



# Circular Bio-based Europe Infoday

Welcome!



Utrecht, 9 April 2025  
Rijksdienst voor Ondernemend Nederland



# Agenda

- 14:00 Opening
- 14:05 **National priorities on Circular Biobased**  
Sascha Bollerman, LVVN
- CBE: Background & Relevance**  
Saske Hoving, NCP Cluster 6
- 14:30 **CBE 2025 Opportunities & Key to Success**  
By Dieter Brigitta, CBE JU
- 15:30 Short Break
- 15:40 **CBE Showcase Project**  
By Emad Yaghmaei, Yaghma
- 16:00 **Idea Pitches**
- 16.30 Networking Drinks
- 18:00 End of Program





# National priorities on Circular Bioeconomy

Sascha Bollerman,

Department for Strategy, Knowledge and Innovation  
Ministry of Agriculture, Fisheries, Food Security and Nature

& member State Representative Group





# National priorities on Circular Biobased

*A new biobased raw materials strategy*

Stakeholders Meeting Cluster 6, April 9th 2025

*Sascha Bollerman  
Ministry of Agriculture*



# Bioeconomy strategy (2018)



Ministerie van Economische Zaken  
en Klimaat

## De positie van de bio-economie in Nederland





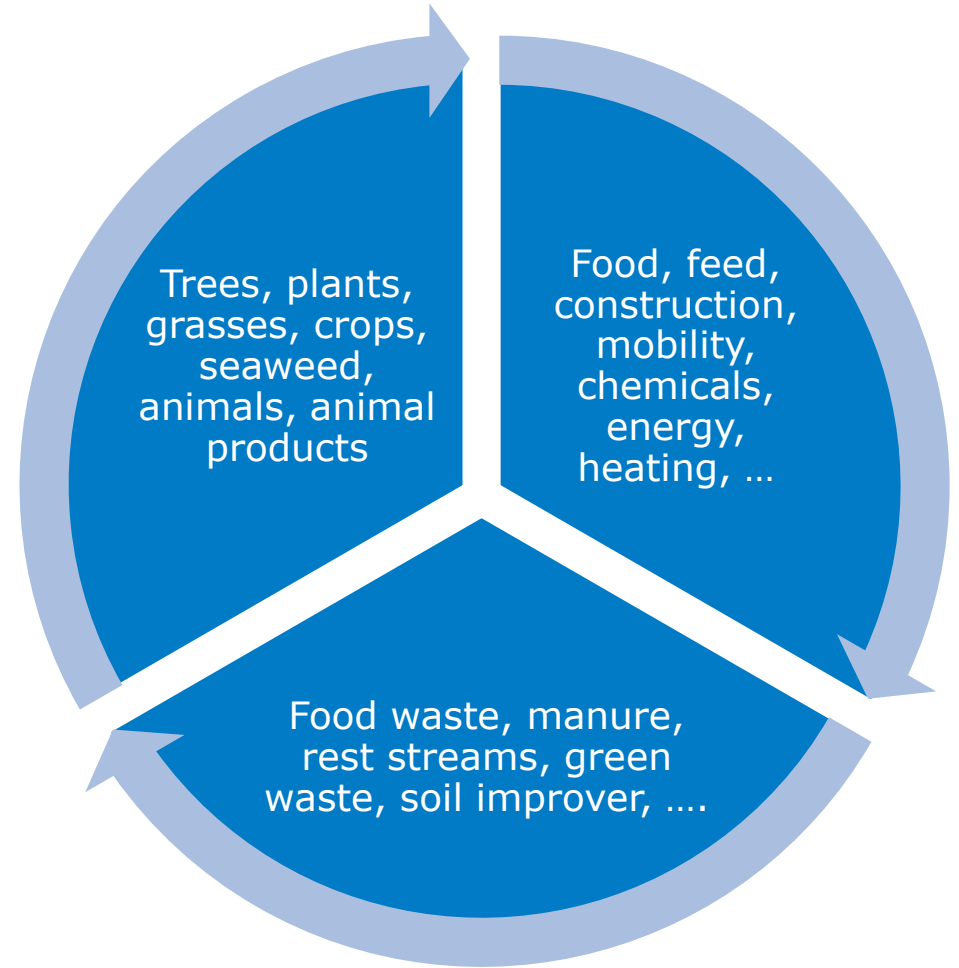
# Motivation

- › A biobased raw materials strategy has been announced in the government program.
- › In 2024, an exploration was carried out within LVVN to develop a biobased raw materials strategy.
- › This led to the decision to create an interdepartmental biobased raw materials strategy, with LVVN (lead), KGG, and I&W jointly responsible.



# Biobased raw materials?

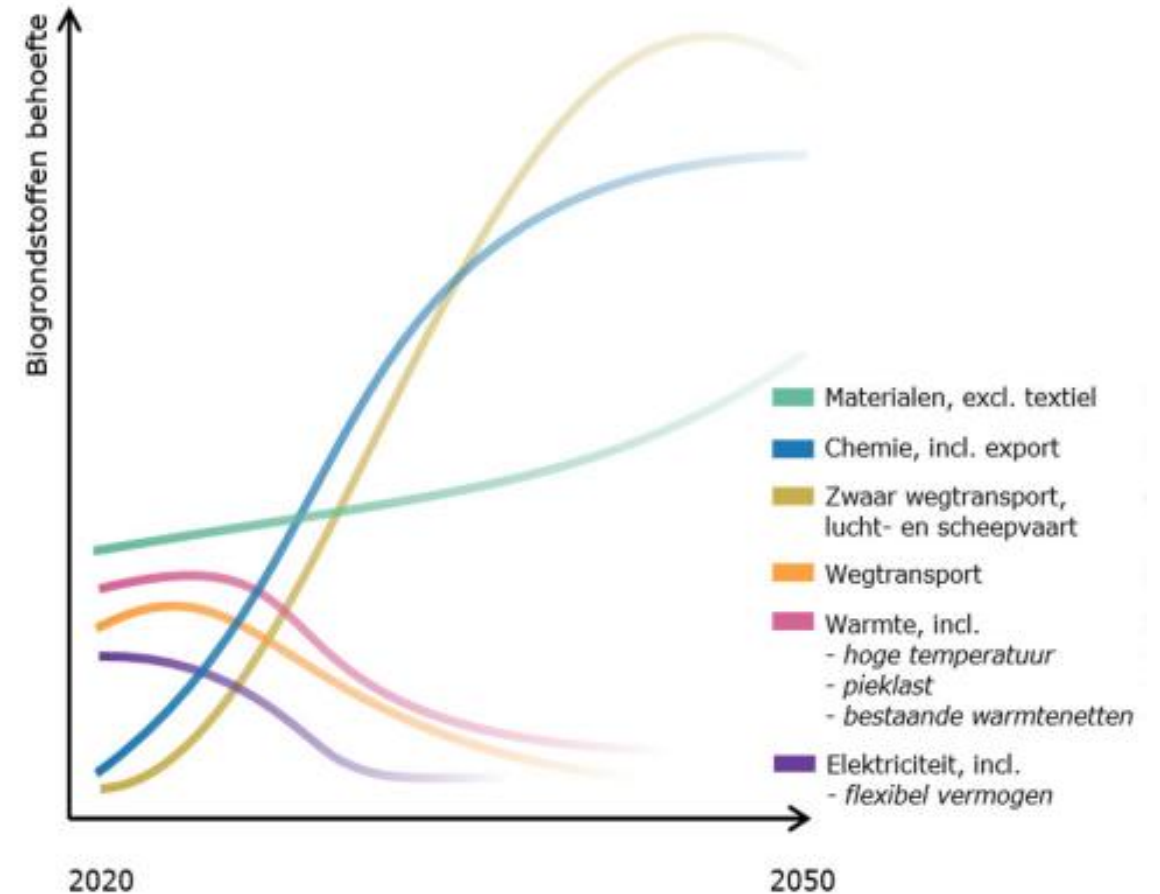
All plant-based or animal-based material, or material of plant or animal origin, that is used as a raw material in various applications.





# Our task

- > A growing global population, the depletion of fossil raw materials, and challenges in the areas of climate, nature, and the environment.
- > A huge increase in demand for biobased raw materials for non-food applications by 2050.
- > The lack of a level playing field and a decision-making framework to make choices between applications of biobased raw materials.
- > Geopolitical developments that call for strengthening strategic autonomy for the Netherlands and Europe.
- > In short, there is a demand to increase domestic supply and to use biobased raw materials as effectively, valuably, fairly, and sustainably as possible.



Source: SER-rapport 2020: Biomassa in balans



# Goal biobased raw materials strategy

## Output

- A **vision** that imagines the role of biobased raw materials in the economy of 2050.
- A **narrative** that describes the challenge and the dilemmas and choices involved in realizing the vision.
- A **strategy** that outlines possible solutions, formulates principles, and describes goals for the short, medium, and long term.
- An **action list** that outlines concrete actions as opportunities to implement the strategy and contribute to further policy development.

## Challenge

The urgency of optimizing the use of biobased raw materials to address human needs for food, materials, and energy in light of major societal challenges

## Goal

A supported plan that provides direction for the integrated policy approach of the Netherlands in increasing the sustainable supply, optimal use, and high-quality application of biobased raw materials.

## Impact

Sustainable and optimal use of biobased raw materials in a climate-neutral and circular economy.

## Outcome

Actors from the government, business sector, and societal organizations have a course of action to use biobased raw materials in a valuable way with economic prospects.



# Stakeholders



Citizens: fulfillment of fundamental needs: food, but also clothing, housing, warmth, energy, mobility, and leisure.



Farmers, chain companies, industry, and other businesses: meaningful work and valuable production and processing with a good business model.



LNVN: food security for citizens in a changing climate; perspective for farmers; preservation of nature and biodiversity. Guiding policy.



KGG (energy and chemicals), I&W (circularity, environment, mobility, waste streams), and VRO (construction). Requesting a strategy from LNVN



# Framework

## International

### Sustainable Development Goals

-17 doelen om toe te werken naar een meer duurzame wereld (ecologisch, sociaal en rechtvaardig).

### Klimaatakkoord

-Klimaatneutraal in 2050. Netto geen CO2-uitstoot.

### Kunming-Montreal Global Biodiversity Framework

-O.a. beperken van vervuiling, duurzaam beheer van landbouwgebieden, herstel van biodiversiteit en verkleinen mondiale voetafdruk.

### Global Research Outlook 2024

-Het toenemende gebruik van grondstoffen is de belangrijkste oorzaak van de 'triple planetary crisis' (klimaatverandering, verlies aan biodiversiteit, vervuiling en verspilling)  
-Gedurfd beleid is cruciaal belang om niet-duurzame activiteiten geleidelijk af te schaffen, verantwoorde en innovatieve manieren te versnellen en om in de menselijke behoeften te voorzien en de sociale acceptatie van de noodzakelijke transitie te bevorderen.

## EU

### A sustainable bioeconomy for Europe

-Strategie voor de bioeconomy van de EU  
-Update voorzien in 2025

### REDIII

-Richtlijn voor gebruik van duurzame energie  
-Bevat duurzaamheidscriteria voor gebruik van biomassa voor energie

## National

### Klimaatwet

-Klimaatneutraal in 2050  
-95% minder CO2-uitstoot in 2050 dan in 1990

### NPCE

-Nederland in 2050 volledig circulair.  
-De milieueffecten van grondstoffengebruik in een circulaire economie, dus van alle Nederlandse productie en consumptie, vallen dan binnen de 'planetaire' grenzen.  
-4 knoppen: vermindering grondstoffen, substitutie grondstoffen, hoogwaardige verwerking en levensduurverlenging.

### NPE

-Ontwikkelrichting energiesysteem naar 2050.  
-Minimaliseren gebruik fossiele koolstof en opbouw keten duurzame koolstof, zoals duurzame biograndstoffen.  
-Aankondiging biograndstoffenstrategie

### Duurzaamheidskader biograndstoffen

-Biomassa noodzakelijk in transitie naar klimaatneutrale en circulaire economie  
-Gericht op inzet van duurzame biograndstoffen met een zo hoogwaardig mogelijke toepassing

### Regeerprogramma

-Aankondiging biograndstoffenstrategie



# Circular Biobased Europe: Background & Relevance

Saske Hoving

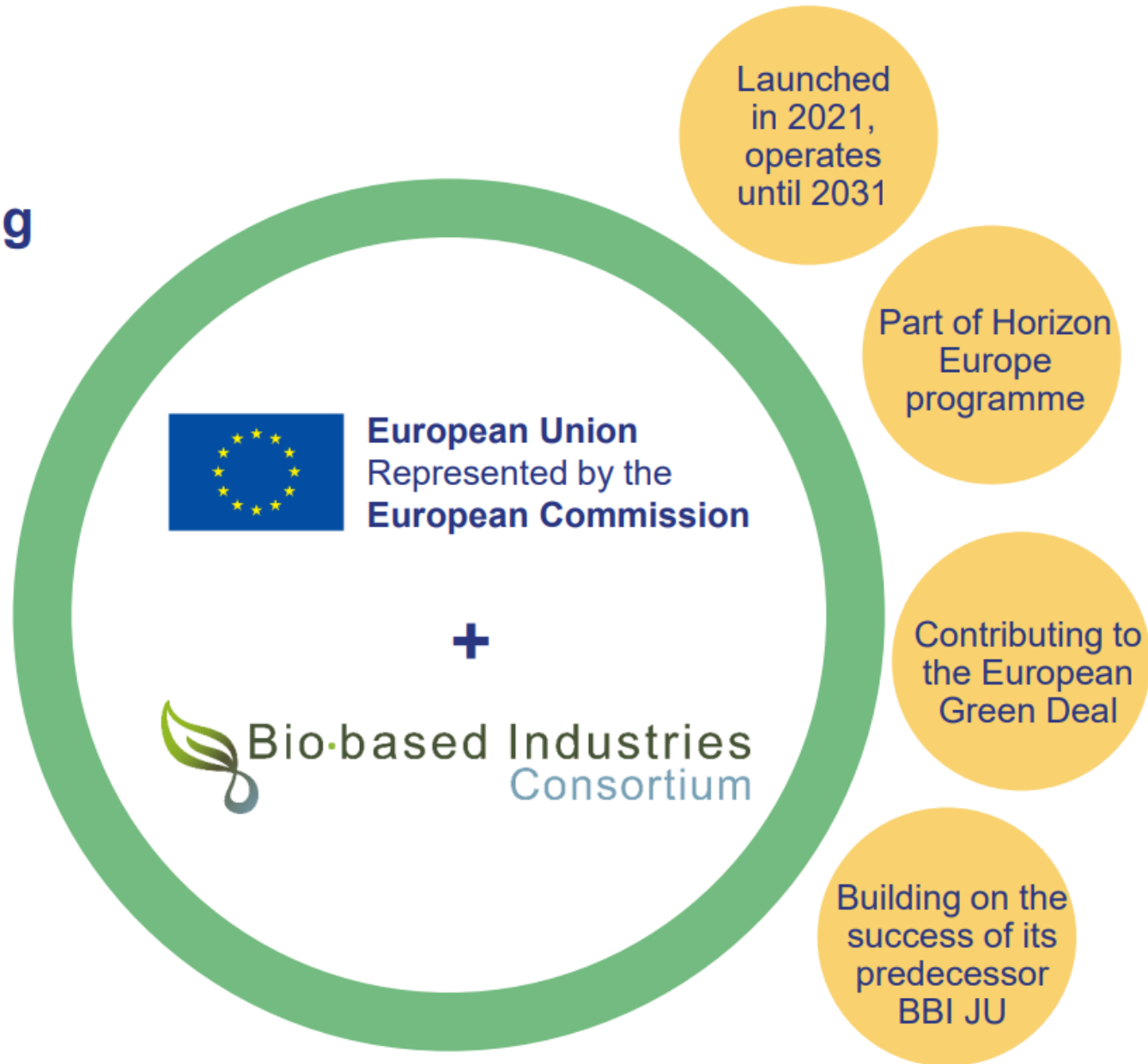
National Contact Point  
Horizon Europe Cluster 6  
RVO





# Circular Bio-based Europe Joint Undertaking

€2 billion public-private initiative



## Watch again the CBE JU Info Day 2025

The event brought together close to 450 potential applicants eager to learn more about the CBE JU 2025 call for project proposals. Close to 1000 in-person networking meetings took place throughout the day, and many more online. Connect to the CBE JU networking platform to engage with your peers and start building your project proposal for the 2025 call!

