



**Circular
Bio-based
Europe**
Joint Undertaking

CBE JU specific Call 2024 requirements

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Call 2024 specific requirements

- The requirements are **compulsory to ALL proposals**
- aim at ensuring that all funded projects will:
 - use **sustainably sourced feedstock** within SRIA scope
 - achieve **high standards of environmental sustainability and protection**
 - ensure **technoeconomic feasibility** and **good business opportunities**
 - **include the participation of all relevant actors**
 - consider the inclusion of **digital technologies, cross-disciplinary aspects & Social Sciences and Humanities (SSH)**
- Check the **work programme section on requirements** common to all topics

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

Specific CBE JU requirement	Type of action	Where to include it in Part B
Multi-actor approach (MAA)	IA, incl. FLAG RIA and CSA, when specified	Part B – 1.2 Methodology
Economic aspects: <ul style="list-style-type: none"> • Economic viability • Business case and business model • Business plan 	RIA IA, incl. FLAG FLAG	Part B – 2.2 Measures to maximise impact – D& E&C FLAG: Annex (Business plan)
Digital technologies	RIA and IA, incl. FLAG	Part B – 1.2 Methodology
Cross-disciplinary aspects and Social Sciences and Humanities (SSH)	All types of actions	Part B – 1.2 Methodology
Recommendations to stakeholders	IA, incl. FLAG	Part B – 3.1 Workplan and resources

Feedstock sourcing (eligibility condition)

All RIAs and IAs, including Flagships

- If the bio-based feedstock is processed in EU/EEA/EFTA countries, the bio-based feedstock comes from such countries or from neighbouring associated countries
- If the bio-based feedstock is processed in an associated country, the bio-based feedstock comes from the same country or from neighbouring EU/EEA/EFTA countries
- **Exception:** limited samples of bio-based feedstock for the purpose of testing processes or technologies

EFTA: European Free Trade Association: Iceland, Liechtenstein, Norway, and Switzerland

EEA: 27 EU countries, plus Iceland, Liechtenstein, Norway

Associated countries to Horizon Europe: see <https://europa.eu/!HN6KMv>



Feedstock sustainability requirements

All RIAs and IAs, including Flagships

- In line with the CBE JU SRIA feedstock scope (see Annex V)
- Respects **food first** and **cascading use** principles
- Surplus streams from agricultural biomass processing (carbohydrates, oils,...) allowed

Tips

- ✓ Describe the feedstock in your proposal's **Part B section 1.2. Methodology**
- ✓ **Include information** on how the feedstock is produced respecting local ecological limits, and ensuring protection, enhancement and restoration of biodiversity and ecosystems services
- ✓ As much as possible, the **feedstock should come from short supply chains**

Feedstock sustainability requirements

12 requirements for all RIAs and IAs, including Flagships on:

- Climate change mitigation
- Biodiversity protection
- Zero pollution ambition (air/water/soil)
- Water resources protection

Assessment of environmental performance ex-ante

All RIAs and IAs, including Flagships must include in the proposal:

- An **identification of the environmental critical issues** early on and the explanation on how the project will steer the development process in the right direction.
- An **ex-ante estimation of the environmental sustainability performance**, including **climate neutrality, resource efficiency, zero pollution and circularity** of the proposed processes/products, **compared to benchmarks**.
- If applicable, a preliminary assessment of the **carbon removal potential**.

Tips:

- ✓ Benchmark based on the best performing processes/products and well justified in the proposal
- ✓ Demonstrate how it will improve environmental performance

Assessment of environmental performance ex-post

All RIAs and IAs, including Flagships must include in the proposal:

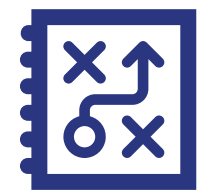
Ex-post assessment of the environmental sustainability and circularity of all the products and processes developed and of their improvements **compared with benchmark(s)**.

- **RIAs: dedicated task to use the early-stage data** to assess the potential improvements of the environmental performances of processes/products developed in the project.
- **IAs: dedicated WP or task to assess ex-post the environmental impacts and circularity** of the products or processes developed, using LCA methodologies, as part of the project.
- **Flagships: dedicated WP or task to fully assess the environmental impacts and circularity** of the developed products or processes, using life-cycle-sustainability assessment (LCSA) methodologies, as part of the project.

