

Biospace

WP7: Technical, Business, and Societal Impact Creation

WP Leader: UNI

WP7 status

3rd December 2025, remote

Adriano Ferrara

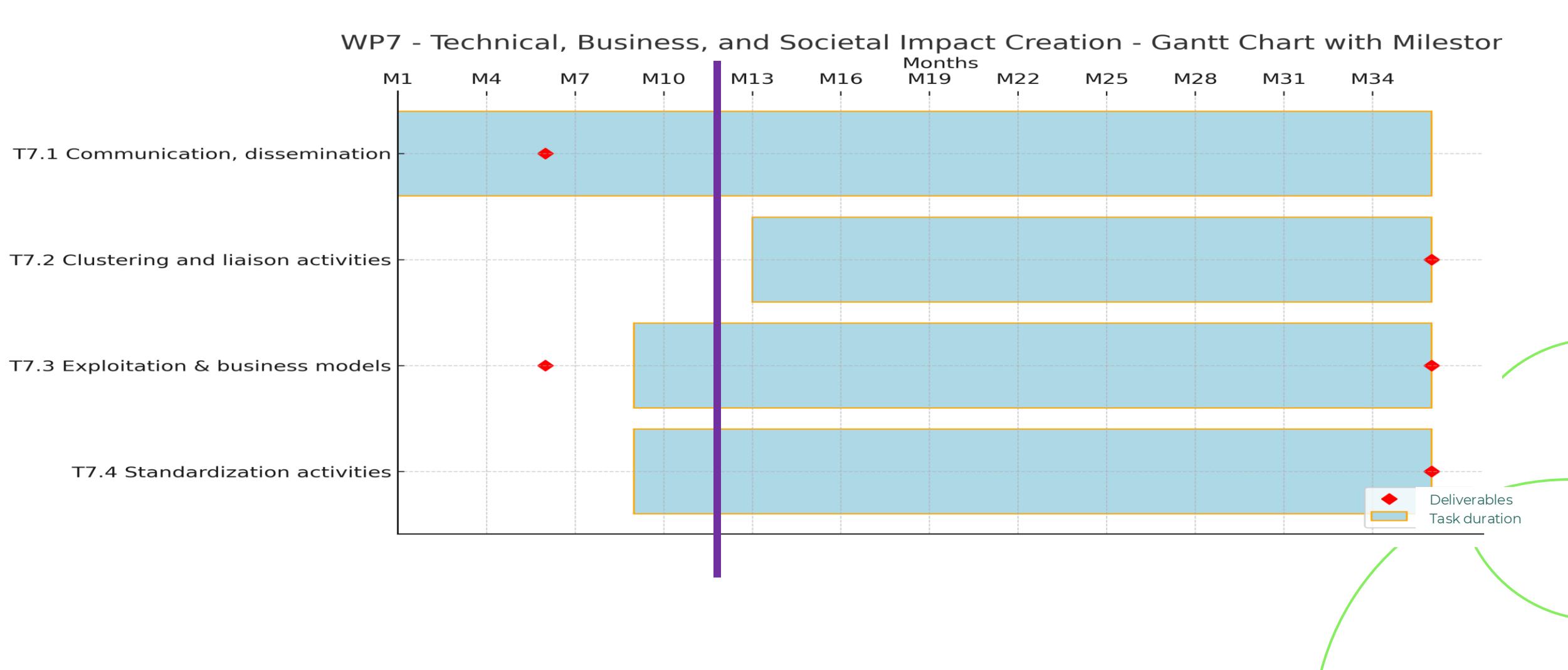
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WP7: Technical, Business, and Societal Impact Creation - Overview

WP Leader: UNI

Task	Task Leader	Task Objective	Deliverables
T7.1 Communication, scientific and industrial dissemination (M1-M36)	NISSA	Communication and dissemination strategy, including events, social media, and publications.	- D7.1 Dissemination and communication strategy (M6) - D7.2 Dissemination and communication report (M36)
T7.2 Clustering and liaison activities (M13-M36)	UNI	Promotion of workshops and networking with other Horizon Europe projects.	- D7.4 Standardization Roadmap and CWA project plan (M36) - D7.5 Policy recommendations for standardization (M36)
T7.3 Exploitation plan (M9-M36)	NISSA	Develop exploitation plans, including intellectual property management.	- D7.3 Exploitation Plan (M36) - D7.6 Exploitation Plan Draft (M6)
T7.4 Standardization activities (M9-M36)	UNI	Mapping EN and ISO standards, development of a CEN Workshop Agreement (CWA).	- D7.4 Standardization Roadmap and CWA project plan (M36) - D7.5 Policy recommendations for standardization (M36)

T7.1 Communication, industrial and scientific dissemination

01

T7.3 Exploitation, transferable business models & industrial strategies and IPR

Dissemination material

- Created
 - RollUp
 - Flyer
 - **Newsletter #1**
- Missing:
 - Pictures
- Ongoing
 - LinkedIn posting

17.2 Visibility — European flag and funding statement

Unless otherwise agreed with the granting authority, communication activities of the beneficiaries related to the action (including media relations, conferences, seminars, information material, such as brochures, leaflets, posters, presentations, etc., in electronic form, via traditional or social media, etc.), dissemination activities and any infrastructure, equipment, vehicles, supplies or major result funded by the grant must acknowledge EU support and display the European flag (emblem) and funding statement (translated into local languages, where appropriate):



Funded by the
European Union



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European Union



Funded by the
European Union



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European Union

The emblem must remain distinct and separate and cannot be modified by adding other visual marks, brands or text.