[Watch the event recordings](#) ▶



## Circular Bio-based Europe Joint Undertaking

CBE JU is a €2 billion partnership between the **European Union** and the **Bio-based Industries Consortium (BIC)** that funds projects advancing competitive circular bio-based industries under Horizon Europe, the EU's research and innovation programme. CBE JU is the legal and universal successor of BBI JU.



# Projects

Home / Projects

## Filter options

Search Project focus  
Choose some options ▾Status  
Choose some options ▾Type of project  
Choose some options ▾Feedstock origin  
Choose some options ▾Feedstock type  
Choose some options ▾Biorefinery location  
Choose some options ▾Call  
Choose some options ▾Country  
Choose some options ▾

Refine

Clear

Results (194)

Sort by  
A-Z ▾Export results 

### ABACUS

Algae production is currently limited to a few small industries, mainly for the feed, nutrition and cosmetic sectors. This is ripe for expansion...

**Project focus:** Food, feed & cosmetics

Completed



### AFTERBIOCHEM

The EU is currently the world's largest producer of sugar beet; at 17 million tonnes in 2016-17, it represents around half of all global production...

**Project focus:** Bio-based chemicals

In progress



### AFTERLIFE

The AFTERLIFE project proposes a flexible, cost- and resource-efficient process for recovering and valorising the relevant fractions from wastewater...





**Project focus:** Packaging

Completed

# Projects

Home / Projects


## Filter options

Search Project focus  
Choose some options ▾Status  
Choose some options ▾Type of project  
Choose some options ▾Feedstock origin  
Choose some options ▾Feedstock type  
Choose some options ▾Biorefinery location  
Choose some options ▾Call  
HORIZON-JU-CBE-2022   
HORIZON-JU-CBE-2023   
HORIZON-JU-CBE-2023-2 Country  
Netherlands 

Refine

Clear

Results (30)

Sort by  
A-Z ▾Export results 

### Bio-LUSH

Bio-LUSH aims to extract high-quality fibres from the cell walls of underexploited and widely available European plant resources, including nettles...

**Project focus:** Textile

In progress



### BIOntier

The need for renewable, eco-friendly materials is driving the increasing demand for bio-based composites. The sector is however facing many challenges...

**Project focus:** Bio-based polymers & plastics

In progress



### BIOPYRANIA

The European automotive and energy industries are facing the challenge of creating sustainable alternatives to fossil fuel-based products with a low...

**Project focus:** Bio-based polymers & plastics

In progress

### BIORADAR



# BIOPYRANIA

BIOBASED PYRAZINE MONOMERS FROM SECOND GENERATION BIOMASS FOR HIGH PERFORMANCE POLYMERS, COPOLYMERS AND BLENDS

[View website ▶](#)

[Home](#) / [Projects](#) / [BIOPYRANIA](#)

## Page content

Project details

Summary

News

Related projects

## Project details

<b>Type of project</b>	Research & Innovation Action	<b>Project period</b>	1 October 2024 - 30 September 2028
<b>Project focus</b>	Bio-based polymers & plastics	<b>Status</b>	<span>In progress</span>
<b>Feedstock origin</b>	Forestry waste	<b>CBE JU Contribution</b>	€ 4 999 785,00
<b>Feedstock type</b>	Lignin & wood residues	<b>Call identifier</b>	HORIZON-JU-CBE-2023

## Summary

The European automotive and energy industries are facing the challenge of creating sustainable alternatives to fossil fuel-based products with a low environmental impact and high durability, recyclability, and safety.



Biobased monomers from second generation biomass for high performance polymers, copolymers, and blends

What we do

## The Biopyrania project

The Sustainable Product Initiative (SPI) in Europe aims to promote the development and market introduction of more sustainable, recyclable, and durable products, with a particular emphasis on electronics, textiles, furniture, steel, cement, and chemicals.

The BIOPYRANIA project addresses this challenge and introduces a groundbreaking approach by developing innovative biobased compounds – specifically pyrazine-based building blocks, produced safely and sustainably through synthesized acids obtained via second generation woody biomass – with the potential to



# Achievements

Home / Achievements

## Filter options

Search

**Theme**  
Choose some options

**Type of project**  
Choose some options

**Feedstock origin**  
Choose some options

Refine Clear

## Results (63)



### How EMBRACED pioneered a new era for biorefineries in Italy

Projects: EMBRACED 07 April 2025

Enhanced circularity



### When ideas and partners match for success

The CBE JU networking platform is more than just a tool for connecting people: it is a launchpad for transformative ideas that drive Europe's...

Projects: Polymers-5B 03 March 2025

Bio-based plastics



### Innovative enzyme technology leads the fight against plastic waste

The CBE JU-funded ENZYCLE project tackles plastic waste and microplastics with novel enzyme-based recycling, helping reduce environmental impact and...

Projects: ENZYCLE 15 November 2024

Enhanced circularity



### Worms and insects give new life to plastic waste

Insects, worms and microorganisms can help us to reduce waste and turn hard-to-recycle plastic into useful, high-value products.

Projects: RECOVER 07 November 2024

# What can CBE JU-funded bio-based solutions do?

## Bio-based glues from crop residues

Significantly improve indoor air quality, tested by IKEA on the SUSKET cupboard.

— SUSBIND project



## Insulation foam made from eucalyptus tree waste

Performs similarly to current alternatives but generates less CO<sub>2</sub>.

— FRACTION project



## Sustainable bio-based coating made from lignin

Improves the sustainability of coatings and provides a healthier alternative to fossil-based ones.

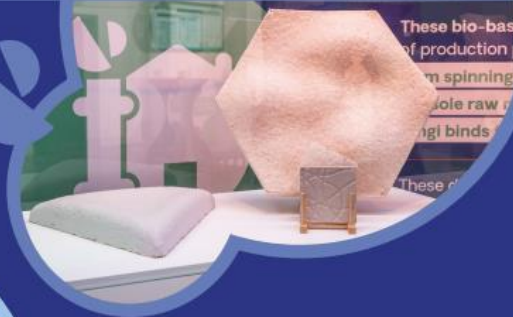
— LIGNICOAT project



## Sound insulation panels from waste & fungi

Absorb the noise remarkably and sustainably.

— GRACE project



## Insulation foams from forestry residues

Replace fossil-based materials in construction.

— SWEETWOODS project



# ENOUGH Opens World's Largest Non-animal Protein Facility in the Netherlands



**UK-based food tech company innovates towards the sustainable food transition**



The UK-based food tech company ENOUGH (formerly 3F BIO) has opened its flagship protein facility in the Netherlands. The new factory is the **largest non-animal protein farm** in the world and will enable ENOUGH to contribute to the transition towards sustainable food systems.

With initial capacity to produce 10,000 tonnes (22 million pounds) per annum from Q4 2022, the 15,000 square metre (160,000 square feet) facility is co-located alongside the **Cargill facility** in Sas van Gent. The location and collaboration with Cargill ensures the most efficient feed source and supports the zero-waste objective of ENOUGH's product.

## Supporting a circular economy

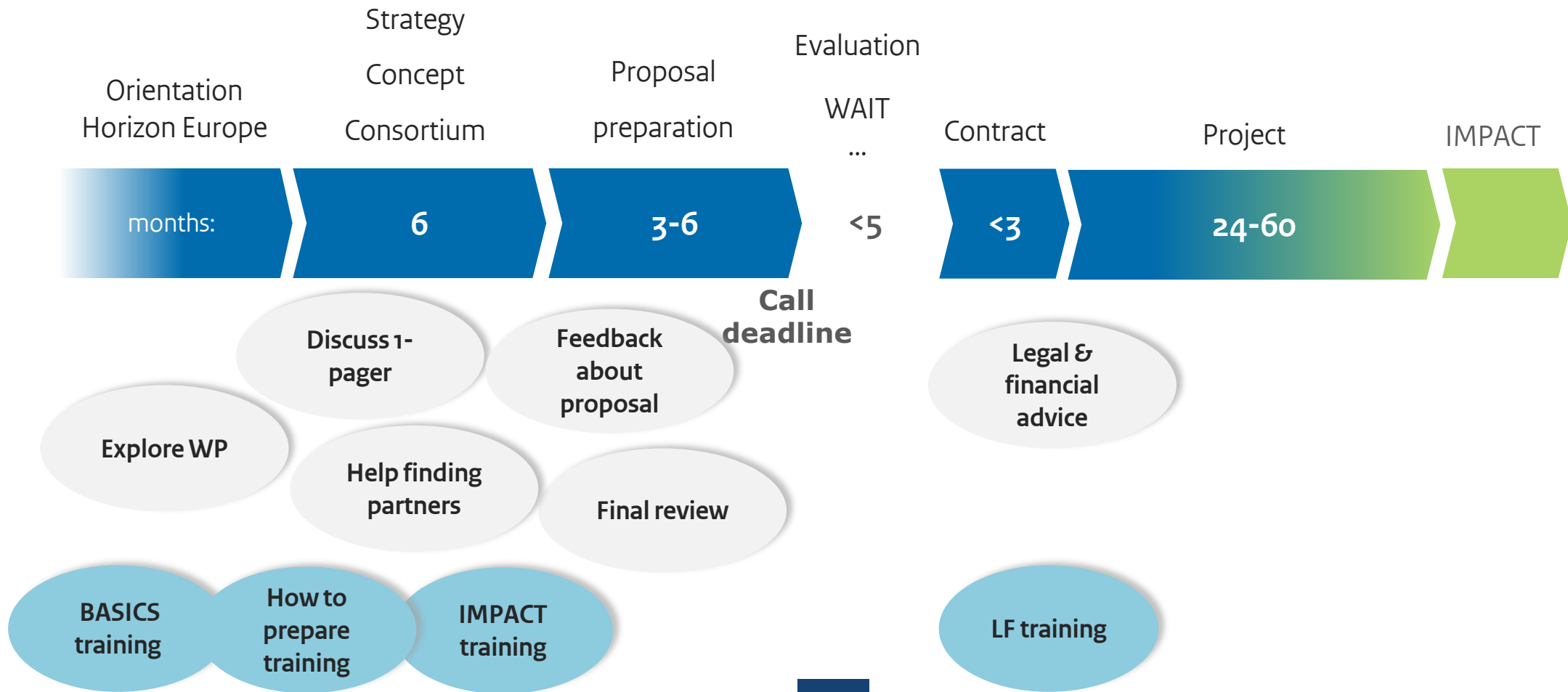
ENOUGH's plans to reach 60,000 tonnes of capacity by 2027, equivalent to growing one cow's worth of protein every two minutes. This is wholly aligned with the development of the circular economy and the new facility has been supported by the circular Bio Based Europe Joint Undertaking CBE JU with receipt of €16.9 million of EU funding as part of project Plenitude1 which involves partners from the full value chain.

Her Majesty Queen Máxima to open the world's first FDCA Flagship Plant





# Contact your Horizon Europe advisors @ RVO





**Saske**

[Saske.hoving@rvo.nl](mailto:Saske.hoving@rvo.nl)



**Alexander**

[Alexander.vandorssen@rvo.nl](mailto:Alexander.vandorssen@rvo.nl)

**Suraj**

[Suraj.jamge@rvo.nl](mailto:Suraj.jamge@rvo.nl)



RVO- Your National Contact Point  
for Horizon Europe



Netherlands Enterprise Agency  
Rijksdienst voor Ondernemend  
Nederland



# CBE 2025 Opportunities & Key to Success

Dieter Brigitta

CBE JU  
Call Coordinator / Programme Officer



# Call 2025: link with Horizon Europe + tips & tricks

Dieter BRIGITTA

Call Coordinator / Programme Officer

9 April 2025



# Table of contents

- **The Circular Biobased Europe Joint Undertaking**
- **CBE JU vs. Horizon Europe: similarities & differences**
  - Call 2025 topic overview & structure
  - CBE specific requirements (incl. IKOP)
- **Q&A**
- **Proposal preparation: Lessons learnt from past calls**
- **Call 2025 timing, tips & tricks and networking opportunities**
- **Q&A**

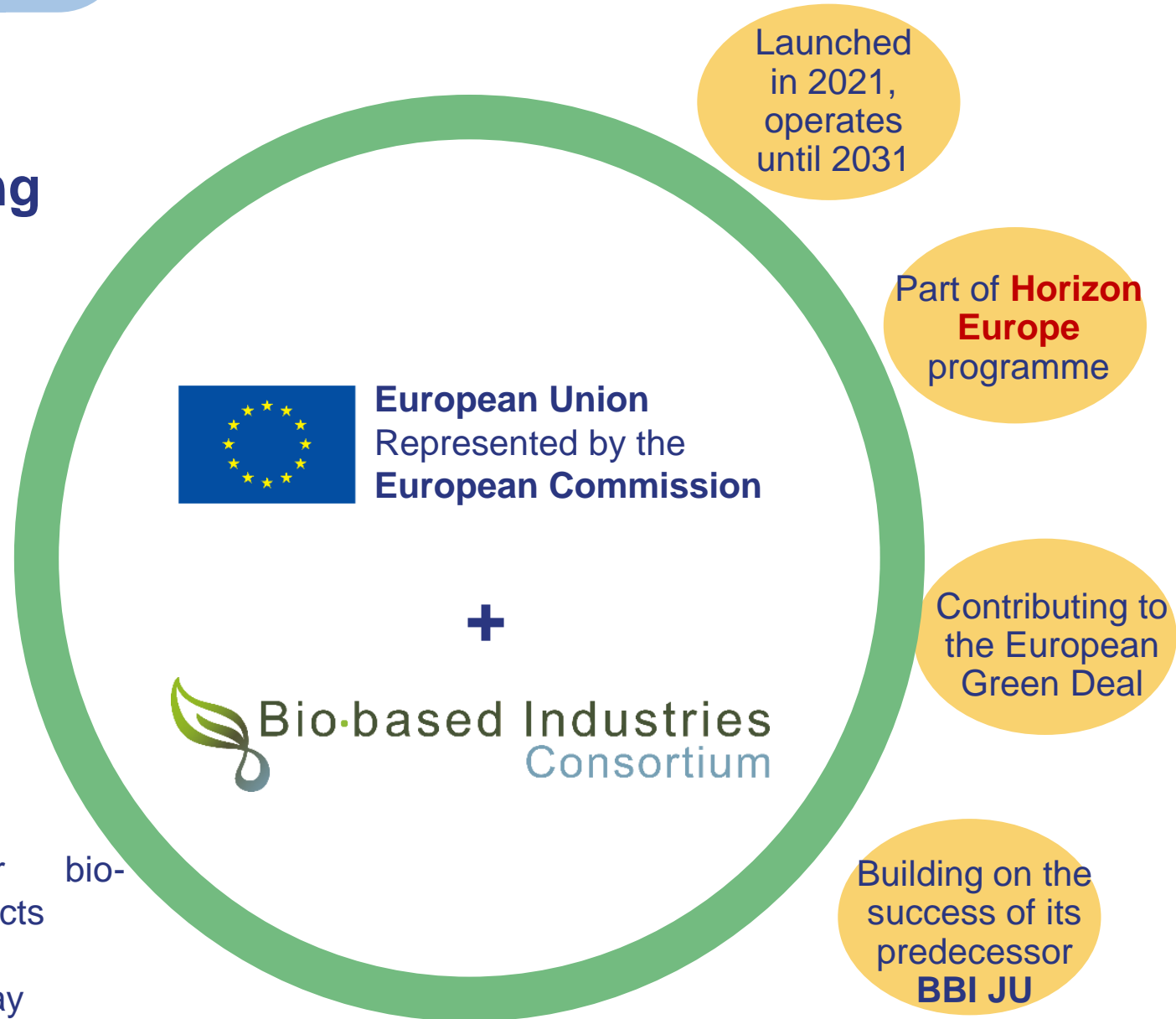
# Table of contents

- **The Circular Biobased Europe Joint Undertaking**
- **CBE JU vs. Horizon Europe: similarities & differences**
  - Call 2025 topic overview & structure
  - CBE specific requirements (incl. IKOP)
- Q&A
- Proposal preparation: Lessons learnt from past calls
- Call 2025 timing, tips & tricks and networking opportunities
- Q&A

