIC
<b>Project ID Number</b>	10046722
<b>Project Title</b>	New Technologies for macro and Microplastic Detection and Analysis in the Adriatic Basin
<b>Priority Axis</b>	3
<b>Specific objective</b>	3.3
<b>Work Package Number</b>	2
<b>Work Package Title</b>	Communication Activities
<b>Activity Number</b>	2.3
<b>Activity Title</b>	Preparation/update of website, e-forum, public events organization and scientific papers publishing
<b>Partner in Charge</b>	PP1 – University of Trieste (UNITS)
<b>Partners involved</b>	LP – University of Ferrara (UNIFE)
<b>Status</b>	Final
<b>Distribution</b>	Public

<b>CONTRIBUTING PARTNERS</b>	UNIFE
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Data	Vers	Prep	Resp	Appr	Rev	Comment
31/12/2019	1.1	UNIFE	UNITS	Elena Zambello	Draft	Comment and approval
30/06/2021	1.2	UNITS	UNITS	Elena Zambello	Draft	Comment and approval
31/12/2021	1.3	UNITS	UNITS	Federica Bettarello	Draft	Comment and approval
31/08/2022	1.4	UNIFE	UNITS	Elisabetta Olivo	Draft	Comment and approval
30/08/2022	1.5	UNIFE	UNITS	Vaccaro Carmela Corinne Corbau Elisabetta Olivo	Final	Comment and approval

## INDEX

1	Introduction .....	4
1	Scientific paper n.1 (open access).....	5
2	Scientific paper n.2 (open access).....	6
3	Scientific paper n.3 .....	7
4	Scientific paper n.4 .....	8
5	ANNEXES .....	9

## 1 Introduction

Main activities related to WP2 during the entire Project have been: 1. Start-up activities, 2. Communication, dissemination and promotion campaign, 3. Website, e-forum, public events organization and scientific papers publishing.

The NET4mPLASTIC Project Application Form provided for the Activity 2.3 the following activities.

This activity consists in creating an informal dialogue environment within partnership as well as with ecofriendly consumers to stimulate the general public, interested in sustainability related issues. This activity consists also in creating an Eforum to stimulate all the public interested in sustainability related issues and to discuss the evolution of project vision. Therefore the project will largely take advantage of INTERREG web platforms. The website will contain the questionnaire for evaluating the communication activities and all the documents realized within NET4mPlastic. This activity also aims at the organization of events and demonstration sessions at different levels concerning plastic and MP issues. A final public event transmitted on streaming will be held in Trieste with the participation of all partners during which final results and future improvements of project's activities will be discussed. At least two scientific papers will be submitted in open access journals.

At the end of the Project, regarding the preparation of website, e-forum, public events organization and scientific papers publishing, the official website has been updated few times, but UniTS encountered several problems with the publication of news and updates, so it was preferable using the social pages of the Project. On the official website is also available the NET4mPLASTIC public questionnaire. Many PPs disseminated the Project news and updates on their official websites, like Marche Region, IZSAM, UNIFE, RERA. Regarding events and demonstration sessions, UniTS organized three webinars in December 2020, and then collected all the presentations abstract for creating videos posted on YouTube Project Channel. An important demonstration event was performed in autumn 2021, within the marine drone campaign at Po Delta and Rijeka and Split. Three newsletters have been prepared during the Project, in collaboration with several PPs. Regarding Scientific papers, UniTS published two papers in 2021 (Marine Pollution Bulletin, Environmental Pollution and Sustainable Materials and Technologies), UNIFE published two papers in 2021 (Environmental Pollution and Drones). LP performed a Special Issue of Microplastics (Microplastics in the Marine Environment), that is currently open, with already 3 accepted papers (one from IZSAM group).

All the 4 target groups programmed to be reached during the Project have been reached and exceeded. Several educational activities have been carried out during the 4-year Project, by UNIFE, UniTS, IZSAM, TIPH. NET4mPLASTIC was presented at several national and international conferences by some PPs, as well as at many online meeting and workshops with other Projects institutions and stakeholders, also collaborating with other Interreg, LIFE, MED Project. After the conferences several abstract and short papers were published by some PPs. As an ultimate communication activity, an in presence and online workshop was organized by UniTS in collaboration with UNIFE during the European Maritime Day in Ravenna in May 2022.

## 1 Scientific paper n.1 (open access)

Acceptance of the paper “A critical review on marine litter in the Adriatic Sea: Focus on plastic pollution” (UNITS staff) for publication on the international journal “Environmental Pollution” as a green open access of Elsevier.

Decision on submission to Environmental Pollution 📎 1 ▾ [

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gio 31/12/2020 15:26  
A: ZAMBELLO ELENA

Manuscript Number: ENVPOL-D-20-03160R3

A critical review on marine litter in the Adriatic Sea: focus on plastic pollution.

Dear Dr Zambello,

Thank you for submitting your manuscript to Environmental Pollution.

I am pleased to inform you that your manuscript has been accepted for publication.

My comments, and any reviewer comments, are below.

