

CEN Workshop BIOUPTAKE - Technical and ecotoxicological analysis of biobased materials

Workshop description form

- PART A – Workshop Summary
- PART B – Project Plan

PART A – Workshop SUMMARY

1	WS details		
1.1.	Organization	<input checked="" type="checkbox"/> CEN <input type="checkbox"/> CENELEC <input type="checkbox"/> Joint with <input type="checkbox"/> CEN lead <input type="checkbox"/> CENELEC lead	
1.2.	Title	CEN/WS BIOUPTAKE – Technical and ecotoxicological analysis of biobased materials (select CEN or CLC or leave CEN/CLC in case of joint WS)	
1.3.	Scope	This CWA describes a process for the ecotoxicological characterization of bio-based materials.	
1.4.	Does this WS stem from an EU Research project?	<input checked="" type="checkbox"/> YES Name of the project: BioUptake. BIOcomposites in smart plastic transformation processes to pave the way for the large-scale UPTAKE of sustainable bio-based products Grant number: 101057049 End date 31 May 2026 <input type="checkbox"/> NO	
1.5.	Financial support	<input checked="" type="checkbox"/> EU Research project <input type="checkbox"/> EC/EFTA Grant reference: Type here <input type="checkbox"/> Other Specify, if needed: Type here	
1.6.	WS Proposer/Proposed Chair WS proposer	Name: Organization: Postal address: Email: Phone: Webpage: Contact person (name and email):	Isabel Lopes University of Aveiro 3810-193 ilopes@ua.pt +351 234 247 093 https://www.cesam-la.pt/ilopes/ Isabel Lopes; ilopes@ua.pt
1.7.	WS Secretariat	Organization: Postal address: Email: Phone: Webpage: WS Secretary name: Email: Phone:	UNE Génova 6 28004 Madrid. Spain egayo@une.org + 34 686 166 389 www.une.org Elena Gayo egayo@une.org + 34 686 166 389
1.8.	CEN and CENELEC Management Centre (CCMC) contact	Organization: Postal address: Webpage: CCMC Project Manager name: Email: Phone:	CEN and CENELEC Rue de la Science 23B - 1040 Brussels, Belgium https://www.cencenelec.eu/Pages/default.aspx Claire Van Thielen cwa@cencenelec.eu +3225500831 +32478793545
1.9.	Tentative date and place of the Kick-off Meeting	Date: 12th November 2025	Place: On line meeting

1.10.	Does the proposed Workshop fall within the scope of existing CEN and/or CENELEC Technical Bodies? ¹	<input type="checkbox"/> YES Specify: Type here <input checked="" type="checkbox"/> NO																									
1.11.	Are there other Technical Bodies or Joint Advisory and Coordination Groups potentially interested in the Workshop? ²	<input checked="" type="checkbox"/> YES Specify: CEN/TC 411 and CEN/TC 249 <input type="checkbox"/> NO																									
1.12.	Are the following aspects affected?	Safety matters Management system aspects Conformity assessment aspects Security matters	<table border="0"> <tr> <td>YES³</td> <td><input type="checkbox"/></td> <td>NO</td> <td>X</td> </tr> <tr> <td>YES⁴</td> <td><input type="checkbox"/></td> <td>7</td> <td>X</td> </tr> <tr> <td>YES⁵</td> <td><input type="checkbox"/></td> <td>NO</td> <td>X</td> </tr> <tr> <td>YES⁶</td> <td><input type="checkbox"/></td> <td>NO</td> <td>X</td> </tr> <tr> <td></td> <td></td> <td>NO</td> <td></td> </tr> <tr> <td></td> <td></td> <td>8</td> <td></td> </tr> </table>	YES ³	<input type="checkbox"/>	NO	X	YES ⁴	<input type="checkbox"/>	7	X	YES ⁵	<input type="checkbox"/>	NO	X	YES ⁶	<input type="checkbox"/>	NO	X			NO				8	
YES ³	<input type="checkbox"/>	NO	X																								
YES ⁴	<input type="checkbox"/>	7	X																								
YES ⁵	<input type="checkbox"/>	NO	X																								
YES ⁶	<input type="checkbox"/>	NO	X																								
		NO																									
		8																									
		Add information/explanations if Management System aspects and Conformity Assessment aspects are affected: Type here																									
2 WS Deliverables																											
2.1. CWA #1																											
2.1.1	Title	<input checked="" type="checkbox"/> Same as WS title (1.2) <input type="checkbox"/> Other: Type here																									
2.1.2	Scope	This CWA describes a process for the characterization of the freshwater ecotoxicity of bio-based materials. This complementary approach will allow materials and products to be validated in terms of environmental requirements.																									
2.1.3	Does the proposed CWA conflict with a published EN	<input type="checkbox"/> YES Specify: Type here <input checked="" type="checkbox"/> NO In case the answer is 'yes', the development of the CWA shall be stopped																									