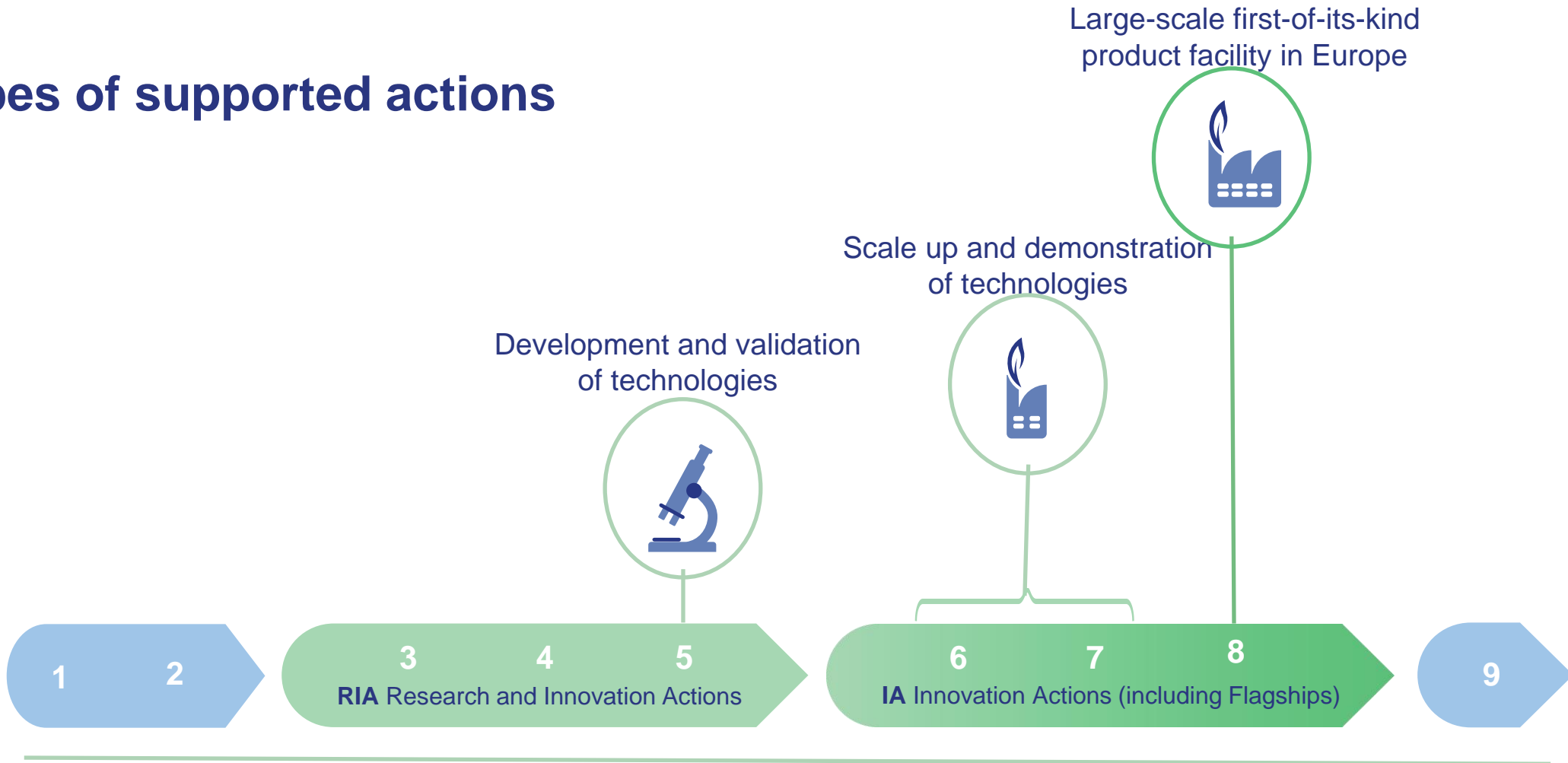
# Circular Bio-based Europe Joint Undertaking

€2 billion public-private initiative

CBE JU is funding projects that deliver bio-based solutions – materials and products made from waste and biomass – in an innovative, sustainable and circular way



# Types of supported actions



Technology Readiness Level (TRL)

CSA: Coordination and Support Actions (no link with TRLs)

## CBE JU portfolio: 2014-2023



**192**  
projects



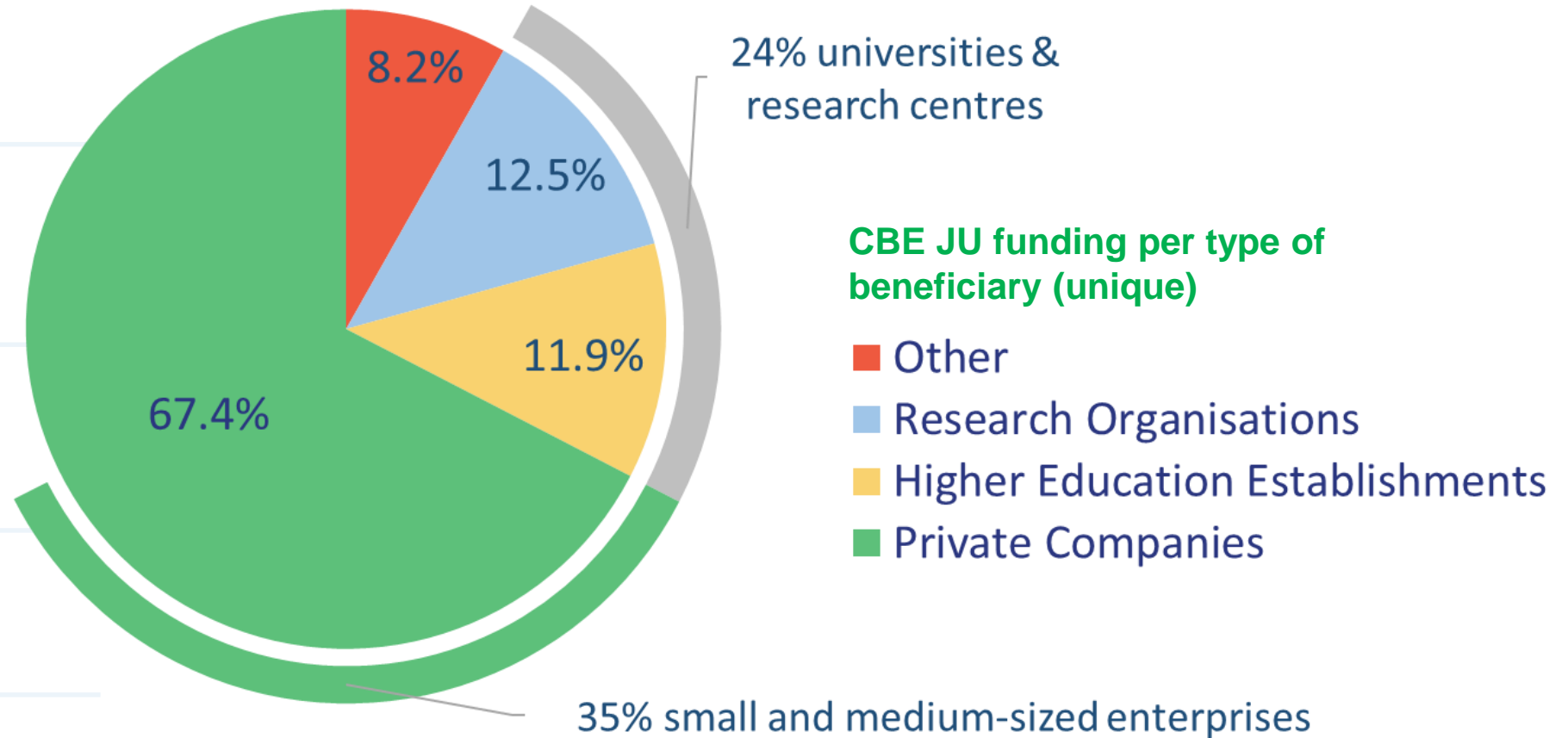
**1,552**  
beneficiaries



**€1,117** million  
CBE JU funding



**43**  
countries



*Data: CORDA, May 2024*

NL

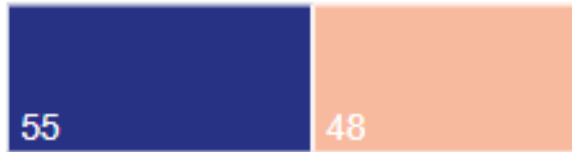
Number of projects

103

16

coordinated projects

Completed Ongoing



**Small and medium-sized enterprises (SMEs)**

Only private companies

CBE JU funding to SMEs

39,20M€

Number of SMEs

56

**Members of the Bio-based Industries Consortium (BIC)**

45

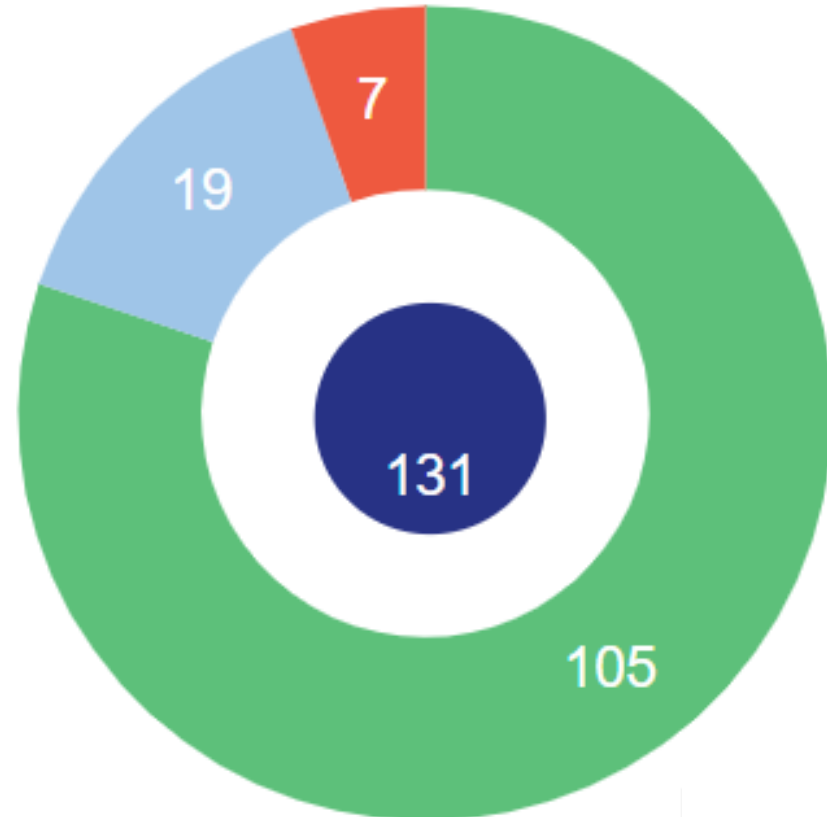
CBE JU funding

99,19M€

Private companies Universities & research centres other

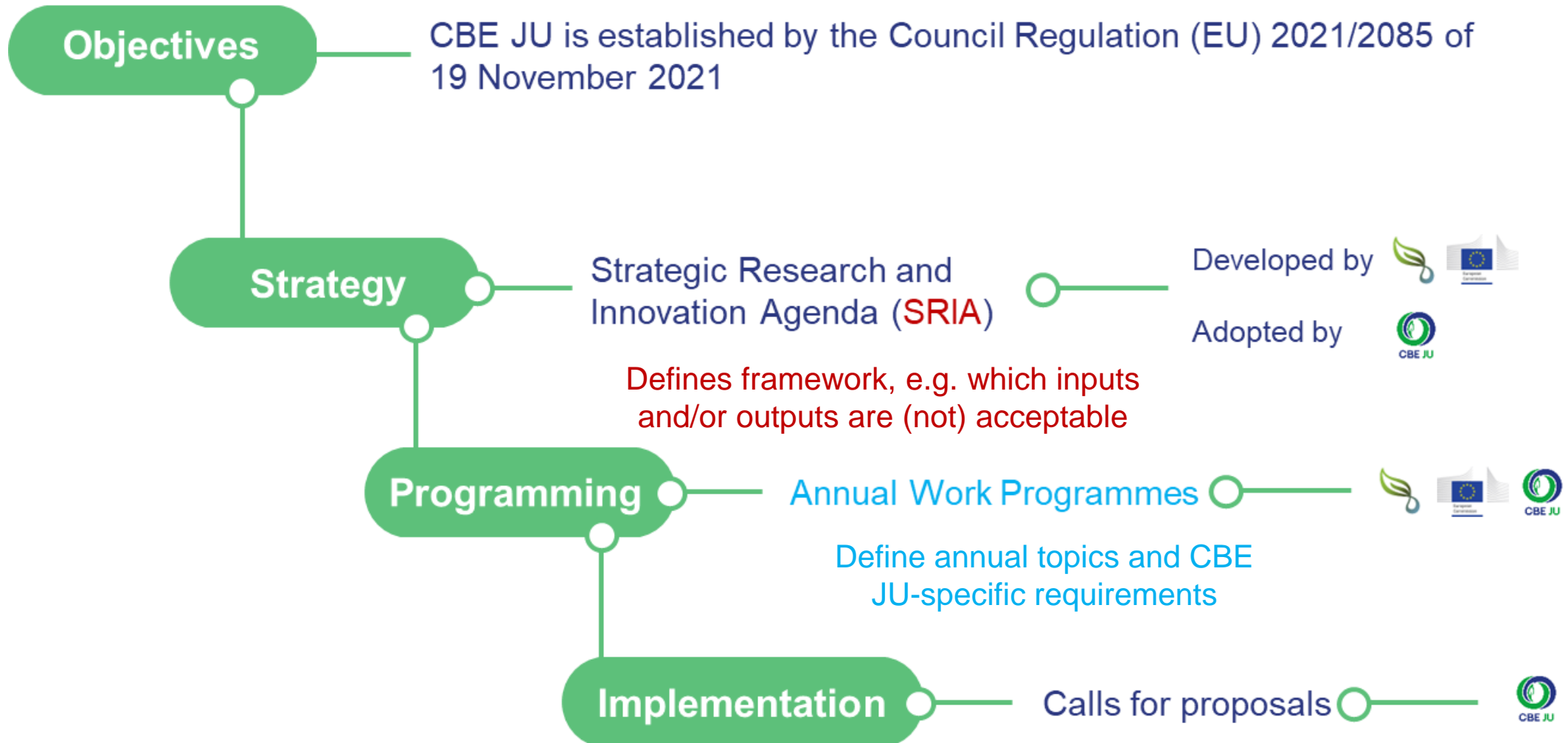


Beneficiaries



Funding year

# From strategy to implementation



# SRIA – acceptable inputs (1/2)

Annex V. Table V.1: Potential feedstock for the bio-based industry<sup>105</sup>

Bio-based feedstock category	Examples of bio-based feedstock
Agri-food feedstock	<ul style="list-style-type: none"> <li>• Side streams and residual streams (or residues) from agriculture and horticulture.</li> <li>• Food and feed waste: bio-waste<sup>106</sup> and side streams from the food and feed production/processing.</li> <li>• Non-edible biomass fractions of food crops.</li> <li>• Perennial grasses, fibre crops or other industrial crops.</li> <li>• Residues of lignocellulosic fraction of industrial crops.</li> <li>• Surplus streams from agricultural biomass processing such as carbohydrates or oils, respecting the “food first” and “cascading use” principles.</li> </ul>
Forest-based feedstock	<ul style="list-style-type: none"> <li>• Damaged and/or contaminated wood.</li> <li>• Residues from lignocellulosic biomass and wood from woodlands and the forest-based industry.</li> <li>• Certified lignocellulosic biomass or certified woody biomass harvested from sustainably managed forests.</li> </ul>
Aquatic biomass	<ul style="list-style-type: none"> <li>• Aquatic biomass and residual streams (or residues) from aquatic biomass cultivation, processing, and from fisheries.</li> <li>• Industrial biomass grown in open ponds and/or closed systems.</li> </ul>

# SRIA – acceptable inputs (2/2)

Annex V. Table V.1: Potential feedstock for the bio-based industry<sup>105</sup>

<p>Industrial and municipal bio-based residues and waste (other than food waste)</p>	<ul style="list-style-type: none"> <li>• Bio-waste (other than food waste from production; including post-consumer waste).</li> <li>• Sewage and wastewater sludge.</li> <li>• Used cooking oil.</li> <li>• Residues and by-products from the bio-based industry.</li> <li>• Recycled bio-based products.</li> <li>• Other residues and waste that can be used in bio-based processes.</li> </ul>
<p>Biogenic gaseous carbon</p>	<ul style="list-style-type: none"> <li>• Carbon in gaseous emissions from biomass-based industrial ecosystems and biorefineries or any other bio-based operation.</li> </ul>
<p>Other / new feedstock</p>	<ul style="list-style-type: none"> <li>• Microbial biomass (including microorganisms).</li> <li>• Insects and fungi.</li> <li>• Residues from nature and landscape management (bio-waste other than food and post-consumer waste).</li> <li>• Products derived from multifunctional forestry practices (other than wood).</li> </ul>

*A non-exhaustive list...but an interesting framework*

# SRIA – acceptable outputs

- **SRIA, p.3**

- “The bio-based solutions and innovations that fall within the scope of CBE should focus on the production of bio-based chemicals, materials, food and feed ingredients and soil nutrients.”
- “Biofuels, bioenergy, food and feed, pharmaceuticals and medical devices are **not** within the remit of the partnership.”