Apart from the emblem, no other visual identity or logo may be used to highlight the EU support.



Industry 4.0 Enhanced Digital Product Passports and Circular Economy Dataspaces for Sustainable Bio-Based Industries

 **biospace**



PART 3: BIOSPACE STATUS

SUMMARY OF ACTIVITIES CONDUCTED

biOSpaCE project kickoff in Aarhus, Denmark [January 2025]

The kick-off meeting of the biOSpaCE project took place on February 4th and 5th in the beautiful city of Aarhus, Denmark. The kick-off meeting included presentations on the work packages, alignment of expectations, and in-depth discussions that fostered a collaborative environment among the partners.



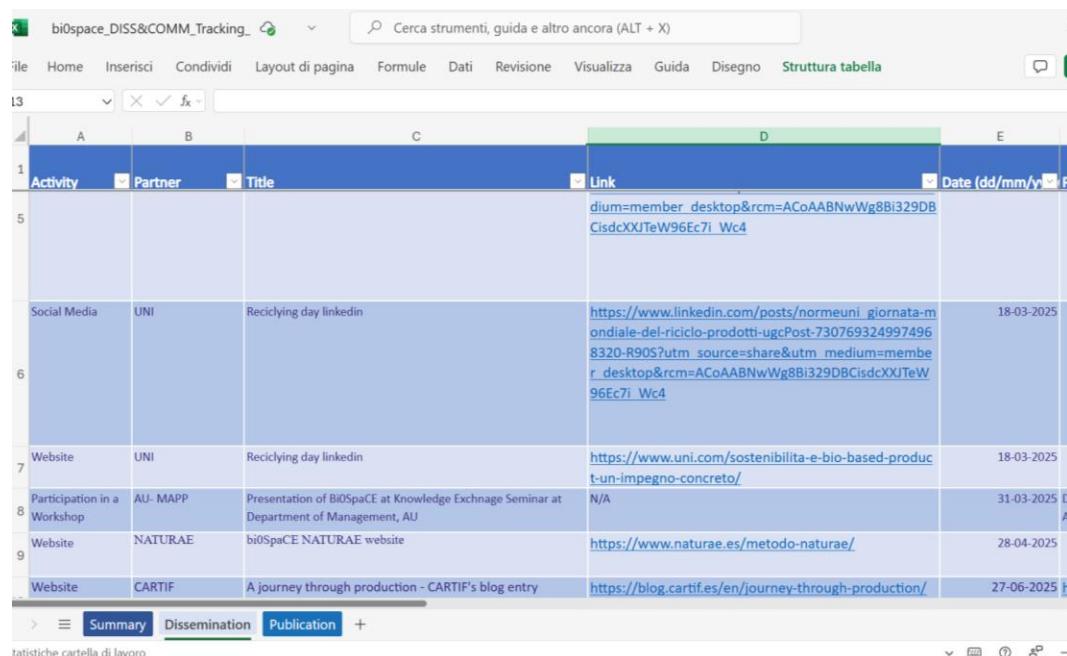
The 1st newsletter is almost finalized!

ECONOMONDO 2025 – Follow up from the trade fair



- Remember to fill the DISSEMINATION tracking & Comm/Comm/Diss template

biospace_DISS&COMM_Tracking_.xlsx



Activity	Partner	Title	Link	Date (dd/mm/yyyy)
Social Media	UNI	Reciclyng day linkedin	https://www.linkedin.com/posts/normeuni_giornata-mondiale-del-riciclo-prodotti-ugcPost-7307693249974968320-R90S?utm_source=share&utm_medium=member_desktop&rcm=ACoAABNwWg8Bi329DBCisdXXJTeWC96Ec7l_Wc4	18-03-2025
Website	UNI	Reciclyng day linkedin	https://www.uni.com/sostenibilita-e-bio-based-product-un-impegno-concreto/	18-03-2025
Participation in a Workshop	AU- MAPP	Presentation of Bi0SpaCE at Knowledge Exchange Seminar at Department of Management, AU	N/A	31-03-2025
Website	NATURAE	bi0SpaCE NATURAE website	https://www.naturae.es/metodo-naturae/	28-04-2025
Website	CARTIF	A journey through production - CARTIF's blog entry	https://blog.cartif.es/en/journey-through-production/	27-06-2025