Your accepted manuscript will now be transferred to our production department. We will create a proof which you will be asked to check, and you will also be asked to complete a number of online forms required for publication. If we need additional information from you during the production process, we will contact you directly.

We appreciate you submitting your manuscript to Environmental Pollution and hope you will consider us again for future submissions.

Kind regards,

**Eddy** Y. Zeng, Ph.D.  
Editor-in-Chief  
Environmental Pollution

Publication of “A critical review on marine litter in the Adriatic Sea: Focus on plastic pollution” (open access) in Environmental Pollution.

Schmid, C., Cozzarini, L., & Zambello, E. (2021). A critical review on marine litter in the Adriatic Sea: Focus on plastic pollution. Environmental Pollution, 273, 116430.

<https://doi.org/10.1016/j.envpol.2021.116430>

(ANNEX I)

## 2 Scientific paper n.2 (open access)

UNITS published the scientific paper (open access) “Acoustic and thermal characterization of a novel sustainable material incorporating recycled microplastic waste” in the journal Sustainable Materials and Technologies. (ANNEX II)

Caniato, M., Cozzarini, L., Schmid, C., & Gasparella, A. (2021). Acoustic and thermal characterization of a novel sustainable material incorporating recycled microplastic waste. Sustainable Materials and Technologies, 28, e00274.

<https://doi.org/10.1016/j.susmat.2021.e00274>



**ELSEVIER**

**Sustainable Materials and Technologies**

Volume 28, July 2021, e00274



# Acoustic and thermal characterization of a novel sustainable material incorporating recycled microplastic waste

Marco Caniato <sup>a</sup>  , Luca Cozzarini <sup>b</sup>  , Chiara Schmid <sup>b</sup>  , Andrea Gasparella <sup>a</sup>  

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### 3 Scientific paper n.3

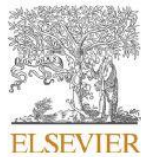
UNITS published the scientific paper (not open access) “Microplastic’s story” in the journal Marine Pollution Bulletin.

Chiara Schmid, Luca Cozzarini, Elena Zambello, Microplastic’s story. Marine Pollution Bulletin Volume 162, (2021), 111820


<https://doi.org/10.1016/j.marpolbul.2020.111820>

Marine Pollution Bulletin 162 (2021) 111820

Contents lists available at [ScienceDirect](#)

 **Marine Pollution Bulletin**

journal homepage: [www.elsevier.com/locate/marpolbul](http://www.elsevier.com/locate/marpolbul)




Review

**Microplastic’s story**

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ARTICLE INFO	ABSTRACT
<p><b>Keywords:</b> Microplastics Chemical characterization Plastic degradation Risk Pollution</p>	<p>The problem of microplastic pollution is now the order of the day in front of everyone’s eyes affecting the environment and the health of leaving creature. This work aims to retrace the history of microplastics in a critical way through a substantial bibliographic collection, defining the points still unresolved and those that can be resolved. Presence of marine litter in different environments is reviewed on a global scale, focusing in particular on micro and macro plastics definition, classification and characterization techniques.</p>



## 4 Scientific paper n.4

Acceptance of the paper “Legislation to limit the environmental plastic and microplastic pollution and their influence on human exposure” (UNIFE staff) in the international peer-reviewed journal “Environmental Pollution” (not open access).

Conti, I., Simioni, C., Varano, G., Brenna, C., Costanzi, E., & Neri, L. M. (2021). Legislation to limit the environmental plastic and microplastic pollution and their influence on human exposure. *Environmental Pollution*, 288, 117708.

<https://doi.org/10.1016/j.envpol.2021.117708>



### Legislation to limit the environmental plastic and microplastic pollution and their influence on human exposure<sup>☆</sup>

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#### ARTICLE INFO

##### Keywords:

Plastic  
Microplastic  
Additives  
Environmental pollutants  
Legislation  
Seafood consumption  
Human health

#### ABSTRACT

Plastic pollution is an emerging problem and is a consequence of the post-consumer plastic waste accumulation in the environment coupled to mismanaged waste programmes. Countries are counteracting the continuous growth of plastic litter with different strategies: introducing bans and limits on both plastic items and materials, promoting plastic recycling and recovery strategies and encouraging voluntary clean up actions, as well as raising public awareness. However, the toxicity of plastics to the environment and organisms is not only related to their polymer chains, but also to the fact that plastic materials contain hazardous additives and can adsorb environmental pollutants (i.e. heavy metals and persistent organic contaminants, respectively). The plastic/additives/pollutants combination may be ingested by marine organisms and then enter in the food chain. Therefore, legislation for additives and contaminants is crucial both to reduce environmental pollution and their toxic effects on organisms, which of course includes humans. In this review, the current policies on plastics and related contaminants are described focusing on current laws. Moreover, recommendations for seafood consumption are suggested, since each fish or mollusc eaten may potentially result in plastic particles, additives or contaminants ingestion.

## 5 ANNEXES

- D.2.3.4 - ANNEX I \_Schmid et al. (2021)
- D.2.3.4 - ANNEX II \_Caniato et al. (2021)