- **Each Annual Work Programme (AWP)**

- Can include more narrow input and/or output requirements (e.g. specific focus of a topic, feedstock sourcing and sustainability requirements)...
- ...but submitted proposals always need to be in line with the SRIA **and** AWP
- I.e. if the AWP or topic does not limit the use of certain inputs, or does not explicitly aim for specific outputs, then the SRIA requirements / framework are still applicable



# 13 topics and their budget

*Many input- and/or output-agnostic topics => check SRIA for framework*

Type of action	Topics HORIZON-JU-CBE-2025		Million EUR
IA- Flagship	IAFlag-01	Urban-industrial symbiosis for <b>bio-waste</b> valorisation	20
	IAFlag-02	Bio-based <b>drop-ins/smart drop-in platform chemicals</b> , via cost-effective, sustainable and resource-efficient conversion of biomass	20
	IAFlag-03	Circular-by-design <b>fibre-based packaging</b> with improved properties	20
	IAFlag-04	<b>Retrofitting</b> of (bio)refineries industrial plants towards higher-value bio-based products	20
IA	IA-01	Sustainable <b>macroalgae</b> systems for innovative, added-value applications: <b>cultivation and optimised production systems</b>	14
	IA-02	Safe and Sustainable by Design (SSbD) bio-based solutions to replace hazardous conventional <b>chemicals for textiles production</b>	14
	IA-03	Scaling-up nutritional <b>proteins</b> from alternative sources	14
	IA-04	Cost-effective and robust <b>continuous</b> biotech bio-based <b>processes</b>	14
	IA-05	SSbD bio-based <b>polymers/copolymers</b> unlocking new market applications	14
RIA	R-01	Valorisation of untapped <b>forest biomass</b>	7
	R-02	Bio-based and biodegradable delivery systems for <b>fertilising products</b> to reduce microplastics pollution & promote soil health	7
	R-03	<b>Alternative biomanufacturing routes</b> for natural and synthetic <b>rubber</b>	7
CSA	S-01	Develop and deploy new <b>curricula and knowledge exchange practices</b> relevant to bio-based systems	1

Total 172

On 26 March 2025, the 2nd amendment of the AWP 2025 was approved by the CBE JU Governing Board => please check that you have downloaded the correct AWP version

# Horizon Europe + CBE requirements

## Horizon Europe (HE) rules

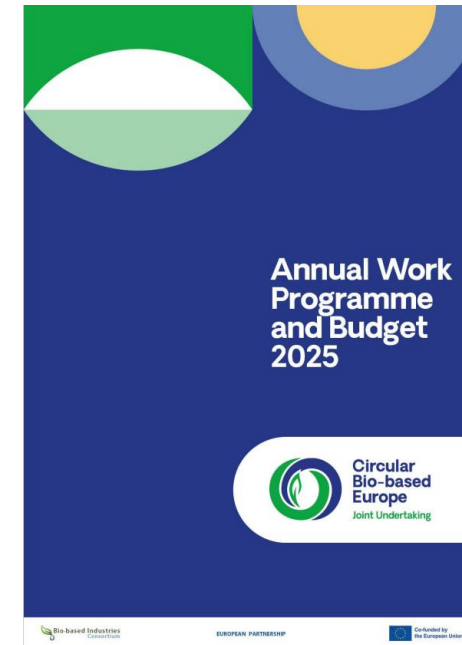
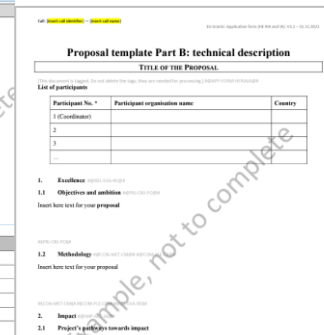
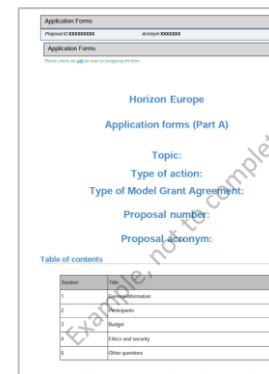
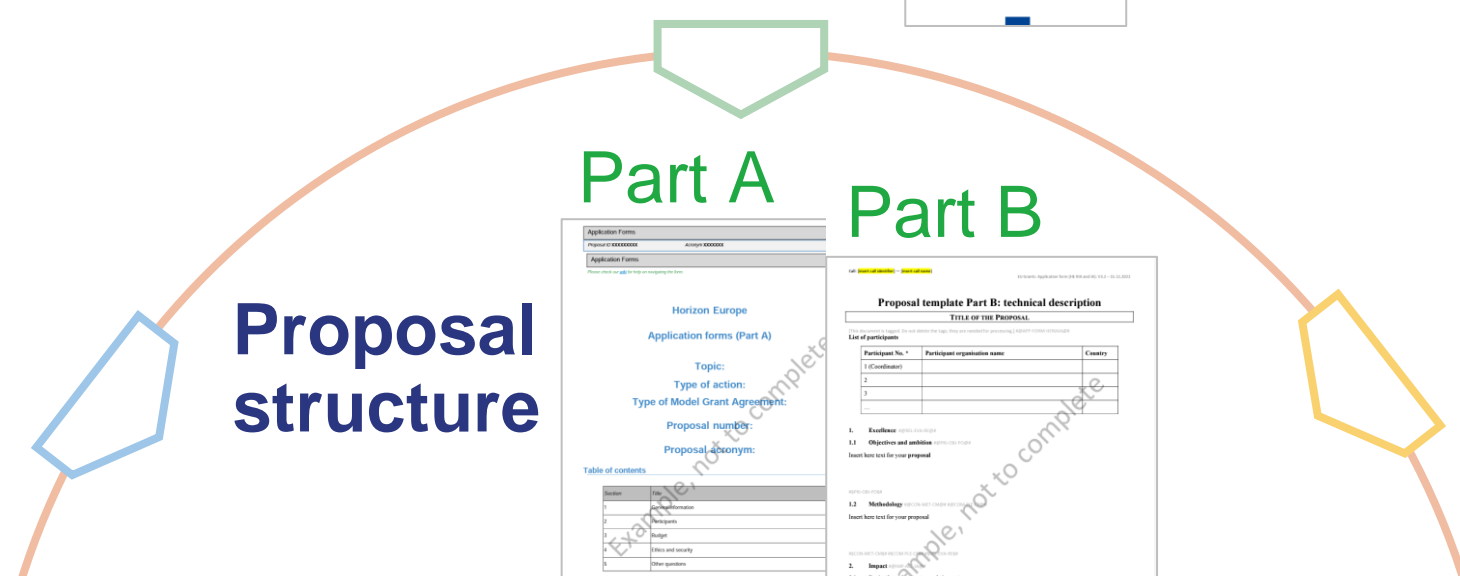
- Eligibility
- Admissibility
- General annexes

## HE evaluation criteria

- Excellence
- Impact
- Implementation


## CBE Annual Work Programme 2025

- Topics
- **Specific requirements**
- Budget



Specific CBE JU requirement	Type of action	Where to include it in Part B
<b>Feedstock sourcing (eligibility condition)</b>	RIA and IA, incl. FLAG	Part B – (Y/N) question
<b>Feedstock sustainability requirements</b>	RIA and IA, incl. FLAG	Part B – (Y/N) question
<b>Description of feedstock</b>	RIA and IA, incl. FLAG	Part B – 1.2 Methodology
<b>Environmental performance</b>		
<b>a) Ex-ante assessment</b> <ul style="list-style-type: none"> <li>• Identification of environmental issues</li> <li>• Estimation of environmental sustainability performance</li> <li>• Estimation of carbon removal potential</li> </ul>	RIA and IA, incl. FLAG	Part B – 1.2 Methodology
<b>b) Ex-post assessment</b> <ul style="list-style-type: none"> <li>• Dedicated task for RIA</li> <li>• Dedicated task or WP (LCSA) for IA non-FLAG</li> </ul>	RIA IA, incl. FLAG	Part B - 3.1 Workplan and resources

# CBE JU Call 2025 specific requirements (2/2)

Specific CBE JU requirement	Type of action	Where to include it in Part B
<b>Multi-actor approach (MAA)</b>	IA, incl. FLAG RIA and CSA, when specified	Part B – 1.2 Methodology
<b>Economic aspects:</b> <ul style="list-style-type: none"> <li>Qualitative business case</li> <li>Quantified business case and business model</li> <li>Executive summary of the business plan, including the underlying business case and business model</li> <li>Business plan</li> </ul>	 RIA IA non-FLAG FLAG FLAG	Part B – 2.2 Measures to maximise impact – D&E&C  FLAG: Annex (Business plan)
<b>Digital technologies</b>	RIA and IA, incl. FLAG	Part B – 1.2 Methodology
<b>Cross-disciplinary aspects and Social Sciences and Humanities (SSH)</b>	All types of actions	Part B – 1.2 Methodology

# Similarities and **differences** with Horizon Europe



## Funding rate

- RIA: 100%
- IA: **60%** (100% non-profit)
- CSA: 100%



## Award criteria

- RIA, IA & CSA: Excellence, Impact, Implementation
- + Impact: **Ability to ensure 5% (RIA), 15% (IA) or 20% (IAFlag) of in-kind contribution to operational activities (IKOP)**  
= minimum IKOP percentage



## Page limit

- RIA: **50 p.**
- IA: **70 p.**
- CSA: 30 p.



## Scoring thresholds

- Excellence: 3/5
- Impact: **4/5**
- Implementation: 3/5
- Total: **11/15**

# IKOP vs BIC membership

- **IKOP?**

- Total eligible costs minus total requested funding (of BIC members)
- Only applicable to RIA and IA incl. Flagships
- CBE JU evaluation subcriterion (5%, 15% or 20% threshold, depending on type of action)

- **BIC membership**

- CBE JU will check BIC membership during evaluation...
- ...via an Annex to the proposal: 1 pdf file with all 'BIC membership certificates' or BIC members involved in the consortium
- BIC membership certificates to be requested to BIC via <https://bic.elisca.app/membership/certificate/registration>
- When building your consortium, you might encounter organisations interested in becoming a BIC member (and who could 'boost' your IKOP)
- 'Project membership': temporary membership option, (only) relevant for CBE JU Calls: the organisation will become a BIC member if their proposal is successful

# In-kind contribution to operational activities (IKOP) (1/3)

## FLAGSHIPS

**IKOP** = Total eligible costs – Requested EU contribution (of private members)

In CBE JU, the only private member is the **Bio-based Industries Consortium (BIC)**.

→ **Minimum percentage of IKOP** must be reflected in the budget of partners that are BIC members.

Example 1: IA Flagship Criterion: $\geq 20\%$ IKOP	BIC member	Industry / Academia	Total eligible costs	Funding rate	Requested EU contribution	IKOP
Beneficiary 1 - Coordinator (BIC member)	Y	industry	€ 7,000,000	60%	€ 4,200,000	€ 2,800,000
Beneficiary 2	N	academia	€ 590,000	100%	€ 590,000	
Beneficiary 3 (BIC member)	Y	industry	€ 5,000,000	60%	€ 3,000,000	€ 2,000,000
Beneficiary 4	N	industry	€ 3,000,000	60%	€ 1,800,000	
Beneficiary 5	N	academia	€ 800,000	100%	€ 800,000	
<b>TOTAL</b>			<b>€ 16,390,000</b>		€ 10,390,000	<b>€ 4,800,000</b>

$$\text{Percentage IKOP} = \frac{\text{€ 4,800,000}}{\text{€ 16,390,000}} = 29,3\% > 20\% \quad \text{👍}$$

# In-kind contribution to operational activities (IKOP) (2/3)

## Innovation Actions (example 2a: 1 BIC member)

**IKOP = Total eligible costs – Requested EU contribution (of private members)**

In CBE JU, the only private member is the **Bio-based Industries Consortium (BIC)**.

→ **Minimum percentage of IKOP** must be reflected in the budget of partners that are BIC members.

Example 2a: IA Criterion: $\geq 15\%$ IKOP	BIC member	Industry / Academia	Total eligible costs	Funding rate	Requested EU contribution	IKOP
Beneficiary 1 - Coordinator ( <b>BIC member</b> )	Y	industry	€ 3,200,000	60%	€ 1,920,000	€ 1,280,000
Beneficiary 2	N	academia	€ 590,000	100%	€ 590,000	
Beneficiary 3	N	industry	€ 1,500,000	60%	€ 900,000	
Beneficiary 4	N	industry	€ 3,000,000	60%	€ 1,800,000	
Beneficiary 5	N	academia	€ 800,000	100%	€ 800,000	
<b>TOTAL</b>			<b>€ 9,090,000</b>		€ 6,010,000	<b>€ 1,280,000</b>

$$\text{Percentage IKOP} = \frac{\text{€1,280,000}}{\text{€ 9,090,000}} = 14,1\% < 15\% \quad \text{👎}$$

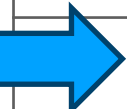
# In-kind contribution to operational activities (IKOP) (2/3)

## Innovation Actions (example 2b: 2 BIC members)

**IKOP = Total eligible costs – Requested EU contribution (of private members)**

In CBE JU, the only private member is the **Bio-based Industries Consortium (BIC)**.

→ **Minimum percentage of IKOP** must be reflected in the budget of partners that are BIC members.