¹ Part A and Part B of this form shall be sent by the WS secretary to the secretary of the Technical Bodies identified in this section to inform them about the creation of the WS and register any possible objection within 30 days (45 during the holiday period).

² Part A and Part B of this form should be sent by the WS secretary to the Bodies identified in this section to inform them about the creation of the WS.

³ Work on the proposed CEN and/or CENELEC Workshop shall not be initiated.

⁴ The CEN and/or CENELEC Workshop proposal shall be submitted to the CEN/CENELEC BT(s) for decision.

⁵ CEN-CENELEC Internal Regulations - Part 3, Clause 33 applies.

⁶ For projects dealing with security matters the security risk analysis provided in Annex I shall be carried out.

⁷ See Note 2 in CEN-CENELEC Guide 29, Clause 3.

⁸ See Note 2 in CEN-CENELEC Guide 29, Clause 3.

PART B – Project Plan

Abstract

As part of the broader Green Deal and Circular Economy plans, the European Union's main strategic goal has been focusing on phasing out fossil-based products in packaging, construction, automotive, textile, among other sectors.

In line with the European Union's strategic goal for product sustainability, the main objective of the BioUptake project was to create and implement sustainable bio-based materials to serve as alternatives to current petrochemical-based materials in European industry. In this context, several intermediate products are being developed containing in their final composition materials of biological origin.

This CWA describes the environmental ecotoxicity characterization of the developed bio-based materials. This complementary approach will allow materials and products to be validated in terms of technical and environmental requirements.

The characterization process described in this CWA can be applied to bio-based epoxy resins; bio-based fibbers from wood and carbon materials and bio-based polymers in the form of pellets.

1 Status of the project plan

Draft project plan for public commenting (Version 1.0)

This draft project plan is intended to inform the public of a new Workshop. Any interested party can take part in this Workshop and/or comment on this draft project plan by sending an email to the WS secretary.

All those who have applied for participation or have commented on the project plan by the deadline will be invited to the kick-off meeting of the Workshop on 2025-11-12.

Approved project plan for CWA development adopted at the kick-off meeting of the Workshop on 2025-11-12 (Version No 1).

2 Workshop proposer and potential Workshop participants

Workshop proposer (contact details are provided in Part A of this form)

UNIVERSIDADE DE AVEIRO (PT)

Potential participants

CENTRE SCIENTIFIQUE & TECHNIQUE DEL'INDUSTRIE TEXTILE BELGE ASBL (BE)

FUNDACION AITIIP (ES)

FUNDACION CIDETEC (ES)

SPECIFIC POLYMERS (FR)

ASOCIACION DE INVESTIGACION METALURGICA DEL NOROESTE (ES)

IRIS TECHNOLOGY SOLUTIONS, SOCIEDAD LIMITADA (ES)

SIMCON FRANCE (FR)

PODCOMP AB (SE)

COMFIL APS (DK)

MOSES PRODUCTOS SL (ES)

UNIVERSITY OF LIMERIC (IR)

POLYMERIS (FR)

UNE (ES)

2.1 Workshop proposer

Person (and organization) 1: Isabel Lopes. University of Aveiro

Short description and interest in the subject:

Isabel Lopes is a Principal Researcher at the University of Aveiro, where she conducts research in the fields of ecotoxicology and ecological risk assessment. Her work has included participation in multiple interlaboratory (ring) tests aimed at the development and validation of innovative standard methodologies for the hazard characterization of chemicals, particularly within freshwater ecosystems. Additionally, she has coordinated and contributed to various national and international research projects focused on the assessment of ecotoxicity and environmental safety of chemicals and materials. These efforts encompass the integration of the Safe- and Sustainable-by-Design framework, aligning with emerging paradigms and regulatory strategies established under European Union policies.