bi0SpaCE Communication Template.docx
bi0SpaCE Dissemination Template.docx



Communication Info		Description
Partner Information		
Partner Name		<ul style="list-style-type: none"> • Full legal name and acronym of the partner leading the activity
Contact Person		<ul style="list-style-type: none"> • Name of the person responsible for the activity
Email		<ul style="list-style-type: none"> • Contact email of the responsible person
Activity Overview		
Title		<ul style="list-style-type: none"> • Concise title of the communication activity
Type		<ul style="list-style-type: none"> • Specific form or format of the communication content, e.g. LinkedIn post, press release, newsletter, video, event, exhibition, interview, etc.
Channels Used		<ul style="list-style-type: none"> • Platforms or media through which the communication is delivered to the audience e.g. website (official bi0SpaCE website or a dedicated page), social media (platform such as LinkedIn), media articles (e.g. newspapers, magazines or online publications), printed materials (e.g. brochure, leaflet, poster, sticker, banner, etc.)

📌 Registrations on <https://circular-data.org>

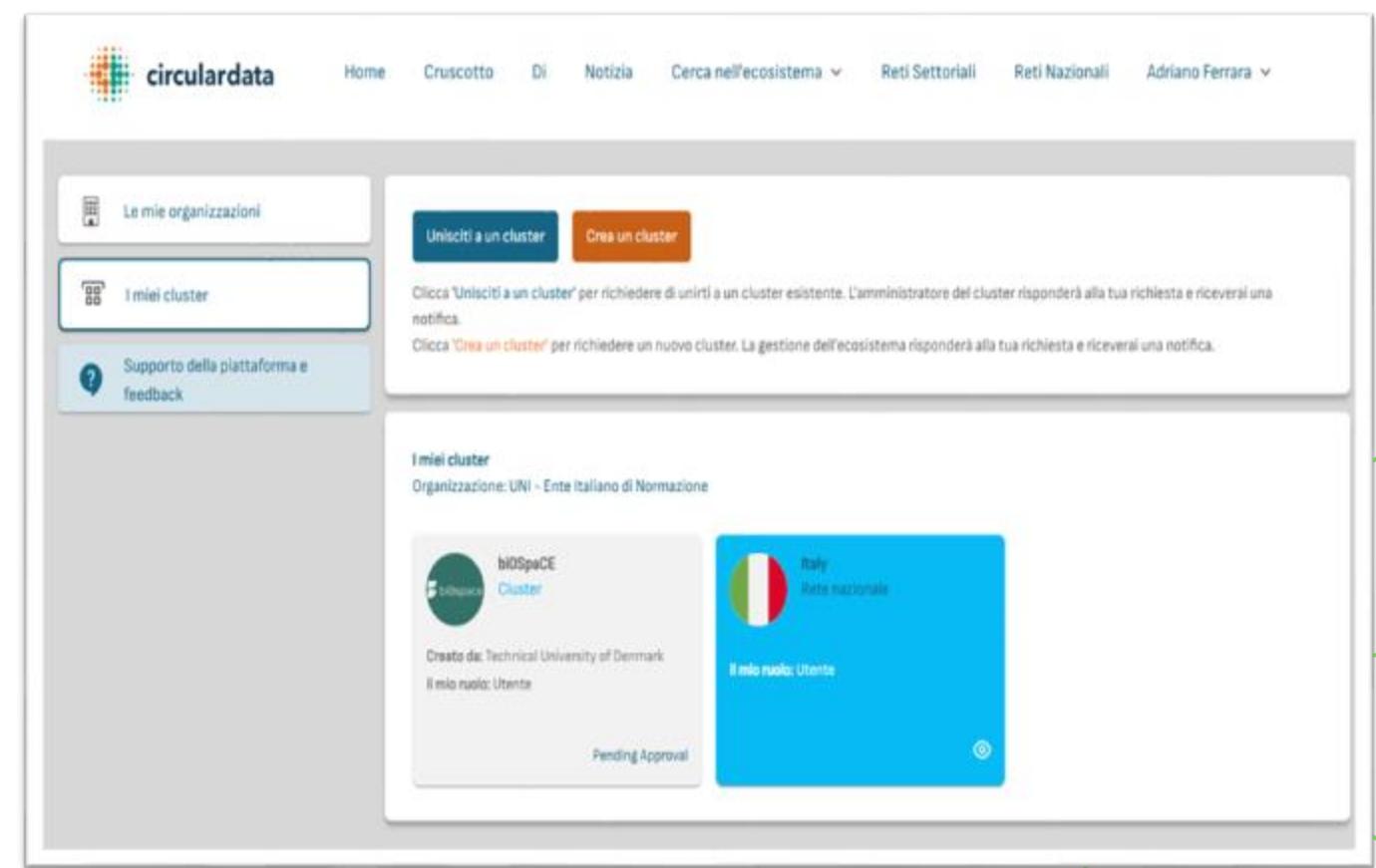
- Dev has registered **DTU** and created the *biospace* cluster.
- Tech partners should start with this activity first, and then all partners can follow the same approach.
- We can post updates and materials here.