Example 2b: IA Criterion: $\geq 15\%$ IKOP	BIC member	Industry / Academia	Total eligible costs	Funding rate	Requested EU contribution	IKOP
Beneficiary 1 - Coordinator (BIC member)	Y	industry	€ 3,200,000	60%	€ 1,920,000	€ 1,280,000
Beneficiary 2	N	academia	€ 590,000	100%	€ 590,000	
 Beneficiary 3 (BIC member)	Y	industry	€ 1,500,000	60%	€ 900,000	€ 600,000
Beneficiary 4	N	industry	€ 3,000,000	60%	€ 1,800,000	
Beneficiary 5	N	academia	€ 800,000	100%	€ 800,000	
<b>TOTAL</b>			<b>€ 9,090,000</b>		€ 6,010,000	<b>€ 1,880,000</b>

$$\text{Percentage IKOP} = \frac{\text{€1,880,000}}{\text{€ 9,090,000}} = 20.6\% > 15\% \quad \text{👍}$$

# In-kind contribution to operational activities (IKOP) (3/3)

## RIAs (example 3a: 1 BIC member)



**IKOP** = Total eligible costs – Requested EU contribution (of private members)

In CBE JU, the only private member is the **Bio-based Industries Consortium (BIC)**.

→ **Minimum percentage of IKOP** must be reflected in the budget of partners that are BIC members.

Example 3a: RIAs Criterion: <u>≥ 5% IKOP</u>	BIC member	Industry / Academia	Total eligible costs	Funding rate	Requested EU contribution	IKOP (only for BIC members)
Beneficiary 1 - Coordinator	Y	industry	€ 2,000,000	100%	€ 2,000,000	
Beneficiary 2	N	academia	€ 590,000	100%	€ 590,000	
Beneficiary 3 ( <b>BIC member</b> )	Y	industry	€ 700,000	100%	<b>€ 500,000</b>	€ 200,000
Beneficiary 4	N	industry	€ 300,000	100%	€ 300,000	
Beneficiary 5	N	academia	€ 800,000	100%	<b>€ 600,000</b>	
<b>TOTAL</b>			<b>€ 4,390,000</b>		€ 3,990,000	<b>€ 200,000</b>

$$\text{Percentage IKOP} = \frac{\text{€ 200,000}}{\text{€ 4,390,000}} = 4,5\% < 5\% \quad \text{👎}$$

# In-kind contribution to operational activities (IKOP) (3/3)

## RIAs (example 3b: 2 BIC members)



**IKOP** = Total eligible costs – Requested EU contribution (of private members)

In CBE JU, the only private member is the **Bio-based Industries Consortium (BIC)**.

→ **Minimum percentage of IKOP** must be reflected in the budget of partners that are BIC members.

Example 3b: RIAs Criterion: <u>≥ 5% IKOP</u>	BIC member	Industry / Academia	Total eligible costs	Funding rate	Requested EU contribution	IKOP (only for BIC members)
Beneficiary 1 - Coordinator	Y	industry	€ 2,000,000	100%	€ 2,000,000	
Beneficiary 2	N	academia	€ 590,000	100%	€ 590,000	
Beneficiary 3 (BIC member)	Y	industry	€ 700,000	100%	€ 500,000	€ 200,000
Beneficiary 4	N	industry	€ 300,000	100%	€ 300,000	
Beneficiary 5 (BIC member)	Y	academia	€ 800,000	100%	€ 600,000	€ 200,000
<b>TOTAL</b>			<b>€ 4,390,000</b>		€ 3,990,000	<b>€ 400,000</b>

Percentage IKOP =  $\frac{€ 400,000}{€ 4,390,000} = 9\% > 5\%$

# “CBE, does my idea fit topic X?”

## Q 3.2.1: Can CBE JU check if a proposal idea is good or in line with the topic text?

No, mainly because of the following reasons:

- CBE JU Calls follow a competitive process, and the programme office cannot provide individual guidance in the interest of transparency and fairness;
- CBE JU proposals are not evaluated by CBE JU staff members, but by external experts with diverse expertise, who evaluate each proposal individually and in a panel setting. It is therefore up to each consortium to clearly describe how their proposal ticks all the boxes described in the topic text, and to convince these external experts (not CBE JU staff) that and how the proposal's objectives, concept, expected impacts and implementation measures are in line with the topic text;
- The CBE JU topic texts are the result of co-creation between the European Commission and BIC (<http://biconsortium.eu/>), and include the feedback from CBE JU's Scientific Committee and States Representatives Group. Based on these inputs, the topic texts are written in such a way that they clearly explain the challenge, yet leave a fair amount of freedom to proposal writers to come up with a suitable solution. It is up to each consortium to convince the external experts if and how the proposal's solution is appropriate to address the challenges and expected impacts described in the topic text.
- Proposal writers have 30-70 pages depending on the type of action to develop their idea and to convince expert-evaluators. A 1-page summary of a proposal idea might at first sight be 100% relevant for a topic text, but when described in 30-70 pages, it might NOT be relevant after all (and vice versa).

<https://www.cbe.europa.eu/open-calls-proposals> => FAQ for applicants

# Table of contents

- **The Circular Biobased Europe Joint Undertaking**
- **CBE JU vs. Horizon Europe: similarities & differences**
  - Call 2025 topic overview & structure
  - CBE specific requirements (incl. IKOP)
- Q&A
- Proposal preparation: Lessons learnt from past calls
- Call 2025 timing, tips & tricks and networking opportunities
- Q&A

# Table of contents

- The Circular Biobased Europe Joint Undertaking
- CBE JU vs. Horizon Europe: similarities & differences
  - Call 2025 topic overview & structure
  - CBE specific requirements (incl. IKOP)
- **Q&A**
- Proposal preparation: Lessons learnt from past calls
- Call 2025 timing, tips & tricks and networking opportunities
- Q&A



# Table of contents

- The Circular Biobased Europe Joint Undertaking
- CBE JU vs. Horizon Europe: similarities & differences
  - Call 2025 topic overview & structure
  - CBE specific requirements (incl. IKOP)
- Q&A
- **Proposal preparation: Lessons learnt from past calls**
- Call 2025 timing, tips & tricks and networking opportunities
- Q&A

## Call 2024:

- **559** proposals *created* in Portal
  - 125 remained in draft ('test' proposals...or missed submission deadline?)
  - 136 deleted by project coordinators
  - **298** proposals submitted
    - **30** proposals were invited for Grant Agreement Preparation ('**main list**')
    - **35** proposals were placed on the '**reserve list**'
    - 119 proposals were above thresholds, but did not make the 'main' or 'reserve' lists
    - 105 proposals were below threshold(s) (did not pass one or more of the evaluation threshold(s))
    - 9 proposals did not meet the Horizon eligibility and admissibility criteria

# Call 2024 submission analysis

*Would there be correlation (or even causation) between the creation time of a proposal and its success rate?*

	Created between...	Median creation date	Created in September
30 x Main list	24/04 - 03/09	18/06/2024	1 (3%)
35 x Reserve list	24/04 - 29/08	08/07/2024	0 (0%)
74 x above threshold(s), non-reserve	24/04 - 18/09	16/07/2024	17 (14,3%)
105 x below threshold(s)	25/04 - 18/09	07/08/2024	22 (20,1%)
9 x ineligible/withdrawn	22/05 - 15/09	26/08/2024	4 (44,4%)

- Positive **correlation** between early proposal creation and success rate
- Possible reasons for **causality**: more time to build a solid consortium and cover all requirements, especially for IAs + FLAGs
- **Early creation** = earlier awareness about elements blocking submission (IT tool provides warnings) = more time to solve them => **starting to work in the Portal asap adds value!**

# Call 2024 – evaluation outcomes

- **Call 2024: 289 evaluated proposals**
  - Using the 3 main Horizon Europe evaluation criteria: Excellence, Impact and Implementation
  - Each main criterion is further split into different evaluation *sub*criteria
  - Horizon Europe scoring principles are used
    - Max. score: 5 points per criterion, so max. 15/15 for whole proposal
    - Score per criterion is defined by how many (minor) shortcomings and/or weaknesses are identified by expert-evaluators

## Horizon Europe scoring principles

0

The proposal **fails to address the criterion** or cannot be assessed due to missing or incomplete information.

1

**Poor.** The criterion is inadequately addressed, or there are **serious inherent weaknesses**.

2

**Fair.** The proposal broadly addresses the criterion, but there are **significant weaknesses**.

3

**Good.** The proposal addresses the criterion well, but a number of **shortcomings** are present.

4

**Very Good.** The proposal addresses the criterion very well, but a small number of **shortcomings** are present.

5

**Excellent.** The proposal successfully addresses all relevant aspects of the criterion. Any **shortcomings** are **minor**.

**CBE JU  
evaluation  
thresholds: 3/5  
or 4/5 (impact)**

# Call 2024 – evaluation outcomes

- **Call 2024: 289 evaluated proposals**
  - Using the 3 main Horizon Europe evaluation criteria: Excellence, Impact and Implementation
  - Each main criterion is further split into different evaluation *sub*criteria
  - Horizon Europe scoring principles are used
    - Max. score: 5 points per criterion, so max. 15/15 for whole proposal
    - Score per criterion is defined by how many (minor) shortcomings and/or weaknesses are identified by expert-evaluators
- **Analysis of evaluation outcomes**
  - Check which are the most common shortcomings and weaknesses...
  - ...for all proposals, for RIAs, and for IAs (to check if there is a difference or not) is
  - No analysis for CSAs and Flagships, because (too) limited amount of proposals to draw statistically relevant conclusions

# Outcomes – all proposals

Rank	Most common weaknesses	Most common shortcomings
1	<b>Impa</b> – Expected outcomes in topic text	<b>Impa</b> – Expected outcomes in topic text
2	<b>Exc</b> – Methodology	<b>Impl</b> – Work plan (overall structure, tasks, milestones, deliverables,...)
3	<b>Exc</b> – ambition (going beyond the state of the art) + appropriate TRLs	<b>Impl</b> – Risk table incl. mitigation measures
4	<b>Exc</b> – is the proposal (fully or partially) in scope	<b>Exc</b> – Methodology
5	<b>Impl</b> – Work plan (overall structure, tasks, milestones, deliverables,...)	<b>Exc</b> – ambition (going beyond the state of the art) + appropriate TRLs

(**Exc** = Excellence, **Impa** = Impact, **Impl** = Implementation)

# Conclusions

- **All proposals**
  - ‘**Expected outcomes in the topic text**’ is the source of the most common shortcomings and weaknesses in all proposals, as well as IAs and RIAs (!)
  - 2-3/5 **most common weaknesses** are **linked to Excellence** (Methodology, ambition, in scope) => *you can't hide a bad idea...*
  - Top 5 **most common shortcomings** are the **same for all types proposals**, only in a different order
  - In particular, **Risk & mitigation measures** are top 3-4/5 in shortcomings in all types of actions

# Quid proposals scoring 13.5-14.5?

## Proposals scoring between 13.5 and 14.5/15

- In Call 2024: 85 such proposals (so statistically relevant)
- Often on the threshold of (not) getting funding
- By definition: no weaknesses, only shortcomings

*What would be the most common shortcomings for these - often very well-written - proposals?*

Rank	Most common shortcomings
1	<b>Impa</b> – Business model (only in IAs incl. Flagships)
2	<b>Impa</b> – Economic viability check (only in RIAs)
3	<b>Impl</b> – Work plan (overall structure, tasks, milestones, deliverables,...)
4	<b>Impa</b> – Communication measures
5	<b>Exc</b> – ambition (going beyond the state of the art) + appropriate TRLs

(**Exc** = Excellence, **Impa** = Impact, **Impl** = Implementation)

# Conclusions & considerations

- **Shortcomings in proposals scoring between 13.5-14.5**
  - 3/5 most common shortcomings are linked to impact...
  - ...although NOT to 'Expected outcomes in the topic text', where the most shortcomings and weaknesses are found in all proposals (!)
  - The top 2 most common shortcomings are i) economic in nature (business model and economic viability check), and ii) CBE JU-specific evaluation criteria

**CBE JU is an impact-driven programme**, and therefore has some very specific impact-related evaluation subcriteria: **business case, business model, business plan**

# Table of contents

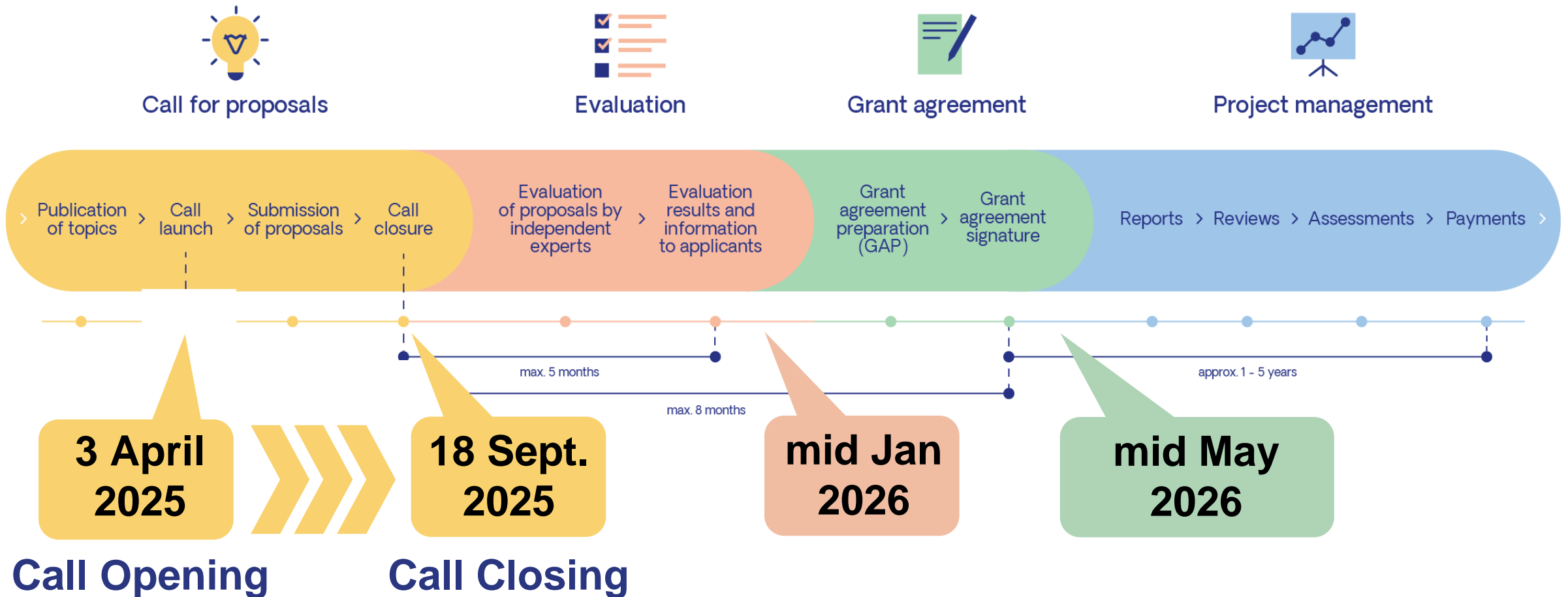
- The Circular Biobased Europe Joint Undertaking
- CBE JU vs. Horizon Europe: similarities & differences
  - Call 2025 topic overview & structure
  - CBE specific requirements (incl. IKOP)
- Q&A
- **Proposal preparation: Lessons learnt from past calls**
- Call 2025 timing, tips & tricks and networking opportunities
- Q&A

# Table of contents

- The Circular Biobased Europe Joint Undertaking
- CBE JU vs. Horizon Europe: similarities & differences
  - Call 2025 topic overview & structure
  - CBE specific requirements (incl. IKOP)
- Q&A
- Proposal preparation: Lessons learnt from past calls
- **Call 2025 timing, tips & tricks and networking opportunities**
- Q&A

Estimated project start = May-June 2026

# Proposal preparation



# Build a strong consortium

Are there any **competence** gaps in the consortium?

- Match elements of Topic (and Proposal) to individual partners in the consortium.

