



GA No. 953214



H2020-NMBP-TR-IND-2020-twostage
RIA
GRANT AGREEMENT: 953214

Deliverable No.	D8.6
Deliverable Title	Dissemination activities report – v2
Document ID	D8.6 D88
Dissemination level	Confidential
WP Leader	DIGIOTOUCH
Main Author	Kari Heikkinen
Issue date	31-10-2023



Disclaimer and acknowledgement



This project has received funding from the European Union's H2020 Programme for research, technological development and demonstration under H2020-NMBP-TR-IND-2020-twostage. Grant Agreement 953214 — upPE-T



Disclaimer

The H2020 project has been made possible by a financial contribution by the European Commission under HORIZON 2020.

This document reflects the views of the author(s) and does not necessarily reflect the views or policy of the European Commission. Whilst efforts have been made to ensure the accuracy and completeness of this document, the upPE-T consortium shall not be liable for any errors or omissions, however caused.

Document information

Additional author(s) and contributing partners

Name	Organisation
Angela Gaitani	MoNS

Document Change Log

Version	Date	Comments
v0.1	25.09.2023	First version prepared.
v0.5	30.09.2023	Pre-final draft ready
V0.7	02.10.2023	Draft sent to Coordinator for review
v0.9	26.10.2023	Added October dissemination artefacts
v1.0	30.10.2023	Final draft sent to Coordinator

Document Distribution Log

Version	Date	Distributed to
v0.7	02.10.2023	Coordinator and to peer reviewrs
1.0	30.10.2023	Coordinator

Verification and approval

	Name	Date
Verification Final Draft by WP leader	Soumya Kanti Datta	31.10.2023
Approval Final Deliverable by coordinator	Fuensanta Monzó	31.10.2023

Table of Contents

Disclaimer and acknowledgement	2
Document information	3
Table of Contents	4
Glossary	5
Abbreviations	5
Executive summary	6
1 Introduction	7
2 up-PET Dissemination activities	8
2.1 Alignment with PEDRs.....	8
2.2 Dissemination Activities Canvas status at M36	8
2.3 Deliverable Dissemination artefacts	10
2.4 Non-deliverable Dissemination artefacts	10
2.4.1 Scientific articles and workshop posters.....	11
2.4.2 Webinars and events	23
2.4.3 Class 04 artefacts: Policy Brief and Utilising Horizon Booster	26
3 Clustering activities	27
4 Conclusions	28

Glossary

Result: Any output from the project that cannot be classified as an invention.

Artefact: A tangible output that is used to deliver dissemination activity, e.g., scientific publication, deliverable, software, training material or policy brief.

Abbreviations

GA: Grant Agreement

KPIs: Key Performance Indicators

MOOC: Massive Open Online Course

WP: Work Package

PEDR: Plan of Exploitation and Dissemination of the Results

TBA: To be announced

VR: Virtual reality

Executive summary

This deliverable D8.6 "Dissemination activities report v2" presents a second update on the dissemination activities carried out between months 25 and 36 of execution of the up-PET project. It is aligned with the Dissemination Strategy explained in PEDR and its updates (D8.1, D8.2, and D8.3 respectively).

It lists the dissemination artefacts prepared by up-PET. These artefacts are being classified to i) deliverables, ii) scientific articles in journal and workshop posters, iii) dissemination events such as up-PET webinars, oral presentations in congresses & seminars and other related events and iv) other up-PET dissemination artefacts such as MOOCs, Citizen Awareness Platform, Citizen Awareness Mobile application, and Policy Brief.

1 Introduction

Dissemination is a key for the achievement of the goals under this project to support the impact desired from the project. To this end, the consortium – not only under WP8 but also other work packages – has carried out plans for various dissemination activities (publications, posters, webinars, and works-shop etc.), organising and participating in them that are connected with the topics addressed by the up-PET but also with the topics that are commonly relevant with sister projects.

The reader should be aware that both the *overview of the metrics* (KPIs) for the dissemination activities and *the dissemination plan* for next period M37-M48 are illustrated in the PEDR update deliverable, i.e., **D8.3**.

2 up-PET Dissemination activities

2.1 Alignment with PEDRs

Deliverable D8.1 (PEDR) and its later updates (D8.2 and D8.3) illustrate the strategy for carrying out Dissemination Activities and potential updates to it. Overall strategy and the purpose, with tools, channels, stages etc. are being described there. This deliverable is also linked to a second update to first PEDR and is being delivered at the same time as T8.1 deliverable, and it introduces the plan for the final dissemination activities report, to be delivered at M48.

According to the D8.1, D8.2 and D8.3, dissemination activities have, during M1-M36, gone through both initial stage and targeted stage, and now enter to sustainable stage.