📌 Registration Status

- **ARGONAUT** is registered as well.
- You can register as an organization, although it seems that most clusters currently come from EU projects.

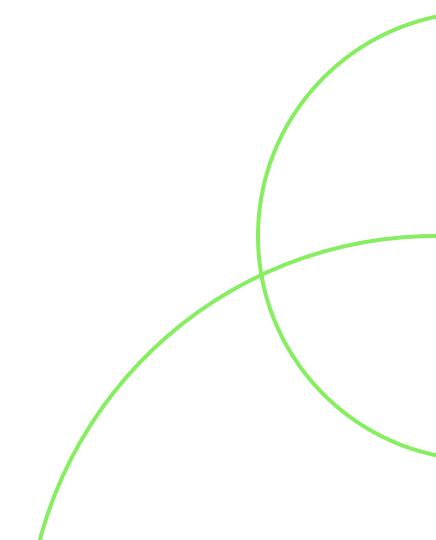
📌 Next Steps

- **Circpass 2** will be present at the GA.
- After the GA, we can follow up on strategies to liaise with them.



Workshop 01: Increasing visibility and impact of biOSpace results

- **Target & Stakeholders:** Who do we want to reach, and why?
- **Key Messages:** What core results and benefits of biOSpace should be highlighted?
- **Workshop Format:** Short presentations + interactive session?
- **Partners' Contribution:** What can each partner bring to boost visibility and impact?
- **Expected Outputs:** What concrete outcomes do we want (actions, stakeholder map, dissemination opportunities)?



01

T7.3: Exploitation, transferable business models & industrial strategies, and IPR (Lead: NISSA, Contribution: ALL) [M9-M36]

Focus: Online survey

bi0SpaCE will systematically **develop its business models** to incentivize the commercialization of its innovations using them as tools to identify industrial strategies favoring bio-based manufacturing.

Key fundamentals for the business plan will be fully substantiated, including a feasibility study, opportunity analyses, licensing potential, ROI projections, etc. PESTEL and SWOT analyses and Osterwalder Business Model canvasses will be used where appropriate.

It will be done:

- with targeted surveys (N total=1,000 across the market regions for the bi0SpaCE EU pilots) – AU responsible (and waiting for the ethical approval, work on the protocol, next week will be shared with NISSA and then with all the partners),
- an assessment of public acceptance of bio-based technologies;
- a confrontation with sectoral domain experts, to understand general beliefs, barriers to market and expedited ways to circumvent these.

The business plan will look at the potential for broader opportunities for commercialization across the project's partners, through systematic interrogation of the various innovation streams. Starting from T6.6 results key exploitable results from pilot implementations will be explored through e.g. stakeholder interviews and focus group discussions, also involving the Advisory Board. T7.3 will support business models enabling results transferability to other sectors and industrial strategies suitable for SMEs. The main bi0SpaCE IPR activities are included in this task: a cautious IPR monitoring will be provided so that CDA, NDA and IPR imperatives for all partners (foreground and background) are fully respected. (Deliverables 7.3, 7.6)

Objectives:

To evaluate public acceptance of bio-based technologies and Digital Product Passports (DPPs).

Methodology:

Online survey ($N = 1,000$) targeting the general public across four market regions where the bi0SpaCE industrial pilots are implemented: **Sweden, Denmark, Spain and Switzerland**.



Completed tasks:

- ✓ Ethical approval: granted by the Research Ethics Committee of AU
- ✓ Study protocol finalized; survey translated into Danish, Swedish, German, French and Spanish
- ✓ Study protocol shared with the task leader. Please send any comments or feedback by Friday, November 7)
- ✓ Recruitment of market research agency: NorstatDK

Ongoing and next tasks:

- GDPR Agreement signature: ongoing (awaiting approval from AU's TTO legal team)
- Data collection by Norstat: expected to begin next week)
- Data analysis and reporting of results: following completion of data collection.

- Exploitable assets to be defined
- Exploitation workshop
 - Plenary meeting, Karlsruhe

Introduction

Task 7.4 aims to support the alignment of the biospace project with standardisation efforts in the fields of Circular Economy (CE), Life Cycle Assessment (LCA), bio-based products and Digital Product Passport (DPP). This will be done by **mapping existing standards and technical committees** at EN and ISO level, **identifying gaps**, and **assessing standardisation needs emerging from project results**. Building on these inputs, the task will also explore the **development of a CEN Workshop Agreement (CWA)** to foster the market uptake of biospace outcomes and maximise their impact.