Person (and organization) 2: Cátia Venâncio, University of Aveiro

Short description and interest in the subject:

Cátia Venâncio is an assistant researcher, at the University of Aveiro, with more than 10 years of experience in soil and freshwater ecotoxicology and environmental risk assessment. Her interest lies in evaluating the environmental safety, functional performance, and regulatory compliance of biobased materials, particularly their ecotoxicological effects on soil and freshwater ecosystems. She aims to contribute to the development of sustainable bio-based solutions that are both technically effective and environmentally safe, linking ecotoxicology with EU sustainability goals and the Green Deal priorities.

2.2 Potential participants

This CWA will be developed in a Workshop (temporary body) that is open to any interested party. The participation of the following persons/organizations would be helpful and is desired. It is recommended that:

Fibre recycling experts and companies

Chemicals and polymers companies

Industrial process control experts

Biobased materials companies

Final users companies

Research centres experts on fibre recycling

Test laboratories

Experts on environmental and human hazard characterization

take part in the development of this CWA.

3 Workshop objectives and scope

3.1 Workshop background

The Workshop Agreement is a result of the European R&I project Bio-Uptake funded by the European Union under the grant agreement number 101057049.

The general objective of Bio-Uptake project is to ensure a sustainable uptake (increase the use in a 39%) of bioplastic composites through boosting a twin green and digital transformation in the European manufacturing industry. In particular, Bio-Uptake solution will focus scientific and technology efforts on developing flexible manufacturing processes to produce biobased end-products based on the combination of intermediate formats made of natural and/or biobased synthetic fibres reinforced with biopolymers, which are easily adaptable to new market demands.

Biobased materials, due to their intrinsic nature, have demonstrated that they can be adequate candidates with a performance good enough to replace petroleum derivatives' in various application areas.

This CWA describes a process for the characterization of the freshwater ecotoxicity of bio-based materials. This complementary approach will allow materials and products to be validated in terms of environmental requirements for their marketing.

The proposed CWAs will not define requirements related to safety aspects.

4 Workshop programme

4.1 General

The kick-off meeting is planned to take place on 2025-11-12 as virtual meeting. A draft for public commenting will be published for 30 days.

A total of two Workshop meetings (kick-off meeting and Workshop meetings) and web conferences will be held, during which the content of the CWA(s) will be presented, discussed and approved.

The working language (language of meetings, minutes, etc.) of the WS will be English. The CWA will be written in English.

4.2 Workshop schedule

This section should list the specific work items with their deliverable and timeframe for delivery (see Table 1).

Table 1: Workshop schedule (preliminary)

CEN/CENELEC Workshop	M01	M02	M03	M04	M05	M06	M07	M08	M09	M10	M11	M12	...
Initiation													
1. Workshop description form submission and TC response													
2. Open commenting period on draft project plan (mandatory)													
Operation													
3. Kick-off meeting													
4. CWA(s) development													
5. Open commenting period on draft CWA(s) (optional)													
6. CWA(s) finalized and approved by Workshop participants													
Publication													
7. CWA(s) publication													
Dissemination (see 6)													
Milestones			K		V	M					V		P D



Legend

K Kick-off

M Workshop meeting

V Virtual Workshop meeting

A Adoption of CWA

P Publication of CWA

D Online distribution of CWA

5 Resource planning

The proposed CEN workshop will run in the frame of R&I project Bio-Uptake BIOcomposites in smart plastic transformation processes to pave the way for the large-scale UPTAKE of sustainable bio-based products that has received funding from HORIZON Research and Innovation Actions under grant agreement No 101057049.

6 Workshop structure and rules of cooperation

6.1 Participation in the Workshop

The Workshop will be constituted during the kick-off meeting. By approving this project plan, the interested parties declare their willingness to participate in the Workshop and will be formally named as Workshop participants, with the associated rights and duties. Participants at the kick-off meeting who do not approve the project plan are not given the status of a Workshop participant and are thus excluded from further decisions made during the kick-off meeting and from any other decisions regarding the Workshop.