2.2 Dissemination Activities Canvas status at M36

Figure 1 and **2** presents an overview of the status of up-PET dissemination activities. Figure 1 shows the dissemination artefacts until M36 and Figure 2 show the plan for the next period, i.e., M37-M48. The numbering of artefacts is the same as in previous reports. The stickers are color-coded, and e.g., yellow is a color for scientific results, blue is a workshop poster or oral presentation, black is a policy-oriented dissemination artefact, and white is a webinar event.

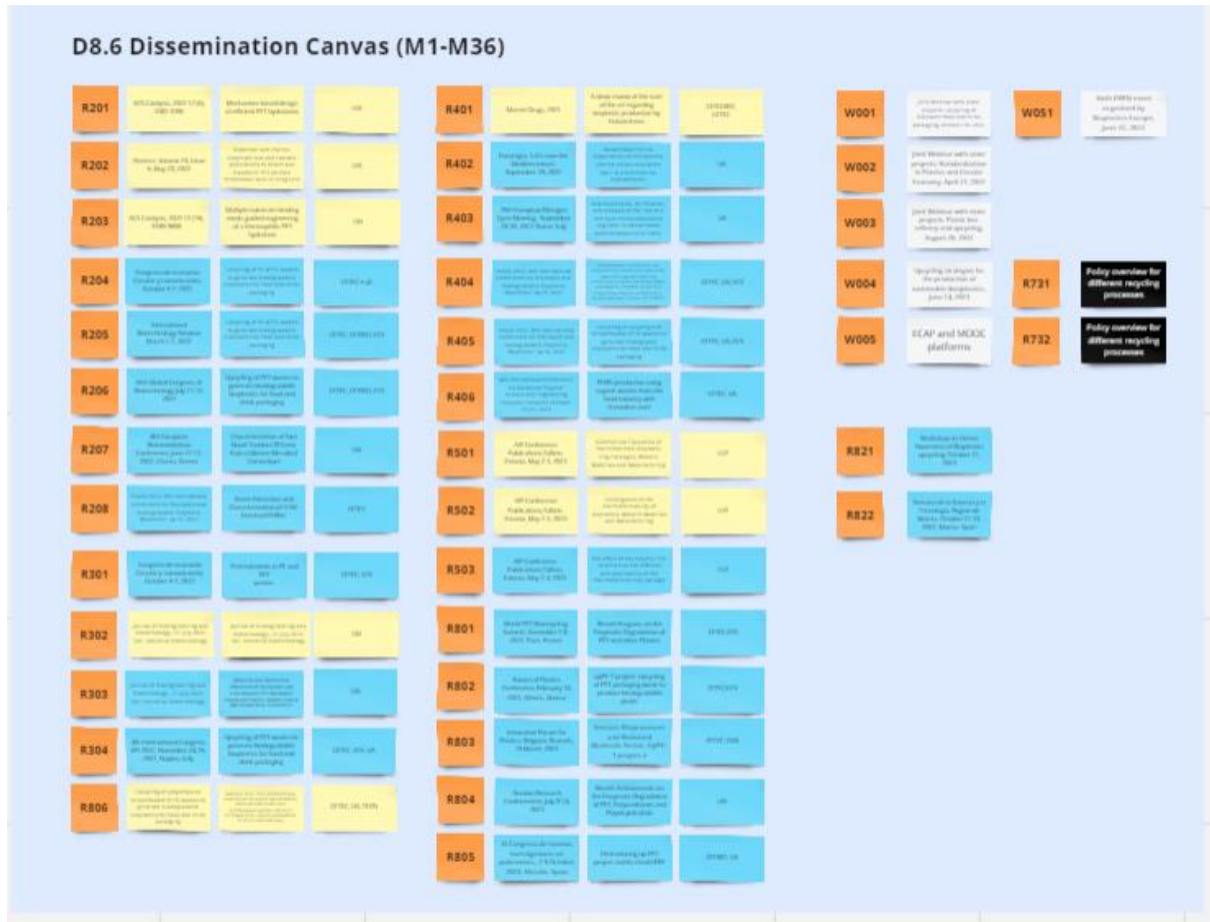


Figure 1a: up-PET dissemination canvas update at M36

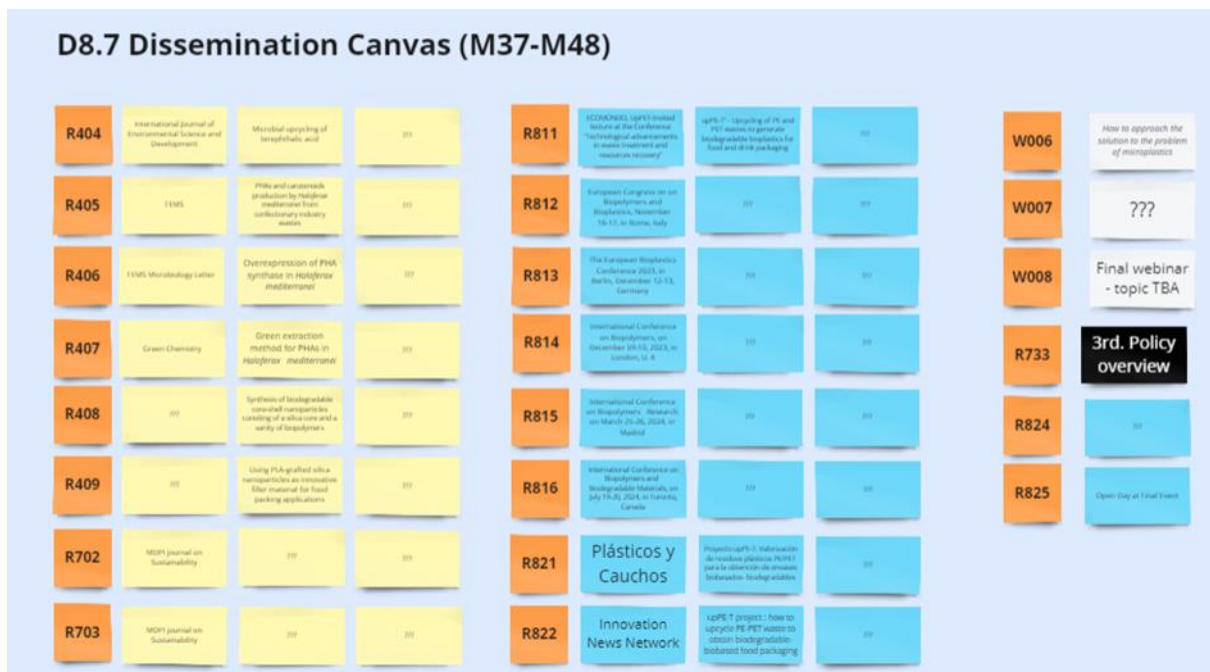


Figure 2: Required dissemination artefacts during M37-M48

2.3 Deliverable Dissemination artefacts

If we also look at the deliverables (**Class 01 in PEDR**) submitted until M36 (see Figure 3 below), the artefacts are also color-coded per their timeline. Deliverables on the left (grey) had been delivered already by the previous dissemination report (D8.5) at M24. The 30 deliverables on the right have been delivered between M25 and M36.



Figure 2: up-PET deliverables until M36 – as artefacts.

2.4 Non-deliverable Dissemination artefacts

In carrying out dissemination activities the following artefacts have been created based on the classifications illustrated in PEDR: **Class 02** was for Scientific Publications, Workshops and Posters, **Class 03** was named as Dissemination Events and foremost is used as events in which networking while disseminating results are listed and **Class 04** was reserved for other kinds of dissemination activities such as training and policymaking.

2.4.1 Scientific articles and workshop posters