Leader: UNI

Participants: All partners

Duration: M9 – M36

Deliverables: D7.4, D7.5

D7.4 Standardization Roadmap and CWA project plan [M36 – UNI]

D7.5 Policy recommendations for standardization of DPPs for bio-based products [M36 – UNI]

Main objectives as stated in the Grant Agreement

- Map the most relevant EN and ISO standards for CE, LCA, bio-based products and DPP (ensuring alignment with T6.1).
- Scan CEN and ISO Technical Committees relevant also for T7.2 activities (liaison).
- Collect standardisation needs (liasing with from WP3–4) through surveys, bilateral calls and workshops.
- Guide the development of the CWA Project Plan (PP) and, if approved by CEN, coordinate the CEN/Workshop with the participation of partners with relevant expertise, ensuring compliance with CEN/CENELEC rules.



Standardization Mapping Metodology

1. Mapping of Relevant Technical Committees (TCs)

We will carry out a mapping of Technical Committees (TCs) operating at international (ISO), European (CEN) and national (UNI) levels.

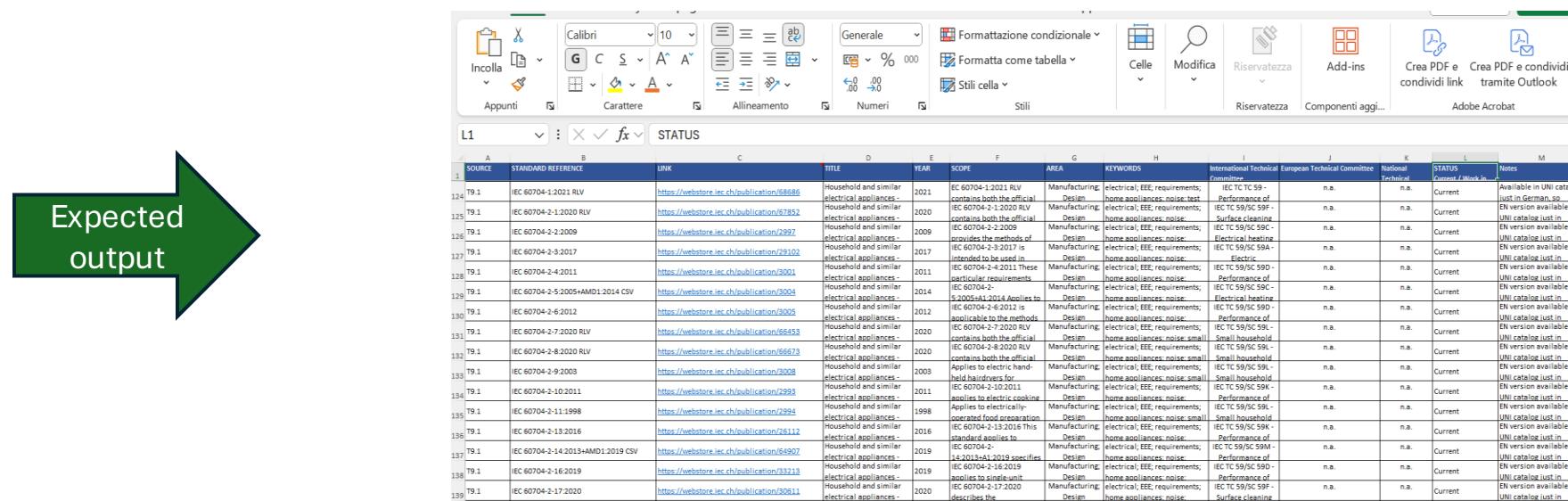
This mapping will cover both vertical and cross-cutting TCs, in order to identify committees potentially relevant to the future development of standardisation documents on bio-based products DPP, CE and LCA. The analysis will also consider possible connections with new work items under study or proposed.

2. Mapping of Existing Standards

In parallel, we will perform a mapping of existing standards (UNI, CEN, ISO) that are:

Related to Circular Economy (CE), Life Cycle Assessment (LCA), bio-based products and Digital Product Passport (DPP) and their enabling concepts