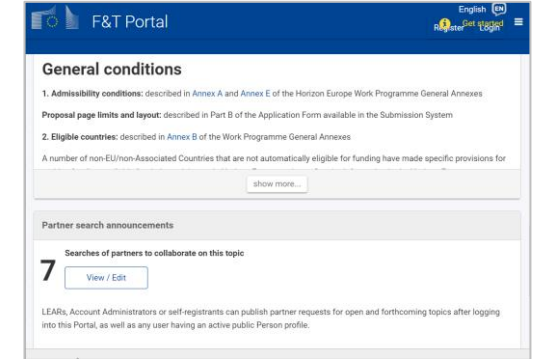


Use the **networking opportunities** offered by i) the **Funding & Tenders Portal**, ii) **CBE networking platform** and iii) **BIC member networking events**

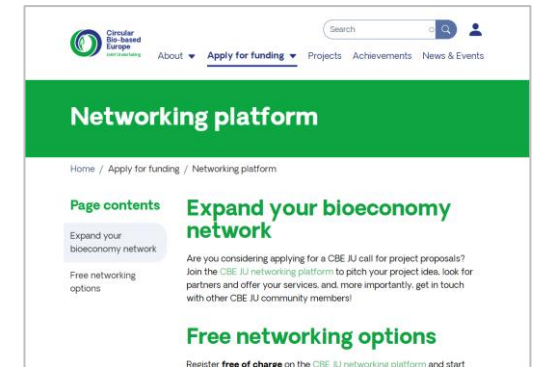
During proposal writing:

- Significant level of upfront **commitment** from all partners is crucial, as costs are not eligible before project start.
- High level of **confidence** between partners is key.
- Talk early about handling of **IPR** – these will need to be confirmed formally in the Consortium Agreement before signature of the Grant Agreement.

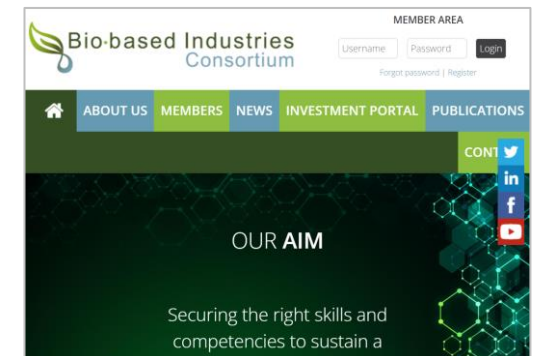
[ec.europa.eu/info/funding-tenders/opportunities/portal](https://ec.europa.eu/info/funding-tenders/opportunities/portal)



[cbe.europa.eu/networking-platform](https://cbe.europa.eu/networking-platform)



[biconsortium.eu](https://biconsortium.eu)



# CBE JU networking platform 2025



## Join the platform

## Register now!

Engage with other European bio-based economy actors  
Find the right partners for your proposal

# Two main sources of information

The screenshot shows the 'F&T Portal Online Manual' website. On the left is a navigation menu with items like 'Participant Register', 'Grants', 'Procurement', 'Prizes', 'Financial instruments', 'Working as an expert', and 'Help'. The main content area is titled 'Grants' and includes a 'My Area — User account and roles' button. Below this, there are two main sections: 'Applying for funding' and 'Evaluation & Grant signature'. The 'Applying for funding' section contains a flowchart with steps: 'Find a call', 'Find partners', 'Register an organisation', and 'Submit a proposal'. The 'Evaluation & Grant signature' section contains a flowchart with steps: 'Admissibility and eligibility check', 'Evaluation of proposals', 'Grant preparation', and 'Grant signature'.

<https://webgate.ec.europa.eu/funding-tenders-opportunities/display/OM/Online+Manual>

The screenshot shows the Circular Bio-based Europe website. The top navigation bar includes 'About', 'Apply for funding', 'Projects', 'Achievements', 'News & Events', and 'Documents'. A search bar and a user profile icon are also present. A dropdown menu is open under 'Apply for funding', listing options: 'Open calls for proposals', 'How to apply for funding', 'Closed calls for proposals', 'Manage your project', and 'Networking platform'. The 'Open calls for proposals' option is highlighted with a red box. Below the navigation, a large green banner features the text '2025 funding opportunities announced' and 'CBE JU has published its Annual Work Programme for 2025, including information about the next call for project proposals. €165 million will be dedicated to advancing competitive circular bio-based industries in Europe across 13 topics.' A 'Read more' link is provided. On the right side of the banner, there is a circular image of an industrial facility with wind turbines in the background.

<https://www.cbe.europa.eu/open-calls-proposals>  
(Incl. FAQ for applicants, link to networking platform,...)

Choc

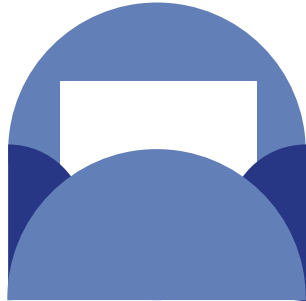
# CBE JU Info Day 2025



[cbe.europa.eu/events/cbe-ju-info-day-2025](https://cbe.europa.eu/events/cbe-ju-info-day-2025)

#CBEInfoDay

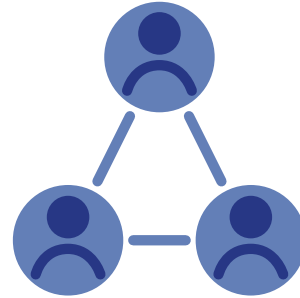
## More information



Subscribe to  
CBE JU newsletter



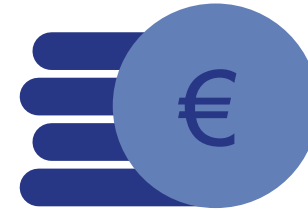
[cbe.europa.eu](https://cbe.europa.eu)



Become a **BIC**  
Member



[biconsortium.eu](https://biconsortium.eu)



Horizon Europe **Funding**  
and **Tender portal**



[europa.eu/!jH76RF](https://europa.eu/!jH76RF)

# Table of contents

- The Circular Biobased Europe Joint Undertaking
- CBE JU vs. Horizon Europe: similarities & differences
  - Call 2025 topic overview & structure
  - CBE specific requirements (incl. IKOP)
- Q&A
- Proposal preparation: Lessons learnt from past calls
- **Call 2025 timing, tips & tricks and networking opportunities**
- Q&A

# Table of contents

- The Circular Biobased Europe Joint Undertaking
- CBE JU vs. Horizon Europe: similarities & differences
  - Call 2025 topic overview & structure
  - CBE specific requirements (incl. IKOP)
- Q&A
- Proposal preparation: Lessons learnt from past calls
- Call 2025 timing, tips & tricks and networking opportunities
- **Q&A**



# Break

15.30 - 15.40





# CBE Showcase Project

Emad Yaghmaei  
Yaghma



# YAGHMA

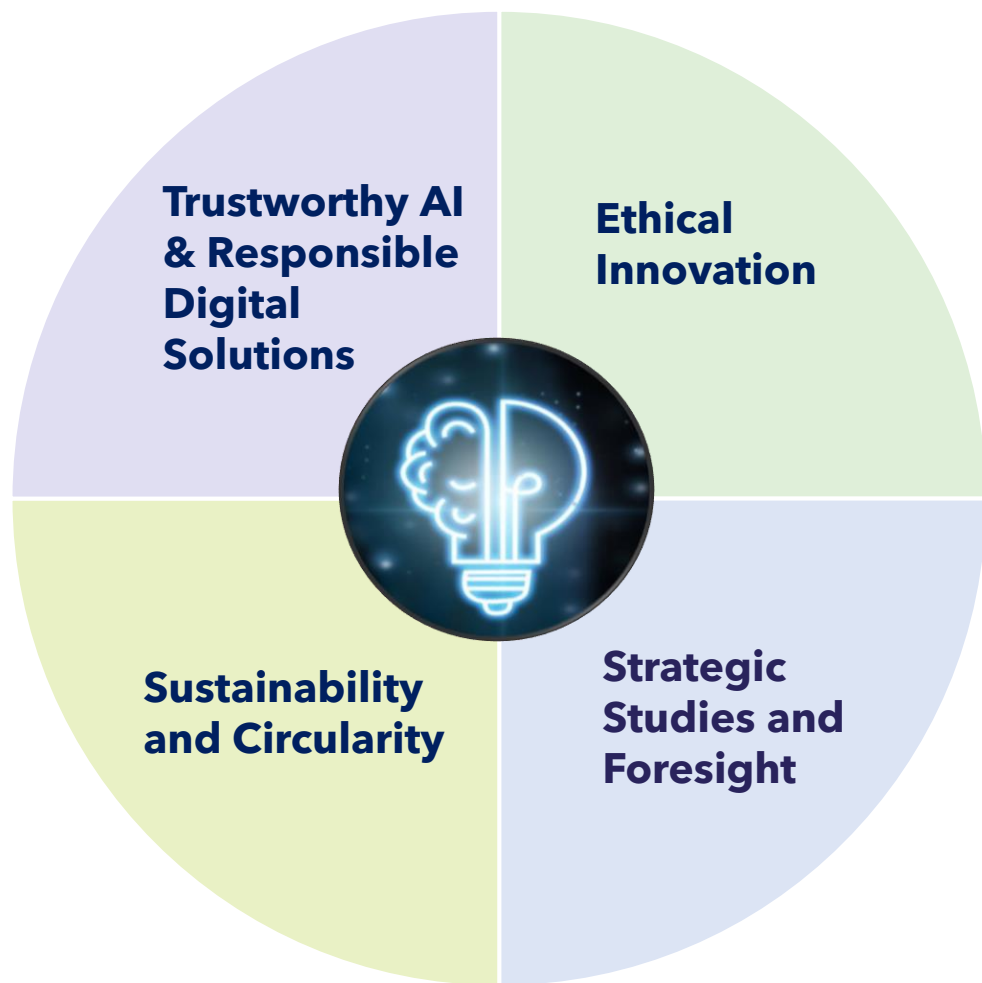
*"Accompanying innovation to build a better tomorrow"*

# Our mission

---

- Create trust and ensure that innovations in the private or public sectors drive positive changes for society
- Understand and support others' understanding of the complex changes that the digital and green transitions entail
- Do this from a socio-technical perspective

# Activity areas & services



Ethical assessment of innovation products and projects



Forecasting of scenarios and policy recommendations



Environmental sustainability and social life cycle assessment

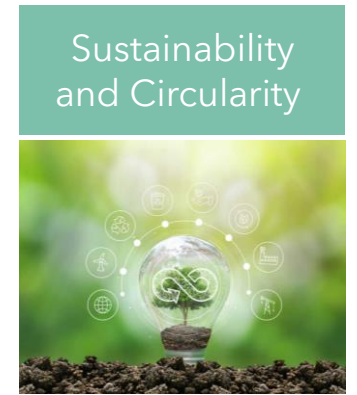


Frameworks and tools for AI impact assessment

# Sustainability and Circularity

## Environmental sustainability and S-LCA

- Digital screening tool to measure climate impacts of products e.g. bio-based products
- Circularity-as-a-service (CaaS) business models
- User Acceptance
- Life Cycle Assessment (LCA)
- Social Life Cycle Assessment (S-LCA)
- Environmental Impact Assessment



# Trustworthy AI and Responsible Digital Solutions

## Frameworks and tools for impact assessment

---

- AI impact assessment
- AI auditing
- AI Taxonomy (tailored and sectoral AI Taxonomy)

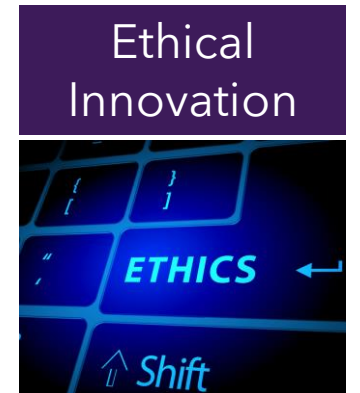


# Ethical Innovation

## Ethical assessment of innovation products and projects

---

- (Digital) Ethics auditing
- Ethics technology assessment
- Value monitoring
- Public perception radar



# Strategic Studies and Foresight

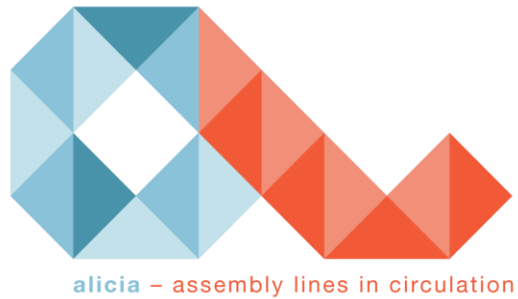
Forecasting of scenarios and policy recommendations

- System optimisation & system modelling
- Resilience analysis
- Monitoring ESG risks
- Materiality assessment

Strategic Studies  
and Foresight



# Our running EU projects



# Impact Identifier

- The Societal Concern Identifier aims to detect societal concerns related to emerging technologies.
- Specialized Large Language Models (LLMs) analyze a diverse range of textual sources—such as scientific articles, news reports, and policy documents—to identify and map these concerns effectively.
- Benefits:
  - **Policy and Research Insights:** Reveals gaps in current understanding, helping guide policy development and research priorities.
  - **Efficiency:** Offers a rapid, precise, and cost-effective alternative to traditional reports from advisory councils.
  - **Scalability:** Enables ongoing, periodic analysis to keep findings relevant over time.

## Example: 52 concerns identified for Extended Reality technology based on academic papers

### Cluster 1: Equitable Access and Regulatory Standardization in Emerging Extended Reality Technologies

1. **The Accessibility of Emerging Technologies** (Topic 41)
2. **Legal Standardization and Liability in Extended Reality Applications** (Topic 98)

### Cluster 2: Ethical and Privacy Challenges in Extended Reality

3. **Privacy and Security Challenges in the Ethical Adoption of Extended Reality Technologies** (Topic 32)
4. **User Privacy and Data Security Risks in Extended Reality Applications.** (Topic 20)
5. Ethical Implications of AI-Powered Applications in Medical Extended Reality (Topic 11)
6. Privacy and Security Challenges in the Emergent Metaverse Ecosystem (Topic 1)

### Cluster 3: Transformation of Social Networks and Community Dynamics

7. **The Transformation of Social Networks and Communication in the Age of Extended Reality** (Topic 29)
8. Community Building and Social Participation in Virtual Environments (Topic 12)
9. Psychological Impacts and Behavioral Addictions in Virtual and Online Environments (Topic 30)
10. Disinformation and Political Manipulation in XR and Social Media Platforms (Topic 56)
11. **Legal and Intellectual Property Challenges in Virtual Economies and XR Environments** (Topic 43)

### Cluster 4: The Influence of Extended Reality on Social Narratives, Identity, and Political Discourses

12. The Impact of XR on Social Narratives and Political Discourses in Contemporary Society (Topic 72)
13. The Blurring of Identity and Reality in Cyberspace (Topic 6)

### Cluster 5: The Impact of Virtualization on Team Dynamics

14. The Impact of the COVID-19 Pandemic on Virtual Interactions and Social Adaptation (Topic 3)
15. **The Challenges of Leadership and Team Dynamics in Virtual Environments** (Topic 77)

### Cluster 6: The Impact of Extended Reality and Digital Media on Child Development and Parental Concerns

16. Parental Concerns and Child Development Risks in the Age of Digital and Social Media Influence (Topic 55)
17. Impact of Extended Reality on Children's Visual and Cognitive Development (Topic 106)

### Cluster 7: Cultural, Ethical, and Communication Challenges in the Age of Digital Twins and Extended Reality (authenticity, accuracy and rights)

18. Cultural and Ethical Implications of Digital Twins in Heritage, Farming, and Product Design (Topic 21)
19. The Digitization and Preservation of Cultural Heritage in the Age of Extended Reality (Topic 8)
20. **The Impact of Digital Communication on Society and the Post-Truth Era** (Topic 66)

### Cluster 8: Mental Health and Psychological Risks in Immersive Extended Reality Environments

21. Social Exclusion and Mental Health Risks in Virtual Environments (Topic 90)
22. The Emotional and Psychological Impact of Immersive Virtual Experiences (Topic 91)

# Tracker Tools

The screenshot displays the 'Policy Tracker Search' interface. On the left is a dark sidebar with the 'Policy Tracker' logo and a search icon. The main content area is titled 'Policy Tracker Search' and features a search bar with the text 'Bio Textile' and a blue 'Search' button. Below the search bar, three search results are shown as cards. Each card includes a title, a URL, and a timestamp.