The following **thirty-six (36)** dissemination artefacts have been prepared and disseminated either in scientific journals, in workshops or in conference events. In the Figure 4 (*identical to Figure 1 above*) below, sixteen of them have been made between M25 and M36. The non-boxed ones have already been presented in the previous dissemination report submitted at M24. **For this update**, these are the following new dissemination artefacts: **two articles in journals** (R501 and R502), **eight posters or conference articles** (R208, R304, R404-R406, R503, R701 and R806) **and five oral presentations** (R801-R805) in conferences or events. They have been numbered similarly.




Figure 3: up-PET class 02 dissemination artefacts (publications and posters).

The following Table 1 will describe the details of each dissemination artefact in Class 02. The table lists the name of the artefacts, contributors to it, its status and linking to the Work Package, Task and numbered based on what was explained before.

Table 1: Scientific publications, workshops and posters of up-PET.

R501 – work in WP5, task 5.3	'Geometrical Evaluation of Thermoformed Bioplastic Tray Packages' Contributors: LUT	STATUS
DOI: NOT YET AVAILABLE Repository link: Yes Open Science (Y/N): Peer review (Y/N): Joint publication (Y/N):	AIP CONFERENCE PROCEEDINGS from MMM 2023, Modern Materials and Manufacturing, that took place at Tallinn, May 2023 https://pubs.aip.org/aip/acp Online ISSN: 1551-7616, Publisher: AIP Publications Publication Date: expected late 2023	Accepted for publication and presented. 
<p>ABSTRACT:</p> <p>Not available for this deliverable as conference proceedings have not yet been published in the AIP Proceedings.</p>		
R502, work in WP5, Task 5.3	'Investigation of the Thermoformability of Bioplastics.' Contributors: LUT	STATUS
DOI: NOT YET AVAILABLE Repository link: Yes Open Science (Y/N): Peer review (Y/N): Joint publication (Y/N):	AIP CONFERENCE PROCEEDINGS from MMM 2023, Modern Materials and Manufacturing, that took place at Tallinn, May 2023 https://pubs.aip.org/aip/acp Online ISSN: 1551-7616, Publisher: AIP Publications	Accepted for publication and presented.