Expected output



	A	B	C	D	E	F	G	H	I	J	K	L	M
1	SOURCE	STANDARD REFERENCE	UNI	TITLE	YEAR	SCOPE	AREA	KEYWORDS	International Technical Committee	European Technical Committee	National Technical Committee	STATUS	Notes
124	T9.1	IEC 60704-1-2021 RLV	https://webstore.iec.ch/publication/66886	Household and similar electrical appliances -	2021	IEC 60704-1-2021 RLV contains both the official	Manufacturing, Design, household and similar electrical appliances, noise, test	electrical; EEE requirements; home appliances; noise; test	IEC/TC 59 -	n.a.	n.a.	Current	Available in UNI catalog (not in German)
125	T9.1	IEC 60704-2-1-2020 RLV	https://webstore.iec.ch/publication/57852	Household and similar electrical appliances -	2020	IEC 60704-2-1-2020 RLV contains both the official	Manufacturing, Design, household and similar electrical appliances, noise	electrical; EEE requirements; home appliances; noise	IEC/TC 59/SC 59F - Surface cleaning	n.a.	n.a.	Current	EN version available in UNI catalog just in
126	T9.1	IEC 60704-2-2-2009	https://webstore.iec.ch/publication/2997	Household and similar electrical appliances -	2009	IEC 60704-2-2-2009 provides the methods of test for household and similar electrical appliances -	Manufacturing, Design, household and similar electrical appliances, noise	electrical; EEE requirements; home appliances; noise	IEC/TC 59/SC 59C - Electrical heating	n.a.	n.a.	Current	EN version available in UNI catalog just in
127	T9.1	IEC 60704-2-3-2017	https://webstore.iec.ch/publication/29102	Household and similar electrical appliances -	2017	IEC 60704-2-3-2017 intended to be used in household and similar electrical appliances -	Manufacturing, Design, household and similar electrical appliances, noise	electrical; EEE requirements; home appliances; noise	IEC/TC 59/SC 59A - Electric	n.a.	n.a.	Current	EN version available in UNI catalog just in
128	T9.1	IEC 60704-2-4-2011	https://webstore.iec.ch/publication/3001	Household and similar electrical appliances -	2011	IEC 60704-2-4-2011 These particular requirements	Manufacturing, Design, household and similar electrical appliances -	electrical; EEE requirements; home appliances; noise	IEC/TC 59/SC 59D - Performance of	n.a.	n.a.	Current	EN version available in UNI catalog just in
129	T9.1	IEC 60704-2-5-2005/AM01:2014 CSV	https://webstore.iec.ch/publication/3000	Household and similar electrical appliances -	2014	IEC 60704-2-5-2005/AM01:2014 Applies to	Manufacturing, Design, household and similar electrical appliances -	electrical; EEE requirements; home appliances; noise	IEC/TC 59/SC 59C -	n.a.	n.a.	Current	EN version available in UNI catalog just in
130	T9.1	IEC 60704-2-6-2012	https://webstore.iec.ch/publication/3005	Household and similar electrical appliances -	2012	IEC 60704-2-6-2012 is applicable to the methods	Manufacturing, Design, household and similar electrical appliances -	electrical; EEE requirements; home appliances; noise	IEC/TC 59/SC 59D - Performance of	n.a.	n.a.	Current	EN version available in UNI catalog just in
131	T9.1	IEC 60704-2-7-2020 RLV	https://webstore.iec.ch/publication/56453	Household and similar electrical appliances -	2020	IEC 60704-2-7-2020 RLV contains both the official	Manufacturing, Design, household and similar electrical appliances -	electrical; EEE requirements; home appliances; noise; small household	IEC/TC 59/SC 59L - Small household	n.a.	n.a.	Current	EN version available in UNI catalog just in
132	T9.1	IEC 60704-2-8-2020 RLV	https://webstore.iec.ch/publication/56673	Household and similar electrical appliances -	2020	IEC 60704-2-8-2020 RLV contains both the official	Manufacturing, Design, household and similar electrical appliances -	electrical; EEE requirements; home appliances; noise; small household	IEC/TC 59/SC 59L - Small household	n.a.	n.a.	Current	EN version available in UNI catalog just in
133	T9.1	IEC 60704-2-9-2003	https://webstore.iec.ch/publication/3008	Household and similar electrical appliances -	2003	Applies to electric hand-held hairdryers for	Manufacturing, Design, household and similar electrical appliances -	electrical; EEE requirements; home appliances; noise; small household	IEC/TC 59/SC 59L - Small household	n.a.	n.a.	Current	EN version available in UNI catalog just in
134	T9.1	IEC 60704-2-10-2011	https://webstore.iec.ch/publication/2993	Household and similar electrical appliances -	2011	IEC 60704-2-10-2011 applies to electric cooking	Manufacturing, Design, household and similar electrical appliances -	electrical; EEE requirements; home appliances; noise	IEC/TC 59/SC 59C - Performance of	n.a.	n.a.	Current	EN version available in UNI catalog just in
135	T9.1	IEC 60704-2-11:1998	https://webstore.iec.ch/publication/2994	Household and similar electrical appliances -	1998	Applies to electrically-operated food preparation	Manufacturing, Design, household and similar electrical appliances -	electrical; EEE requirements; home appliances; noise; small household	IEC/TC 59/SC 59L - Small household	n.a.	n.a.	Current	EN version available in UNI catalog just in
136	T9.1	IEC 60704-2-13-2016	https://webstore.iec.ch/publication/26112	Household and similar electrical appliances -	2016	IEC 60704-2-13-2016 This standard applies to	Manufacturing, Design, household and similar electrical appliances -	electrical; EEE requirements; home appliances; noise	IEC/TC 59/SC 59L - Performance of	n.a.	n.a.	Current	EN version available in UNI catalog just in
137	T9.1	IEC 60704-2-14:2013/AM01:2019 CSV	https://webstore.iec.ch/publication/54907	Household and similar electrical appliances -	2019	IEC 60704-2-14:2013/AM01:2019 specifies	Manufacturing, Design, household and similar electrical appliances -	electrical; EEE requirements; home appliances; noise	IEC/TC 59/SC 59M - Performance of	n.a.	n.a.	Current	EN version available in UNI catalog just in
138	T9.1	IEC 60704-2-16:2019	https://webstore.iec.ch/publication/33213	Household and similar electrical appliances -	2019	IEC 60704-2-16:2019 applies to static-unit	Manufacturing, Design, household and similar electrical appliances -	electrical; EEE requirements; home appliances; noise	IEC/TC 59/SC 59D - Performance of	n.a.	n.a.	Current	EN version available in UNI catalog just in
139	T9.1	IEC 60704-2-17:2020	https://webstore.iec.ch/publication/30611	Household and similar electrical appliances -	2020	IEC 60704-2-17:2020 describes the	Manufacturing, Design, household and similar electrical appliances -	electrical; EEE requirements; home appliances; noise	IEC/TC 59/SC 59F - Surface cleaning	n.a.	n.a.	Current	EN version available in UNI catalog just in
													EN version available in