As a rule, the request to participate in the Workshop is closed once it is constituted. The current Workshop participants shall decide whether any additional members will be accepted or not.

Any new participant in the Workshop at a later date is decided on by the participants making up the Workshop at that time. It is particularly important to consider these aspects:

- a. expansion would be conducive to shortening the duration of the Workshop or to avoiding or averting an impending delay in the planned duration of the Workshop;
- b. the expansion would not result in the Workshop taking longer to complete;
- c. the new Workshop participant would not address any new or complementary issues beyond the scope defined and approved in the project plan;
- d. the new Workshop participant would bring complementary expertise into the Workshop in order to incorporate the latest scientific findings and state-of-the-art knowledge;
- e. the new Workshop participant would actively participate in the drafting of the manuscript by submitting concrete, not abstract, proposals and contributions;
- f. the new Workshop participant would ensure wider application of the CWA.

All Workshop participants who approved the publication of the CWA or its draft will be named as authors in the European Foreword, including the organizations which they represent. All Workshop participants who did not approve the publication of the CWA will not be named in the European Foreword.

6.2 Workshop responsibilities

The Workshop Chair is responsible for content management and consensus building. The Workshop Chair is supported by the Workshop Vice-Chair (if any) and the responsible Workshop secretariat, whereby the Workshop secretariat will always remain neutral regarding the content of the CWA(s). Furthermore, the Workshop secretariat shall ensure that CEN-CENELEC's rules of procedure, rules of presentation, and the principles governing the publication of CWA(s) have been observed. Should a Workshop Chair no longer be able to carry

out her/his duties, the Workshop secretariat shall initiate the election of a new Workshop Chair. The list below covers the main tasks of the Workshop Chair. It is not intended to be exhaustive.

- Content related contact point for the Workshop
- Presides at Workshop meetings
- Ensures that the development of the CWA respects the principles and content of the adopted project plan
- Manages the consensus building process, assesses when the Workshop participants have reached agreement on the final CWA, on the basis of the comments received
- Ensures due information exchange with the Workshop secretariat
- Represents the Workshop and its results to exterior

The Workshop secretariat, provided by a CEN and/or CENELEC Member, is responsible for organizing and leading the kick-off meeting, in consultation with the Workshop proposer. Further Workshop meetings and/or web conferences shall be organized by the Workshop secretariat in consultation with the Workshop Chair. The list below covers the main tasks of the Workshop secretariat. It is not intended to be exhaustive.