	<p>Publication Date: expected late 2023</p>	
<p>ABSTRACT: Not available for this deliverable as conference proceedings have not yet been published in the AIP Proceedings.</p>		
<p>R806, work in WP8, Task 8.2</p>	<p>'Upcycling of polyethylene terephthalate (PET) wastes to generate biodegradable bioplastics for food and drink packaging.'</p> <p>Contributors: CETEC, UA, TECN</p>	<p>STATUS</p>
<p>DOI: NOT YET AVAILABLE</p> <p>Repository link: Yes</p> <p>Open Science (Y/N):</p> <p>Peer review (Y/N):</p> <p>Joint publication (Y/N):</p>	<p>SARDINIA 2023: 19th International Symposium on Waste Management, Resource Recovery and Sustainable Landfilling, that took place at Santa Margherita di Pula, Italy., 9-13 October 2023.</p> <p>https://www.sardiniasymposium.it/</p> <p>Publication Date: expected late 2023 at IWWG web site.</p>	<p>Accepted for publication and presented.</p>
<p>ABSTRACT: Not available for this deliverable as conference proceedings have not yet been published at IWWG website.</p>		
<p>R801, Task 8.2</p>	<p>'Recent Progress on the Enzymatic Degradation of PET and other Plastics'</p> <p>Contributors: CETEC, CETBIO, UG</p>	<p>STATUS</p>
<p>Joint poster or presentation (Y/N):</p> <p>Oral presentation</p>	<p>World PET Biorecycling Summit</p> <p>https://www.carbios.com/wp-content/uploads/2022/12/invitees-world-pet-biorecycling-summit-7-8th-december-1.pdf</p>	<p>Presented.</p> 

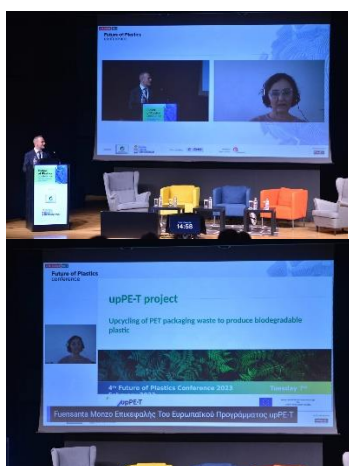
	<p>Presentation Date: December 7-8 2022, Paris, France</p> <p>Attended by 100 Professors, Researchers and Representatives of the industrial world international</p>	
--	---	--

ABSTRACT:

At the World Biorecycling Summit in Paris in December 2022, up-PET results were presented by a keynote lecture that illustrated the current status and challenges with respect to plastic recycling and degradation using enzymatic and biotechnological methods. In the keynote it was especially emphasized the design of improved PET-hydrolyzing enzymes within the Up-PE-T project.

<p>R802, Task 8.2</p>	<p>'upPE-T project: Upcycling of PET packaging waste to produce biodegradable plastic'</p> <p>Contributor: CETEC, ECS</p>	<p>STATUS</p>
------------------------------	--	----------------------

Joint poster or presentation (Y/N):
Oral presentation



Future of Plastics Conference

<https://www.plasticsconference.gr/>

Presentation Date: February 14, 2023

Attended by 163 representatives of the Industry and Policy makers

Presented.



ABSTRACT:

At the Future of Plastics Conference in Athens in February 2023, up-PET results were presented by a presentation that illustrated the current status and achievement of the up-PET project. The presentation contained generic information about up-PET, results from up-PET activities in enzymatic

degradation of PET waste, upcycling TPA to biodegradable plastics, compounding PBHV to material for packaging, and transforming it for industrial validation.

R304, work in WP3	'Upcycling of PET wastes to generate biodegradable bioplastics for food and drink packaging' Contributors: CETEC, ECS	STATUS
Joint poster or presentation (Y/N): 	4th International Congress API 2022, November 24-25, 2022, Naples, Italy www.apicongress.it Presentation Date: November 24, 2022 Attended by 250 Professors, Researchers and Representatives of the industrial world.	Presented. 

ABSTRACT:

Plastic packaging is highly problematic for waste management and the environment; rates of littering and environmental leakage of plastics remain unacceptable. Polyethylene terephthalate (PET) is one of the primary plastics used in food and beverage packaging (~19%)¹. The sustainable management of this waste has become a challenging problem for global society². There is a significant challenge to developing technologies to deal with the upcycling of plastics for food and drink packaging, transforming them into new materials or products of better quality.