INFO on:

- Standard reference & title
- Scope
- TCs
- Area
- Status
- Link

T7.4: Standardization activities

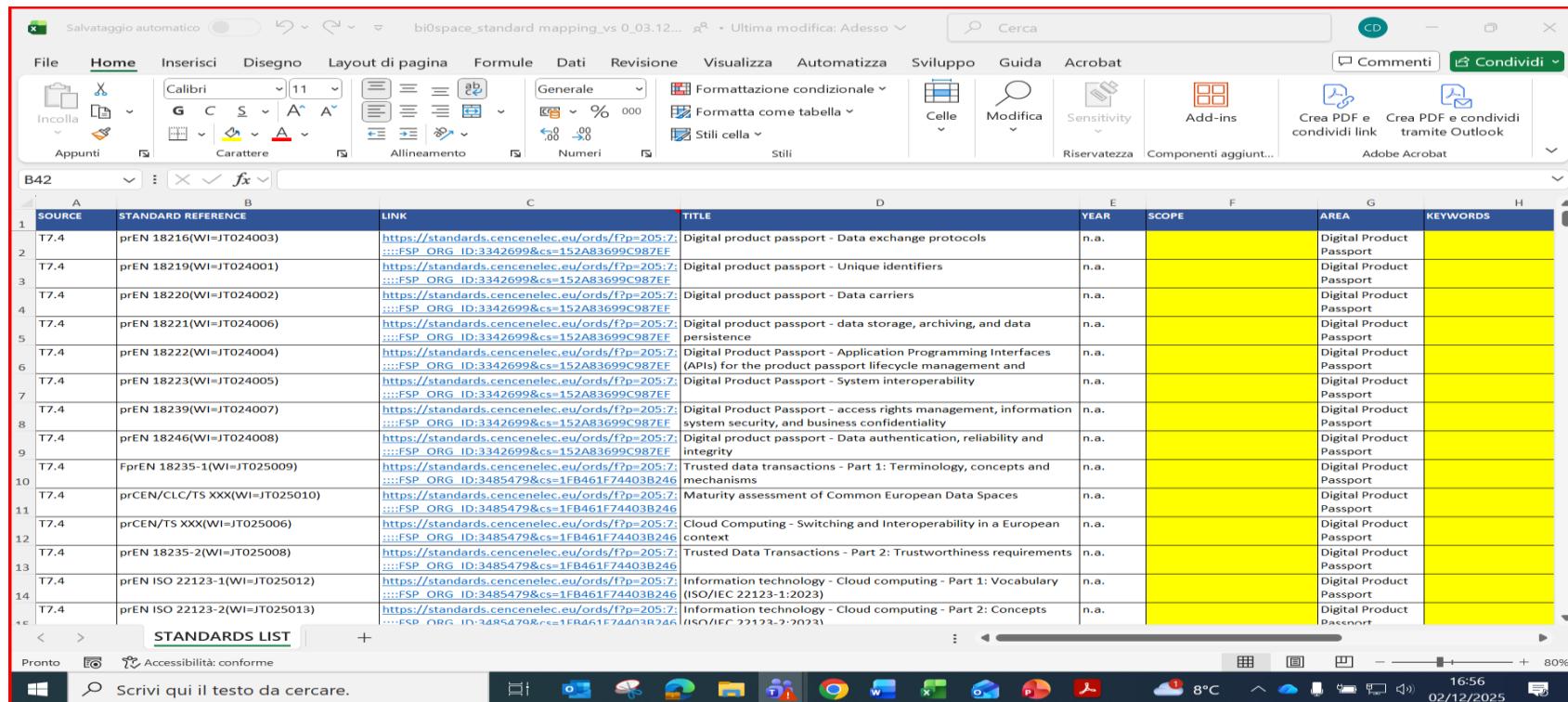
Definition and validation of Inclusion/Exclusion Criteria

