CEN and/or CLC Workshop BIOUPTAKE- Development of reinforced fibres based on recycled materials

Workshop description form

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

PART A – Workshop SUMMARY

1	WS details		
1.1.	**Organization**	X CEN ☐ CENELEC ☐ Joint with ☐ CEN lead ☐ CENELEC lead	
1.2.	**Title**	CEN/WS BIOUPTAKE- Development of reinforced fibres based on recycled materials (select CEN or CLC or leave CEN/CLC in case of joint WS)	
1.3.	**Scope**	This document defines an extrusion process for manufacturing reinforced fibres based on recycled materials	
1.4.	**Does this WS stem from an EU Research project?**	X 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 ☐ NO	
1.5.	**Financial support**	X EU Research project ☐ EC/EFTA Grant reference: Type here ☐ 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):	Robbe De Bisschop & Ruben Geerinck Centexbel Etienne Sabbelaan 49, 8500 Kortrijk, Belgium rdi@centexbel.be & rg@centexbel.be +32 56 29 27 00 https://www.centexbel.be/nlType here
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: 2025-07-01	Place: Online meeting

1.10.	**Does the proposed Workshop fall within the scope of existing CEN and/or CENELEC Technical Bodies?[1]**	☐ X	YES Specify: Type here NO		
1.11.	**Are there other Technical Bodies or Joint Advisory and Coordination Groups potentially interested in the Workshop? ?[2]**	X ☐	YES Specify: CEN/TC 249-Plastic, CEN/TC 411-Biobased materials NO		
1.12.	**Are the following aspects affected?**	Safety matters Management system aspects Conformity assessment aspects Security matters	YES[3] ☐ YES[4] ☐ YES[5] ☐ YES[6] ☐	NO X [7] X NO X 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** BIOUPTAKE- Development of reinforced fibres based on recycled materials				
2.1.1	**Title**	X ☐	Same as WS title (1.2) Other: Type here		
2.1.2	**Scope**		Type here		
2.1.3	**Does the proposed CWA conflict with a published EN**	☐ X	YES Specify: Type here 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

The BioUptake project is working on the development of self-reinforced polymer composites (SRPC). These SRPCs, also known as single-phase or homo-composites, utilize the same type of polymer (or polymer family) for both the reinforcing fibres and the matrix phase. This approach, using highly drawn polymer fibres to reinforce the matrix, enhances material properties by reducing weight, increasing impact resistance, and facilitating recycling.

The future CWApresents filament extrusion processes optimized to achieve the necessary properties for each filament based on their intended applications.

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 2025-07-01.

Approved project plan for CWA development adopted at the kick-off meeting of the Workshop on 2025-07-01 (Version N1.)

2 Workshop proposer and potential Workshop participants

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

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

Potential participants

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)

UNIVERSIDADE DE AVEIRO (PT)

UNIVERSITY OF LIMERIC (IR)

POLYMERIS (FR)

UNE (ES)

2.1 Workshop proposer

Robbe De Bisschop (CENTEXBEL)

MSc Robbe De Bisschop has a master degree in Engineering Technology Chemistry. He is working as a research scientist at Centexbel, the Belgian Textile Research Centre) where he is responsible for several European and private research projects in the field of extrusion of themoplastic polymers. These projects are geared towards polymer characterization, bioadditivation, processing of (bio)polymers and polymer recycling with an emphasis on improving their performance and processability in plastic and textile applications.

Ruben Geerinck (CENTEXBEL)

MSc Ruben Geerinck has a masters degree in textile engineering. He is working as a research scientist at Centexbel (Belgian Textile Research Centre) where he is responsible for several European and private research projects in the field of extrusion of thermoplastic polymers. His work mainly focuses on formulation, bioadditives development and processing of biopolymers, to improve processability, polymer properties and (home) compostability. Futhermore he is active in research towards recycling different waste stream into various textile applications

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

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 by39%) of bioplastic composites and therefore boosting a twin green and digital transformation in the European manufacturing industry. In particular, the 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 derivates´ in various application areas. However, due to differences in physical and thermochemical properties, a direct replacement of the current material with newly developed biobased is often a mistake. To reach the full potential of biobased materials, product eco-design is essential (part drawing, materials to be used, processability, end-of-life etc.).

This CEN Workshop Agreement defines the process for filament extrusion optimized to achieve the necessary properties for each filament based on their intended applications.

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

4 Workshop programme

4.1 General

The kick-off meeting is planned to take place on 2025-07-01 as a virtual meeting. A draft for public commenting will be published for 30 days.

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

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		A	P D	

Legend

K	Kick-off	**A**	Adoption of CWA
M	Workshop meeting	**P**	Publication of CWA
V	Virtual Workshop meeting	**D**	Online distribution of CWA

5 Resource planning

The proposed CEN/CENELEC workshop will run in the frame of the 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.