**Policy Tracker Search**

Policy Tracker Search

Search

Bio Textile

Search

Textile Exchange and TextileGenesis... Collaboration

<https://textileexchange.org/knowledge-center/webinar-archives/textile-exchange-and-textilegenesis-collaboration/>

2024-10-23T21:44:29.583991Z

Textiles & Fibres: An Industry Transforming

[https://rsb.org/wp-content/uploads/2020/10/RSB-Textiles-Report-WEB\\_compressed.pdf](https://rsb.org/wp-content/uploads/2020/10/RSB-Textiles-Report-WEB_compressed.pdf)

2024-10-23T20:39:39.719991Z

TextilesForSDGs.org

<https://textileexchange.org/knowledge-center/materials/textilesforsdgs-org/>

2024-10-23T21:44:26.835925Z

# Added value

---

- New business opportunities
- Proof of concept of digital tools we are developing in Bioeconomy field
- Collaboration with industry entities
- Building industrial bio-based Ecosystem to support decarbonisation, as one of our goal
- Market positioning

# DO's and DON'Ts

---

- DO's
  - Form a strong and multi-actor consortium (smaller consortium that could cover all needed aspects is preferable)
  - Articulate Roles and Responsibilities Clearly
  - Thinking about exploitation from the beginning
  - Paying attention to the 'destination' section, if any, and reflect it to the IMPACT section
  - Risk Management and Contingency Planning - Be careful with the Risk Management table
  - Peer-review your proposal, if possible with external, getting help from RVO

# DO's and DON'Ts

---

- DON'Ts
  - Skipping Detailed Work Plans
  - Underestimating Risks
  - Overlook Long-Term Sustainability and Impact
  - DON'T ignore the importance of protecting and managing IP generated during the project
  - DON'T overlook existing IP conflicts

# Contact details

---



Emad Yaghmaei  
[ey@yaghma.nl](mailto:ey@yaghma.nl)  
Senior Consultant



# Pitch Session





# Participant Pitches

Royal NLR

Van Hall Larenstein

Greencoverly

RUG

TU Delft

RIVM





Rijksdienst voor Ondernemend  
Nederland

## Meet the Royal NLR

- ✓ A research organization and knowledge institution, active in 26 countries
- ✓ NLR contributes key technological and scientific expertise to aerospace activities in the Netherlands and abroad (since 1919)
- ✓ Sectors: Aerospace vehicles, operations & systems
- ✓ We transfer knowledge between universities and industries
- ✓ We support government policy on space exploration
- ✓ Our solutions deliver innovations for production & commercialization

## Reach our premises at

Anthony Fokkerweg 2, 1059 CM Amsterdam, The Netherlands | Phone: +31  
(0)20 511 35 11

Voorsterweg 31, 8316 PR Marknesse | Phone: 088 511 4444

Email: [info@nlr.nl](mailto:info@nlr.nl) | Website: [www.nlr.nl](http://www.nlr.nl)



# Royal NLR: Netherlands Aerospace Centre (Nederlands Lucht- en Ruimtevaartcentrum)

Marianna Panou | Research & Development Engineer | Royal NLR

Info Session Circular Bio-based Europe (CBE)

9th April 2025



# We are interested in Bio-Based and Multi-Functional Composites for Aviation

The Royal NLR is contributing to a more sustainable aviation sector, by manufacturing and testing bio-based composites to prepare the pathway for qualification and certification in aviation.

## Bio-Based fibres & resins as promising alternatives to the conventional "oil-based" versions!

Fibres & Resins: PFA, Polyimides, Flax

Our add-value activities:

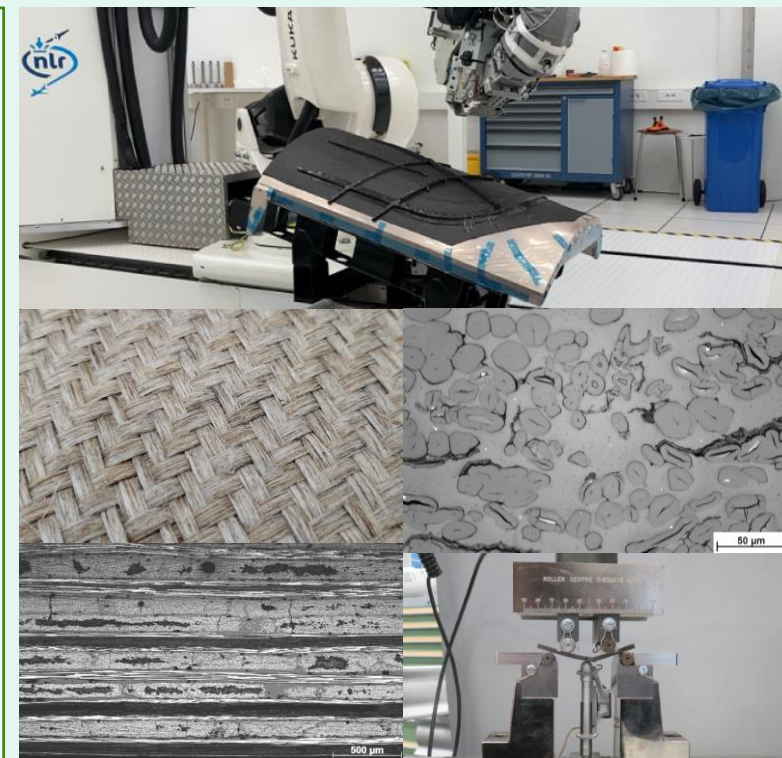
- > Manufacturing (coupons, sub-components, prototypes)
- > Material characterization (DSC, viscosity, cure kinetics)
- > Process development
- > Design & analysis
- > Testing & NDI inspection

Critical factors we trust to deliver:

- > Quality (porosity, consistency)
- > Availability (supply chain, climate change)
- > Cost efficiency (compared to conventional, upscaling)
- > Performance (mechanical, environmental, thermal)
- > Processability (safety, moisture, handling)

Applications:

- > Non-structural interior panels and fairings, packaging (transport boxes)

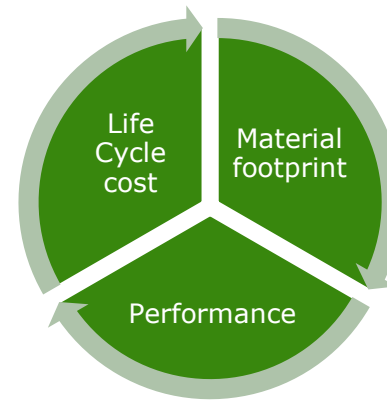




# We are looking for partners with expertise in ...

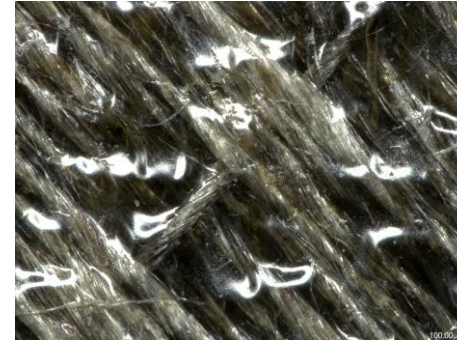
## Building the network to boost sustainability in the sky with your expertise in:

- > Bio-based polymer and fibre research (e.g., flax, hemp, lignin-based resins).
- > Advanced manufacturing processes for composites (e.g., autoclave, infusion).
- > End-user (OEM) validation and sustainability (LCA) assessments.



Source: <https://www.lufthansa-technik.com/aeroflax>

**We are pleased to meet you & listen to your ideas !**





Thank you for your attention !



Rijksdienst voor Ondernemend  
Nederland

Van Hall Larenstein University of  
Applied Sciences  
Leeuwarden

Contact: Martina Sura-de Jong  
martina.sura@hvhl.nl



**van hall  
larenstein**  
university of applied sciences

We are driven by Transitions:

- Adapting to climate change
- **Making AgroFood chain more sustainable**
- Strengthening sustainable water management
- Developing a sustainable living environment

## RestStream2Protein

Valorizing rest streams from  
food industry to produce high  
nutritional quality microbial  
biomass

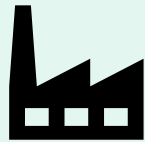


## Our unique added value for this topic is:

- Practise oriented research
- National network with industries
- Fermentation facilities
- Food development/food grade facility
- *In vitro* digestion system
- Gut microbiome sequencing and data analysis
- Platform "Eating for the Science" – intervention studies



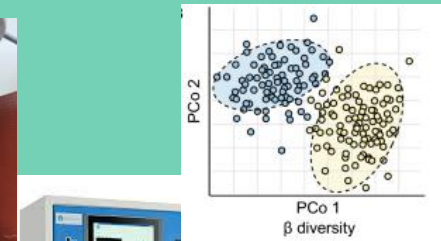
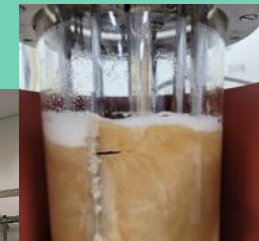
Production of microbial biomass



Valorization of rest streams



Nutrient-optimal food for human health





## We are looking for partners:

- Universities
- Research Institutions
- Start-ups or international network in industrial/biotech partners
- Health sector

## With expertise in:

- Upscaling fermentation
- Toxicology
- Mild food processing
- Food science
- Social-economic research, consumer acceptance
- Human health
- Nutrition research





Rijksdienst voor Ondernemend  
Nederland



**Paco Caparros  
Greencoverry BV**

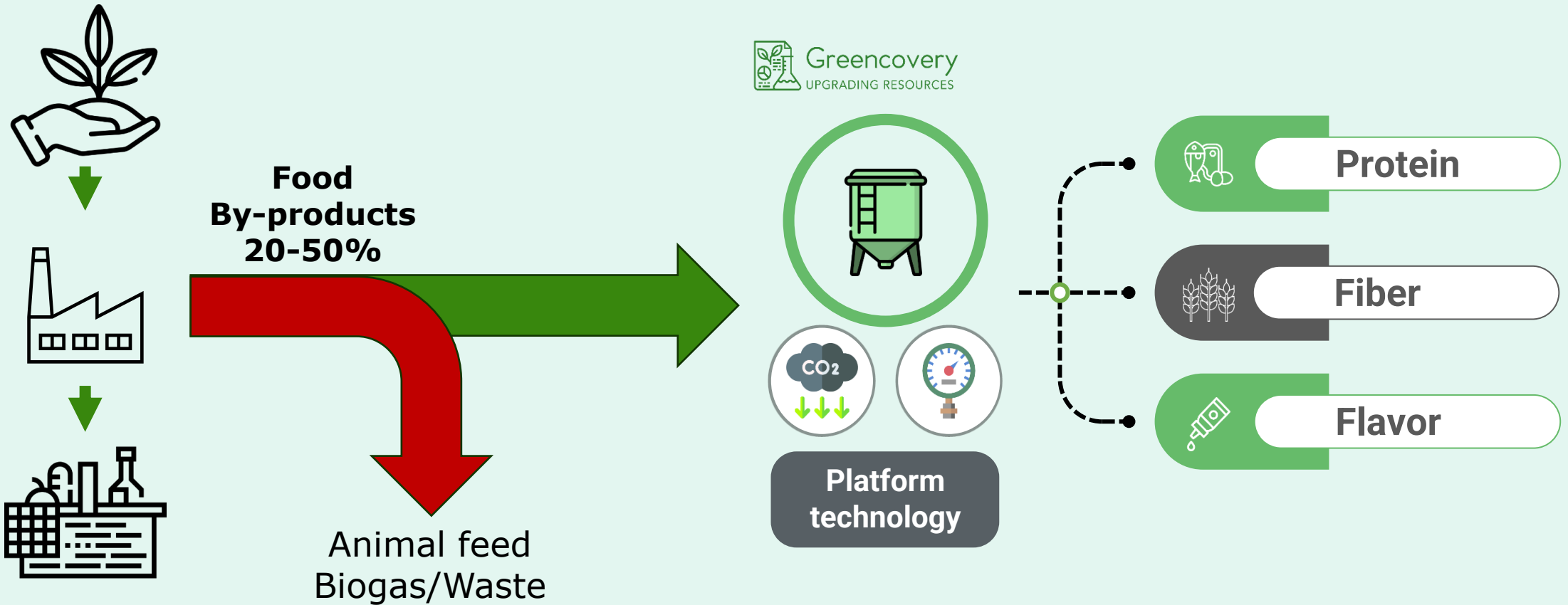
[paco.caparros@greencoverry.com](mailto:paco.caparros@greencoverry.com)