Currently there are two ways to recycle plastics, mechanical and chemical recycling. The main problem with mechanical recycling is that it worsens the properties of the plastic. In addition, coloured plastic cannot be recycled for subsequent food use due to the presence of possible contaminants. As a consequence of these limitations, more than 5% to 10% of the separated PE and PET fractions end up in landfills. Regarding chemical recycling, its main limitation is that it requires a lot of energy and reaction time to be effective and achieve the depolymerization of plastics, so only 2% of plastic waste is chemically


recycled³. The European upPE-T project aims to turn plastic food and drink packaging waste into a valuable resource for making PHBV biodegradable bioplastics. To achieve this goal, we are working on developing biocatalytic degradation routes to break down one of the most commonly used packaging plastics, i.e., PET.

R804, Task 8.2	'Recent Progress on the Enzymatic Degradation of PET and other Plastics' Contributors: CETEC, CETBIO, UG	STATUS
Joint poster or presentation (Y/N):	Gordon Research Conference of Plastics recycling and upcycling https://www.grc.org/plastics-recycling-and-upcycling-conference/2023/ Presentation Date: July 10, 2023	Presented. 

ABSTRACT:


At the GRC Plastics Recycling and Upcycling conference (New Hampshire, USA, July 2023) up-PET results were presented by a keynote lecture that illustrated the current status and challenges with respect to plastic recycling and degradation using enzymatic and biotechnological methods. In the keynote it was especially emphasized the design of improved PET-hydrolyzing enzymes achieved in up-PET project. The difference to the keynote in Paris were new results obtained in the project.

R406, work in WP4	'PHBV production using organic wastes from the food industry with <i>H.mediterranei</i> ' Contributors: CETEC, UA	STATUS
DOI: NOT YET AVAILABLE Repository link: Yes Open Science (Y/N): Peer review (Y/N):	APSE Conference Proceedings from 4 th . Advanced Polymer Science and Engineering conference, that took place at Valencia, October 23-25, 2023. https://polymersconference.yuktan.com/index.php	Presented and published. 

Joint publication (Y/N):	ISBN:xxxx-xxxx, Publisher: xxxxx	
<p>ABSTRACT:</p> <p>A considerable number of microorganisms can accumulate intracellularly biopolymers as energy sources under unfavourable conditions. These polymers are biobased and biodegradable, although their costly production is one of their significant disadvantages against conventional polymers, limiting their commercial potential. Nevertheless, these polymers can find a niche in a circular economy system. If organic wastes are fed stock in this process, it can simultaneously reduce biopolymers' production costs while valorising these wastes.</p> <p>One of the most promising biopolymers is polyhydroxyalkanoates (PHA), specifically Poly(3-hydroxybutyrate-co-3-hydroxyvalerate) (PHBV) and Poly(3-hydroxybutyrate) (PHB). Although PHB is synthesized by a considerable number of archaea and bacteria, PHBV is produced by a few microorganisms without employing precursors, one of which is <i>Haloferax mediterranei</i>. In addition, PHBV shows higher flexibility and is less crystalline than PHB. These properties enable the use of PHBV in applications such as biomedical or packaging. <i>Haloferax mediterranei</i> is an extreme halophilic with a highly versatile metabolism, enabling PHBV synthesis from a broad group of substrates under unfavourable conditions such as nutritional restrictions.</p>		
<p>R503, work in WP5, Task 5.3</p>	<p>'The effect of the polymer film selection on the stiffness and applicability of the thermoformed tray package'</p> <p>Contributors: LUT</p>	<p>STATUS</p>
Joint poster (Y/N)	<p>AIP CONFERENCE PROCEEDINGS from MMM 2023, Modern Materials and Manufacturing, that took place at Tallinn, May 2023</p> <p>Publication Date: expected late 2023</p>	<p>Presented.</p> 

ABSTRACT:

Not available for this deliverable as conference proceedings have not yet been published in the AIP Proceedings.



<p>R701, work in WP7, Task 7.3</p>	<p>'Initial Challenges and Approach for Life Cycle Sustainability Assessment in Upcycling of PE and PET'</p> <p>Contributors: DIGI</p>	<p>STATUS</p>
<p>Joint poster or presentation (Y/N):</p> 	<p>Bioplastics Europe Scientific Colloquium of "Bio-based Plastics: Exploring Perspectives, Risks, and Solutions".</p> <p>https://bioplasticseurope.eu/news-events/scientific-colloquium-bio-based-plastics-exploring-perspectives-risks-and-solutions</p> <p>Presentation Date: September 20-21, 2023</p> <p>Attended by 50 researchers, professors and industry representatives</p>	<p>Presented.</p>


ABSTRACT:

The EU H2020 upPE-T project is developing a novel upcycling process for PE and PET to produce terephthalic acid and ethylene glycol for the PHBV production of food and drink packaging. To perform a holistic assessment of sustainability impacts and promote awareness across the bioplastic value chain, upPE-T undertakes Life Cycle Sustainability Assessment (LCSA) of the entire process. However, the assessment is confronted with a plethora of challenges. The entire upcycling process is not yet fully established since some innovative biological processes (e.g., utilisation of new bacteria to produce the PHA) are still being experimented while a few processes have not yet started (e.g., PE enzymatic degradation). Therefore, definitive primary data from upPE-T processes is scarce while lack of prior LCSA literature on plastic upcycling prevents obtaining secondary data. upPE-T's ambition is to demonstrate the novel upcycling process at an industrial scale in a pilot plant. Moreover, while PHBV is currently utilized on an industrial basis for food packaging, in upPE-T, it is obtained from PE, PET degradation in laboratory. Collecting primary data on laboratory scale does not reveal a comprehensive sustainability indicator for an industrial scale process.

Conversely, it is important to employ primary data at a laboratory scale in order to conduct an initial LCSA. Despite the ongoing nature of the various processes, this instrument proves to be valuable not only for obtaining results in terms of impact categories and assessing initial environmental impacts, but also for identifying hotspots and implementing actions to mitigate these impacts, such as the reuse of water throughout the processes. In addition to that, a comprehensive analysis encompassing economic and social evaluations is conducted to obtain a holistic understanding of the expenses associated with the entire process and its potential to enhance societal well-being.

R404, work in WP2	‘Upcycling of polyethylene terephthalate (PET) wastes to generate biodegradable bioplastics for food and drink packaging’ Contributors: CETEC, UA, ECS	STATUS
Joint poster or presentation (Y/N):	<p>Biopol 2022, 8th International Conference on Bio-based and Biodegradable Polymers</p> <p>https://web.csidiomas.ua.es/congresos/biopol/2022/index</p> <p>Presentation Date: November 14-16, 2023</p>	<p>Presented.</p> 
<p>ABSTRACT:</p> <p>Plastic pollution is a severe threat to our environment and plastic waste is an increasing problem in upPE-T project as we revalorize post-consumer polyethylene terephthalate (PET) bottles to transform them into biodegradable bioplastics. First, PET bottles undergo a pretreatment to facilitate subsequent enzymatic degradation in which PET is depolymerized into terephthalic acid (TPA) and ethylene glycol. Then, TPA is used as a feedstock in a biotechnological process that eventually produce polyhydroxyalkanoates or PHAs using halophilic mirco-organism as cell factories for PHA production.</p>		
R405, work in WP2	‘Valorizing confectionary industry waste and plastic packaging for	STATUS


bioplastic production using haloarchaea as cell factories'		
Contributors: CETEC, UA, ECS		
Joint poster or presentation (Y/N):	Biopol 2022, 8th International Conference on Bio-based and Biodegradable Polymers https://web.csidiomas.ua.es/congresos/biopol/2022/index Presentation Date: November 14-16, 2023	Presented. 
<p>ABSTRACT:</p> <p>Replacing petroleum-derived plastics is essential for the development of a green world. In this context, special interest has been paid to haloarchaea due to the capacity of synthesizing biodegradable bioplastics, specially polyhydroxyalkanoates or PHAs. However, the raw materials of the process, such as the carbon and nitrogen source accounts for up to 50% of production costs hampering their upscaling in terms of mid-large-scale production. In this work, we have used confectionary industry waste together with upcycled plastic packaging waste as a source of carbon and nitrogen in a biotechnological process for the production of PHAs using haloarchaea as cell factories. We successfully achieve the production of the copolymer 3.</p>		
R208, work in WP2	'Green Extraction and Characterization of 3-HV-Enriched PHBVs'	STATUS
Contributors: CETEC		
DOI: NOT YET AVAILABLE Repository link: Yes Open Science (Y/N): Peer review (Y/N): Joint publication (Y/N):	Biopol 2022, 8th International Conference on Bio-based and Biodegradable Polymers https://web.csidiomas.ua.es/congresos/biopol/2022/index Presentation Date: November 14-16, 2023	Presented. 