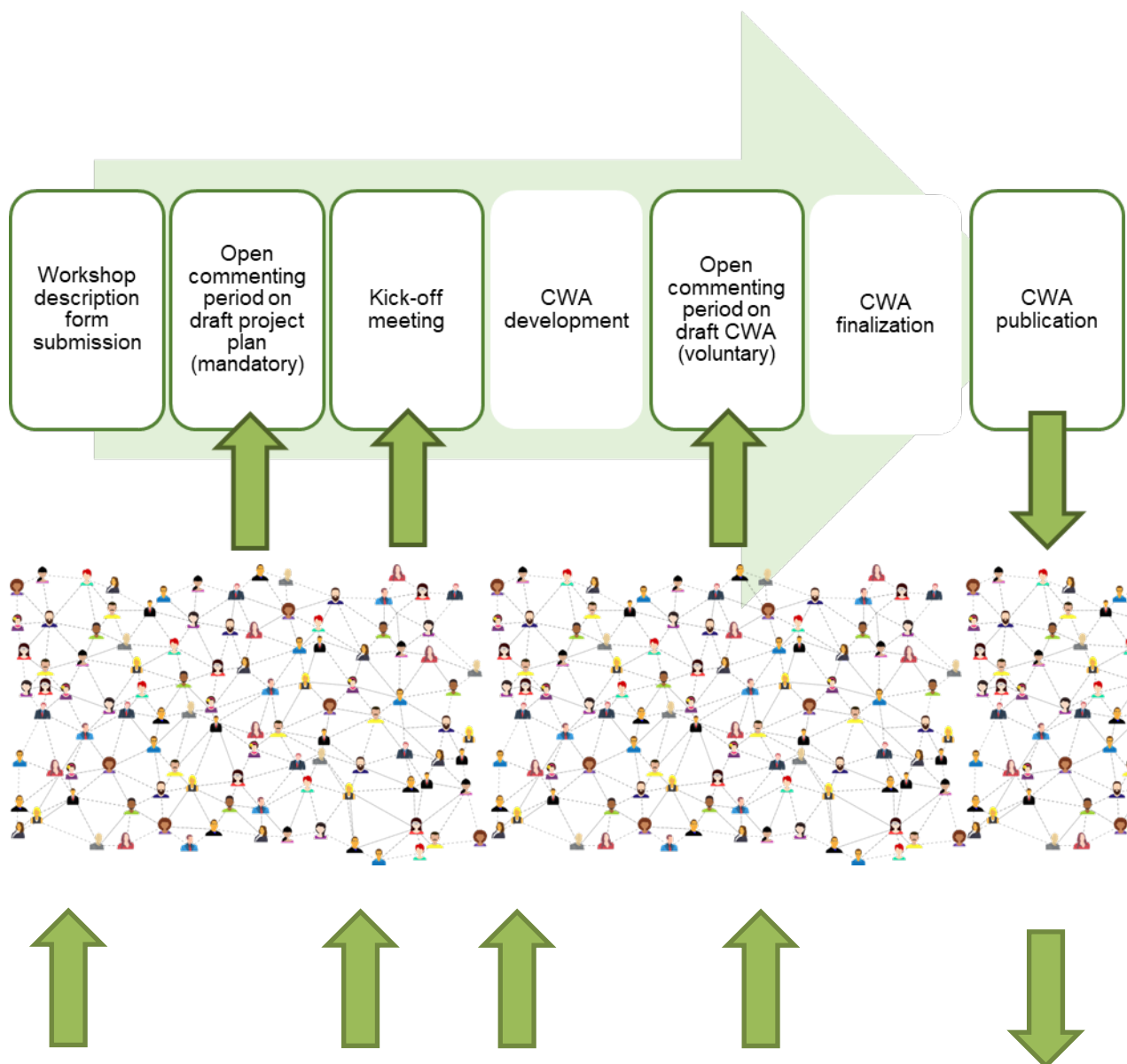
- Administrative and organizational contact point for the Workshop
- Ensures that the development of the CWA respects the principles and content of the adopted project plan and of the requirements of the CEN-CENELEC Guide 29
- Formally registers Workshop participants and maintains record of participating organizations and individuals
- Offers infrastructure and manages documents and their distribution through an electronic platform
- Prepares agenda and distributes information on meetings and meeting minutes as well as follow-up actions of the Workshop
- Initiates and manages CWA approval process upon decision by the Workshop Chair
- Interfaces with CEN-CENELEC Management Centre (CCMC) and Workshop Chair regarding strategic directions, problems arising, and external relationships
- Advises on CEN-CENELEC rules and brings any major problems encountered (if any) in the development of the CWA to the attention of CEN-CENELEC Management Centre (CCMC)
- Administrates the connection with relevant CEN or CENELEC/TCs

6.3 Decision making process

The CEN and/or CENELEC Workshop Chair is responsible for ensuring that the development of the CWA follows the principles and content of the project plan described in this document and the requirements of CEN-CENELEC Guide 29. The CEN and/or CENELEC Workshop Chair may take decisions on the conduct of the CEN and/or CENELEC Workshop on the basis of the comments expressed by the participants and of CEN-CENELEC Guide 29.

Decisions shall be taken based on consensus of the WS participants.

7 Dissemination and participation strategy



Potential participants identified in section 2.2 and potential interested stakeholders identified in Part A should be informed of the open commenting phase, if any, and of the publication of the CWA.

In addition to the CCMC website, the final CWA might be advertised on:

- sector specific newsletter
- social media, such as
 - Facebook
 - Instagram
 - LinkedIn
 - X
- Research Gate
- EC Newsroom
- Others