# Fighting Food Loss by Producing High- Functional, Great- Tasting Proteins

Platform technology to recover  
nutritional proteins from food  
by-products

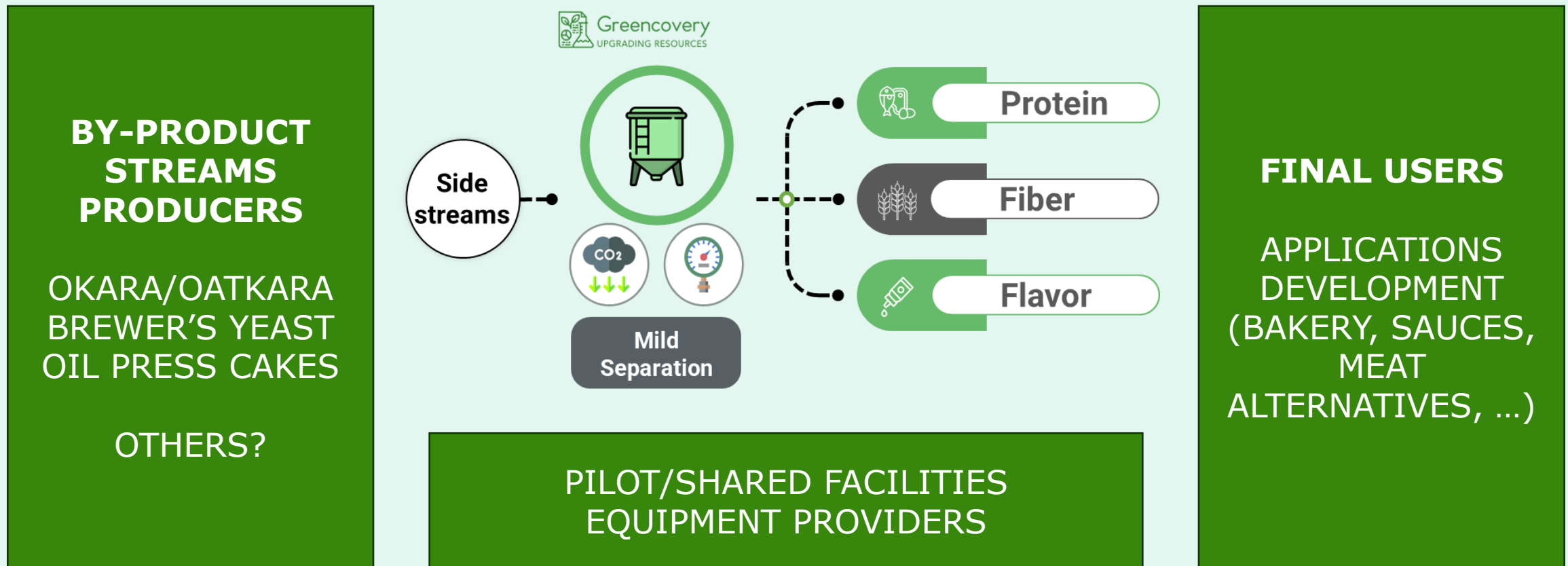


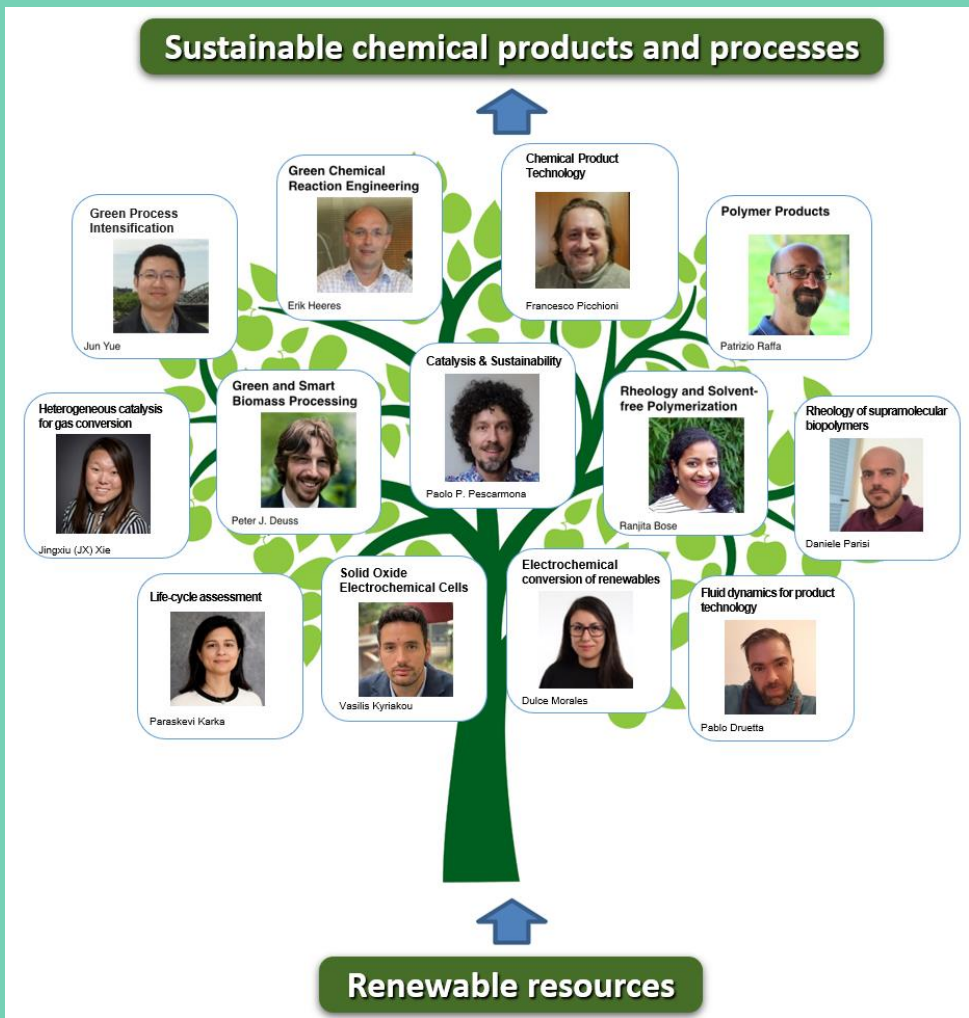
# IA-03. Scaling up nutritional proteins from alternative sources





# Complement our value proposition!





Rijksdienst voor Ondernemend  
Nederland



university of  
 groningen

faculty of science  
 and engineering

# Chemical Engineering



**Prof. Dr. Peter J. Deuss**

*Catalytic Processing of Sustainable Resources*

*p.j.deuss@rug.nl*

More information at:

<https://www.rug.nl/research/enteg/>

<https://www.rug.nl/research/green-chemical-reaction-engineering/>

<https://www.rug.nl/research/product-technology/>



# We are interested in ... Our unique added value for this topic / subtopic is ...

*Pretreatment and upgrading; Bio-based building blocks; Catalytic chemical reaction development; (Catalytic) Pyrolysis; Process intensification; Catalyst characterization; Mechanistic studies*

## Relevant Expertise:

- Thermochemical (Catalytic) Reaction and Process Engineering  
e.g., catalytic (hydro) pyrolysis, hydrogenations, reactor configuration and process integration
- Catalytic Upgrading Biomass Streams to Platform Chemicals  
e.g., catalytic conversion of (crude) sugars and lignin streams to furans, polyols, di-functionalized building blocks, phenolics
- Process intensification and integration  
e.g., multifunctional and structured flow (micro)reactors for efficient uses of tailored hydrogenation/photo catalysis

## Recent examples:

- Thermochemical Catalytic Hydroconversion of Technical Lignin to Low Molecular Weight Chemicals  
e.g. (Solventless) hydrotreatment to aromatics (JAAP 2024, 106813; Catal. Sci Technol. 2021, 5158, Biomass Bioenergy 2020, 105484)
- Selective Catalytic Dehydration and Hydrogenation of Carbohydrate Mixtures to Furanics and Aliphatic Diols  
e.g. GVL, HMTHF, THFDM, 1,6-HD and caprolactone (Angew. Chem. Int. ed. 2011, 7083, ACS Catal. 2021, 10467; Mol. Catal. 2024, 114364),



J. Xie



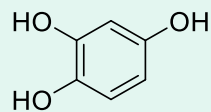
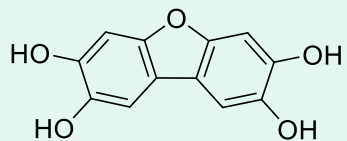
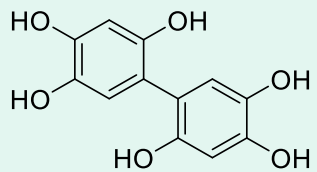
H.J. Heeres



P.J. Deuss



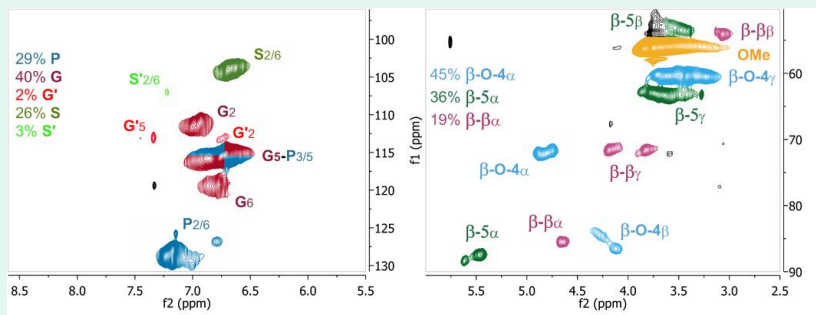
J. Yue



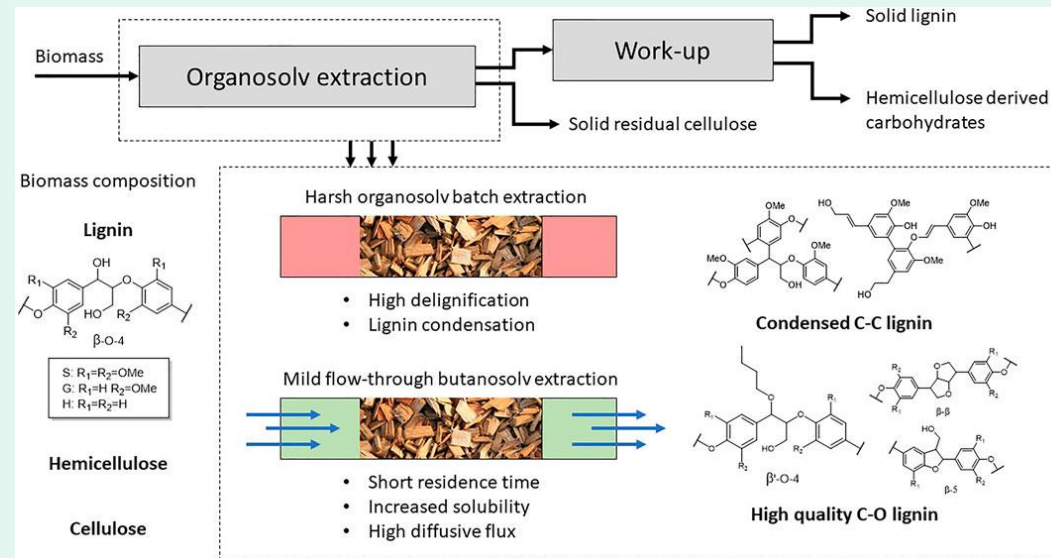
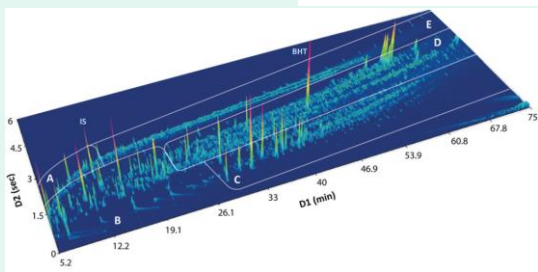
# We are looking for partners with expertise in ...

- > Looking for collaborating in projects on:
  - Fractionation of Biomass Components (Process Development etc.)
  - Lignin (Characterization, Modification & Depolymerization)
  - Thermochemical Catalytic Upgrading

## HSQC-NMR



## 2D-GCMS





Rijksdienst voor Ondernemend  
Nederland

---

# CELLULAIRE AGRICULTUUR NEDERLAND

---

## Upscaling alternative protein technologies

Precision Fermentation &  
Cultivated meat



[chantal@cellulaireagricultuur.nl](mailto:chantal@cellulaireagricultuur.nl)

[J.E.Flack@tudelft.nl](mailto:J.E.Flack@tudelft.nl)



# We are interested in ... Our unique added value for this topic / subtopic is ...

- > HORIZON JU-CBE-2025-IA-03  
Scaling-up nutritional proteins from alternative sources.
- > Research, education and shared-access upscaling facilities for precision fermentation and animal cell culture.
- > We have expertise in a broad range of technical subdisciplines related to alternative protein

## Cultivate at Scale

[Cultivate at Scale](#) in Maastricht, an independent spin-out of Mosa Meat and focused on cell culture bioprocesses.



## Biotechnology Fermentation Factory Ede

[Biotechnology Fermentation Factory](#) in Ede, empowered by NIZO and focused on precision fermentation



These facilities, developed in collaboration with the Cellular Agriculture Netherlands Foundation (CAN), Biotechnology Fermentation Factory Ede (BFF), NIZO Food Research, Cultivate at Scale (CaS), Mosa Meat, the Ministry of Agriculture, Fisheries, Food Security and Nature (LVVN) and the National Growth Fund, represent an important milestone in the development of sustainable food production.



## We are looking for partners with expertise in ...

- › We are a broad consortium and are always looking to engage with partners or lend our own expertise related to:
  - › - strain and cell engineering
  - › - bioprocess design
  - › - modelling
  - › - downstream processing
  - › - techno-economic assessment



TU Delft



Rijksdienst voor Ondernemend  
Nederland

# National Institute for Public Health and the Environment (RIVM)

Petra Hogervorst

[Petra.Hogervorst@rivm.nl](mailto:Petra.Hogervorst@rivm.nl)



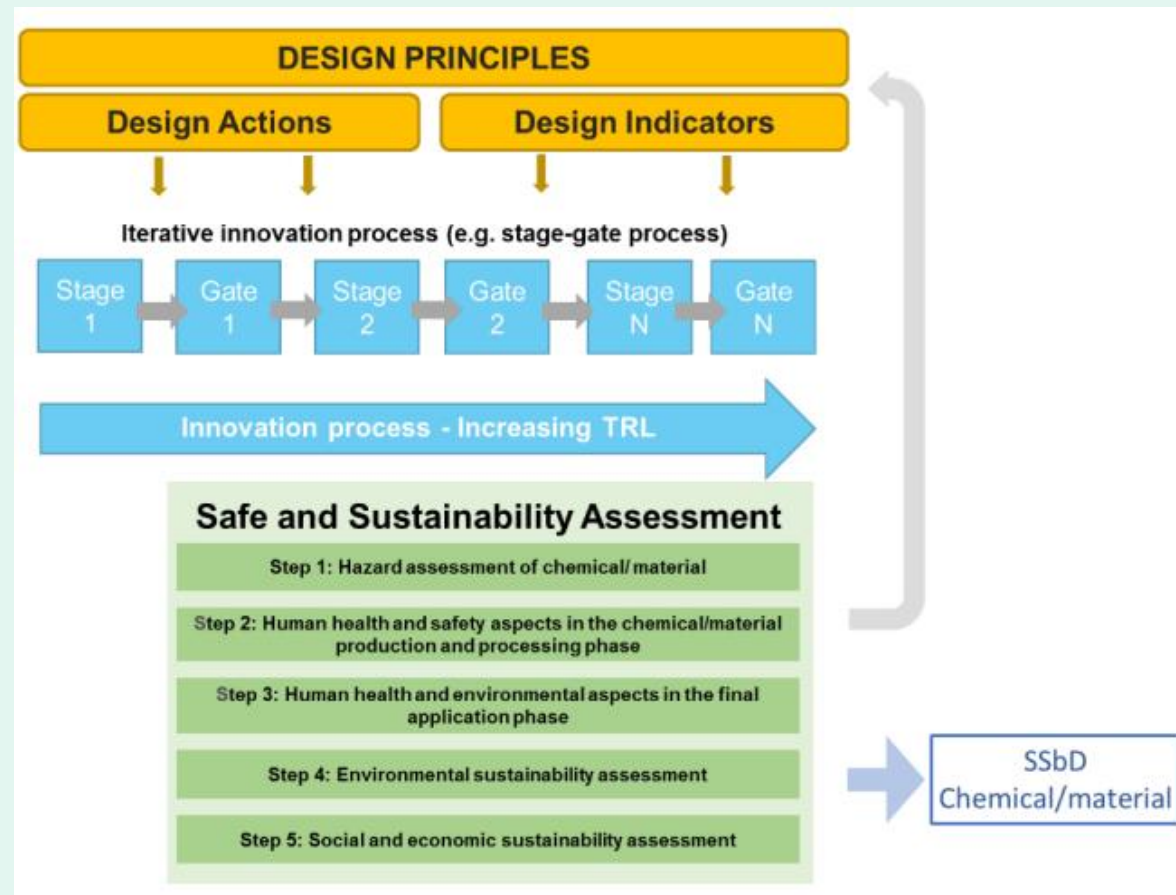
## Our unique added value for this topic is SSbD

- › RIVM has experience and expertise on implementation of the Safe and Sustainable by Design (SSbD) methodologies.
- › With the requirement of applying the SSbD framework, developed by the European Commission, in the proposals, RIVM can be an interesting consortium partner.
- › We have knowledge of:
  - **regulatory frameworks**
  - **policy advice**
  - **safety for human health and the environment**
  - **sustainability**
  - **in the context of biotechnology and chemical substances**



## We are looking for consortia that ...

- > Will work on development and scale up activities of bio-based and biotechnology related developments, and are interested in applying Safe and Sustainable by Design (SSbD) methodologies
- > Plan to add a WP or task on applying the SSbD framework, developed by the European Commission, in their proposal.





# Closing Remarks



Utrecht, April 9, 2025  
Rijksdienst voor Ondernemend Nederland



# THE KEY TO SUCCESS:

~~Ask the EC to fund your innovation~~  
Help the EU to solve its problems!





Cluster 6 Food, Bioeconomy, Agriculture & CBE JU

[Saske.hoving@rvo.nl](mailto:Saske.hoving@rvo.nl)

[Suraj.jamge@rvo.nl](mailto:Suraj.jamge@rvo.nl)

Cluster 6 Natural Resources, Environment

[Alexander.vandorssen@rvo.nl](mailto:Alexander.vandorssen@rvo.nl)

General cluster 6

[Horizon.cluster6@rvo.nl](mailto:Horizon.cluster6@rvo.nl)

Thank you!  
&  
Time for Drinks



Alexander



Saske



Suraj