	<p>Attended by 140 researchers from scientific community.</p> <p>Selected papers will be also published in Special Issue "8th International Conference on Bio-Based and Biodegradable Polymers (BIOPOL-2022)"</p>	
<p>ABSTRACT:</p> <p>The replacement of fossil-based polymers (PE, PET, etc.) with bio-based polymers that are also biodegradable, such as polylactic acid (PLA) and polyhydroxyalkanoates (PHAs), is a promising approach to mitigate the environmental issues associated with human activities. CETEC is involved in the biosynthesis of poly(3-hydroxybutyrate-co-3-hydroxyvalerate) (PHBV) with high content in 3-hydroxyvalerate (HV) monomer, which has vast potential as a fossil-based polymers surrogate. Here we report a green extraction methodology for the isolation of HV-enriched PHBV. NMR and CG-MS confirmed the polymer composition, and their thermal (DSC, TGA), mechanical and rheological properties were investigated. Interestingly, the PHBV containing 20% of 3-HV showed a striking increase in the elongation at break compared to previously reported data.</p>		
<p>R803, work in WP8, Task 8.2</p>	<p>'Introducing up-PET project and its results'</p> <p>Contributors: CETEC, DIGI</p>	<p>STATUS</p>
<p>Joint poster or presentation (Y/N):</p> <p>Oral presentation</p> 	<p>Innovation Forum for Plastics, Belgium, Brussels</p> <p>https://theinnovationforum.eu/</p> <p>Presentation Date: March 15, 2023</p> <p>Attended by 65 (Researchers, Industry & Policy makers). Networking of 25 European Projects</p>	<p>Presented.</p>
<p>ABSTRACT:</p>		

up-PET presented, together with other 24 European Projects, with the project outcomes:

Achieved Project outcomes

- ✓ Enzymatic degradation 150 g PET
- ✓ PHBV production 100 litres reactor
- ✓ European citizens awareness platform
- ✓ Citizen awareness VR mobile
- ✓ A Massive Open Online Course (MOOC) for European citizens
- ✓ Citizen behaviour study: Finland case

R805, work in WP8, Task 8.2	'PHBV production using organic waste from the food industry with H. Mediterranei' Contributors: CETBIO	STATUS
<p>Joint poster or presentation (Y/N):</p> <p>Oral presentation</p> 	<p>Congreso de Juvenes Investigadores en Polimeros</p> <p>Presentation Date: October 2-3, 2023 at Alicante. Attended by Salvador García from CETBIO</p> <p>Attended by 72 young researchers.</p>	<p>Presented.</p>



ABSTRACT:

CETEC participated in the XI Congress of young researchers in polymers held in Alicante Spain, where 72 young researchers presented their research. Salvador García Chumillas presented the work carried out by CETEC and the University of Alicante within the upPE-T project, in the production of PHBV biodegradable plastic using organic waste. Waste from the confectionary industry was screened and tested as a carbon source for PHBV production using H.Mediterranei. Furthermore, the PHBV was extracted and purified; the PHBV presence was confirmed with FTIR. After the extraction process, the PHBV properties were characterized; thermal properties with Differential Scanning Calorimetry (DSC) and chemical composition with Nuclear Magnetic Resonance (NMR).

2.4.2 Webinars and events

The following **three (3)** dissemination related events (right hand column in Figure 1a) have taken place during M25-M36. All of them are co-organized webinars with sister projects. Table 2 contains information about the webinars and related dissemination events. This information contains the activity report in relation to the activity.

Table 2: Webinars and events at M24.

Webinar #4		Short description of the dissemination event		
		Upcycling strategies for the production of sustainable (bio)plastics		
WP8, Task 8.2	Type of the activity	Date of the dissemination activity	Number of attendees	Type of attendees:
	Dissemination	14.06.2023	+150 live online Also available at Youtube: https://www.youtube.com/watch?v=rb5qXN21sVE	Industry, Academia
ACTIVITY REPORT:				
<p>Three H2020 projects (from the same call) gave presentations in the June 2023 online joint webinar, in which ENZYMICALS represented up-PET project with a topic "The use of Biotechnology to upcycle Plastic wastes into new Bioplastics". The presentation contained the following up-PET results: • Enzymatic degradation of plastic waste is certainly possible, and there are different ways to upcycle the degradation products (upPE-T uses fermentation-based processes). Bio-based plastics like PHBV offer good properties but remain too expensive but using plastic waste as input may give the required cost advantage. The workshop was attended by 156 people from different sectors. The event was supported by Horizon Booster.</p>				
Webinar #5		Short description of the dissemination event		
		Presentation of ECAP and MOOC platforms		
WP8, Task 8.2	Type of the activity	Date of the dissemination activity	Number of attendees	Type of attendees:
	Dissemination	September 14, 2023	~40 live online	Industry, Academia

--	--	--	--	--

ACTIVITY REPORT:

up-PET WP9 leaders presented the current status of ECAP and MOOC platforms. The presentation outlined the reasons why two platforms were built. Firstly, the platforms are being used to communicate to the citizens in order to make citizens aware and secondly to engage and inform on different levels. ECAP gives awareness and MOOC can provide in-depth training. The webinar also presented in hands-on the operation and what can be found in the platforms.

The workshop was attended by 35 people from different sectors.