- 1. Establish Macro-Level Criteria**
- 2. Define Specific Criteria**



T7.4: Standardization activities

Standards and Regulations Mapping: a first draft



The screenshot shows an Excel spreadsheet titled "biospace_standard mapping vs 0_03.12...". The table structure is as follows:

SOURCE	STANDARD REFERENCE	LINK	TITLE	YEAR	SCOPE	AREA	KEYWORDS
T7.4	prEN 18216(WI=JT024003)	https://standards.cenlec.eu/ords/f?p=205:7:::ESP_ORG_ID:3342699&c=152A83699C987EF	Digital product passport - Data exchange protocols	n.a.		Digital Product Passport	
T7.4	prEN 18219(WI=JT024001)	https://standards.cenlec.eu/ords/f?p=205:7:::ESP_ORG_ID:3342699&c=152A83699C987EF	Digital product passport - Unique identifiers	n.a.		Digital Product Passport	
T7.4	prEN 18220(WI=JT024002)	https://standards.cenlec.eu/ords/f?p=205:7:::ESP_ORG_ID:3342699&c=152A83699C987EF	Digital product passport - Data carriers	n.a.		Digital Product Passport	
T7.4	prEN 18221(WI=JT024006)	https://standards.cenlec.eu/ords/f?p=205:7:::ESP_ORG_ID:3342699&c=152A83699C987EF	Digital product passport - data storage, archiving, and data persistence	n.a.		Digital Product Passport	
T7.4	prEN 18222(WI=JT024004)	https://standards.cenlec.eu/ords/f?p=205:7:::ESP_ORG_ID:3342699&c=152A83699C987EF	Digital Product Passport - Application Programming Interfaces (APIs) for the product passport lifecycle management and	n.a.		Digital Product Passport	
T7.4	prEN 18223(WI=JT024005)	https://standards.cenlec.eu/ords/f?p=205:7:::ESP_ORG_ID:3342699&c=152A83699C987EF	Digital Product Passport - System interoperability	n.a.		Digital Product Passport	
T7.4	prEN 18239(WI=JT024007)	https://standards.cenlec.eu/ords/f?p=205:7:::ESP_ORG_ID:3342699&c=152A83699C987EF	Digital Product Passport - access rights management, information system security, and business confidentiality	n.a.		Digital Product Passport	
T7.4	prEN 18246(WI=JT024008)	https://standards.cenlec.eu/ords/f?p=205:7:::ESP_ORG_ID:3342699&c=152A83699C987EF	Digital product passport - Data authentication, reliability and integrity	n.a.		Digital Product Passport	
T7.4	FprEN 18235-1(WI=JT025009)	https://standards.cenlec.eu/ords/f?p=205:7:::ESP_ORG_ID:3485479&c=1FB461F74403B246	Trusted data transactions - Part 1: Terminology, concepts and mechanisms	n.a.		Digital Product Passport	
T7.4	prCEN/CLC/TS XXX(WI=JT025010)	https://standards.cenlec.eu/ords/f?p=205:7:::ESP_ORG_ID:3485479&c=1FB461F74403B246	Maturity assessment of Common European Data Spaces	n.a.		Digital Product Passport	
T7.4	prCEN/TS XXX(WI=JT025006)	https://standards.cenlec.eu/ords/f?p=205:7:::ESP_ORG_ID:3485479&c=1FB461F74403B246	Cloud Computing - Switching and Interoperability in a European context	n.a.		Digital Product Passport	
T7.4	prEN 18235-2(WI=JT025008)	https://standards.cenlec.eu/ords/f?p=205:7:::ESP_ORG_ID:3485479&c=1FB461F74403B246	Trusted Data Transactions - Part 2: Trustworthiness requirements	n.a.		Digital Product Passport	
T7.4	prEN ISO 22123-1(WI=JT025012)	https://standards.cenlec.eu/ords/f?p=205:7:::ESP_ORG_ID:3485479&c=1FB461F74403B246	Information technology - Cloud computing - Part 1: Vocabulary (ISO/IEC 22123-1:2023)	n.a.		Digital Product Passport	
T7.4	prEN ISO 22123-2(WI=JT025013)	https://standards.cenlec.eu/ords/f?p=205:7:::ESP_ORG_ID:3485479&c=1FB461F74403B246	Information technology - Cloud computing - Part 2: Concepts (ISO/IEC 22123-2:2023)	n.a.		Digital Product Passport	

URL to Excel File



THANK YOU FOR YOUR ATTENTION

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website-url



This project has received funding from the Horizon Europe programme