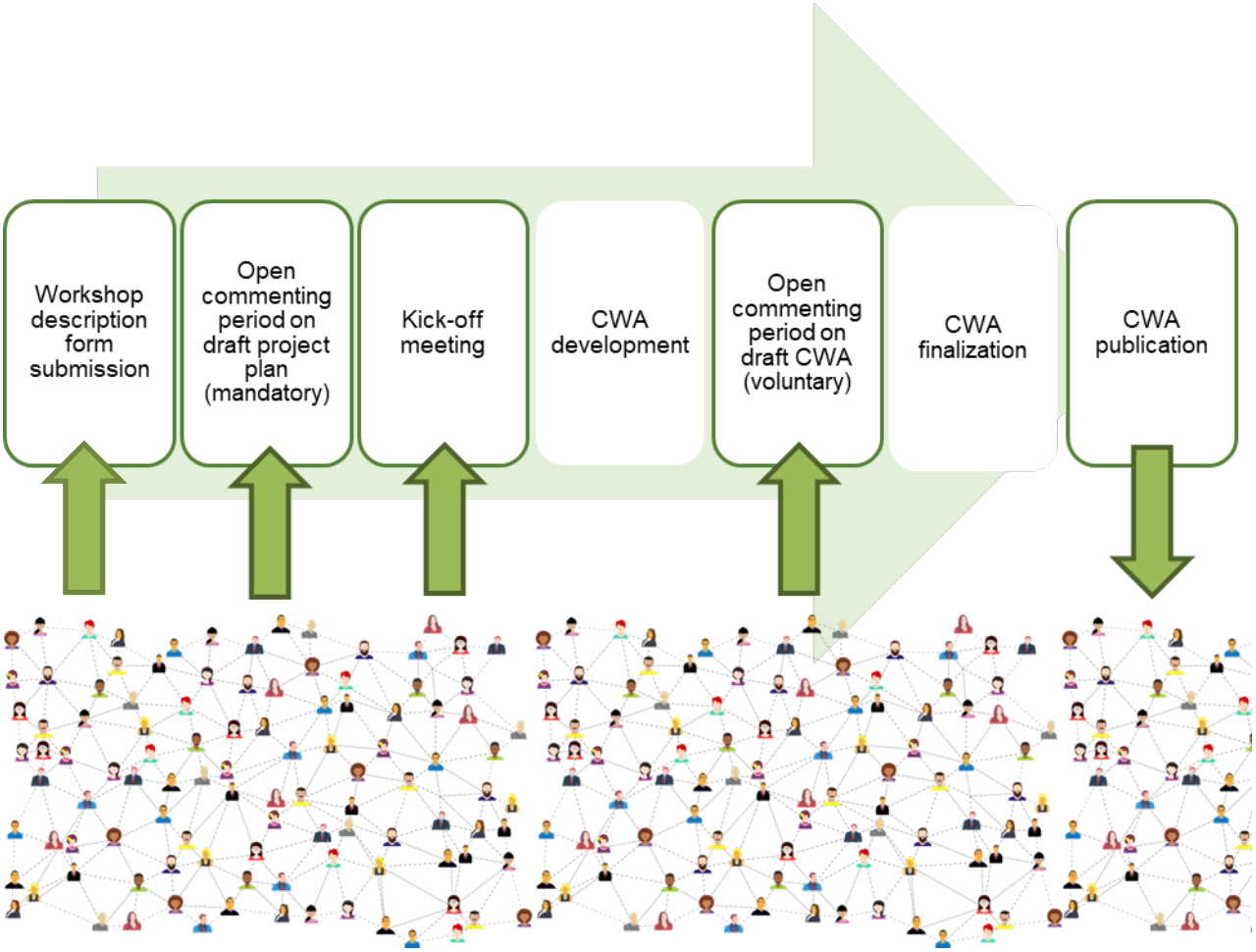
- Administrative and organizational contact point for the Workshop
- Ensures that the development of the CWA respects the principles and content of the adopted project plan and of the requirements of the CEN-CENELEC Guide 29
- Formally registers Workshop participants and maintains record of participating 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

Annex I – Security risk analysis

This annex shall be completed if section 1.12 of Part A indicates that security aspects are addressed by the Workshop.

I.I General

Security risk analysis is a process of identifying and analyzing the main negative factors that may affect a standardization project's objectives. The following is targeted at secretariats of CEN and/or CENELEC Workshop Agreements (CWA) dealing with security issues. Its purpose is to help them identify and mitigate the risks associated with their project. It is structured around two main security threats that can affect the success of the work: major diverging interests among stakeholders and sensitive information.

I.II Risk analysis on major diverging interest among stakeholders

Diverging interests among stakeholders can impede the process in reaching agreement on the CWA and even lead to failure to deliver the planned CWA. In order to identify and possibly mitigate the risks, the following questions should be reviewed:

– Is the planned CWA expected to have a major impact on the security policy/strategy of the core stakeholders?

– Does the scope of the CWA cover products or services with a clear dual-use purpose (i.e. which can be used for military purposes)?

I.III Risk analysis on sensitive information

– In light of the scope of the CWA, is it likely that it may deal with sensitive information? If so, what is the information sensitivity level?

– Is there a need for a (non-)disclosure agreement?

– Is there any conflict of interest for stakeholders involved in the CEN and/or CENELEC Workshop, regarding especially the use they may make of any information they receive during the development of the CWA?

– What steps should be taken to manage information dissemination and storage (e.g. memory stick, emailing, storage) during the development process of the CWA?

The proposed CWA does not have any security implications.