Open Day #2		Short description of the dissemination event		
WP8, Task 8.2		CETEC Open Day		
Type of the activity	Date of the dissemination activity	Number of attendees	Type of attendees:	of attendees:
Dissemination	June 7, 2023	150 students	Students and teachers	

ACTIVITY REPORT:

CETEC has shown the work carried out based on biotechnology to obtain biodegradable plastics in the framework of the European projects upPE-T in an easy and accessible way to young people in secondary education and Universities.

On June 7, 2023, from 9:00 am to 2:00 pm, CETEC facilities were visited by groups of student from secondary schools and universities in the Region of Murcia, Around 150 student and teachers participated in this event and saw the works done for the upcycling of waste to produce bio plastics within the projects upPE-T. Students visited our pilot plant and laboratories, and the technical staff explained CETEC's the different activities in relation to the green production of bioplastics and biodegradable plastic blends.



2.4.3 Class 04 artefacts: Policy Brief and Utilising Horizon Booster

The upPE-T partners have delivered a second Policy brief at M36 (see Table 3) and used Horizon Booster for exploitation and business modeling (see D8.3 and D8.8 for more details).

Table 3: Other dissemination artefacts delivered by M36.

Policy Brief		Short description of the dissemination artefact			
		Second Policy Brief			
WP9, Task 9.5	Type of the activity Dissemination	Date of dissemination activity October 30, 2023	Number of policy organisations / people NA	Type of attendees: Consortia, Advisory Board	
EXECUTIVE SUMMARY:					

Deliverable D9.15 is the second of the two policy reviews that are prepared within the upPE-T project. It contains an updated overview of the policy framework at the EU level for the management of post-consumer plastic packaging waste for food and beverages, prepared previously within the deliverable D9.14. The primary aim of these two deliverables is to serve as inputs for the preparation of the policy paper (D9.16) that would contain recommendations for the improvement of the legal and regulatory framework at the EU level.

3 Clustering activities

Clustering in Horizon Europe becomes a critical activity as the importance of multiplying impact across several projects usually funded under the same call, is widely acknowledged.

Multiplying impact of a project by forming or joining a cluster means providing better collaboration and management across associated projects, structured knowledge sharing and benchmarking of project outcomes. This way, the clustered projects can provide technical, organisational and operational support to each other, maximise synergies and complementarities between associated projects and facilitate the achievement of their key impacts.

upPE-T has collaborated with two other **H2020 Research and Innovation projects - UPLIFT and PRESERVE**, focusing on transforming food and drink packaging into new materials or products of better quality or for better environmental value, ensuring that micro-plastics are avoided.

Plastics used in food and drink packaging applications are made from a range of polymers and are highly combined with specific additives to meet each manufacturer's functional and design requirements. This diversity can complicate the recycling process, make it more costly, and affect the quality and value of recycled plastic. Given this, there is a need to develop technological improvements in the sense of better manufacturing and processing practices for these plastic materials to facilitate proper waste management. Developing upcycling technologies will allow sustainable recycling or biological degradation in

accordance with existing and novel technologies, standards, and certification schemes.

The essence of the H2020 sister projects' collaboration is the organization of joint events, webinars and workshops in order to disseminate and showcase the initiatives and solutions for a sustainable management of plastic packaging waste, as well as to develop and initiate networking and clustering activities to this end. The sister projects also contribute to the European Citizens Awareness Platform (ECAP) developed by upPE-T, which aims at raising awareness of the importance of Circular Economy, sorting and recycling practices together with responsible consumption.

Three working groups have been created within this H2020 sister projects' cluster, related to the topics; policy, standardization and citizens' engagement. These working groups are setting up periodic meetings to share information and opinion and to organise specific joint activities.

Another important collaboration with EU projects has been:

- With the Rewind project to jointly apply for the HR booster European service for dissemination, together with the project Preserve. These three projects have also developed a joint video and leaflet, which are outlined on the project's website and are included in the D9.10
- Thanks to upPE-T partner IDI, we have started a collaboration with the GreenLand project, which has led to the first joint activity, the organisation of a webinar about microplastics on 3rd November 2023.
- Thanks to upPE-T partner DIGI, we have enrolled in the ZeroFLW Ecosystem Group and joint activities are being planned for the next year.

4 Conclusions

This deliverable D8.6 "Dissemination activities report v2" presented the dissemination activities carried out and produced dissemination artefacts during the 12 months of execution of the up-PET project, i.e., between M25 and M36.

These artefacts were classified to i) deliverables, ii) scientific articles in journal and workshop posters, iii) dissemination events such as up-PET webinars and other related events and iv) other up-PET dissemination artefacts.

This deliverable will be updated one more time, as the final deliverable will be submitted at M48. Artefacts from previous periods will be inserted to Appendix A for the update.