Multi-actor approach: who and why



Ensures adequate involvement of all **key actors in the value chains** relevant for the topic and the objective of the proposed project



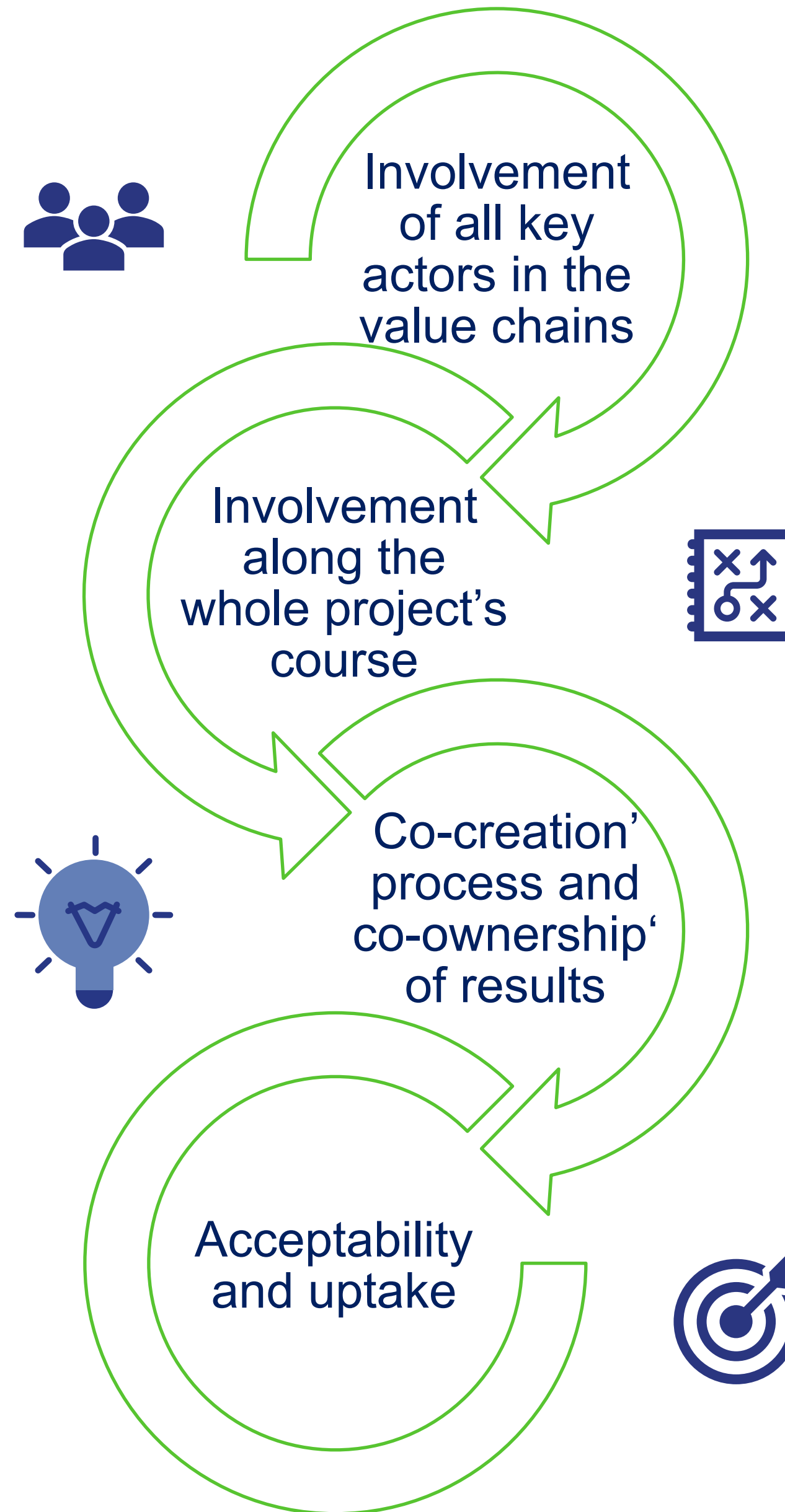
Involvement along **the whole project's course**: from project idea, planning to implementation, communication and dissemination of results and to demonstration



'Co-creation' process: the practical and local knowledge of key actors are used to develop solutions and create **'co-ownership' of results**



It results in **speeding up the acceptability** and uptake of new products, approaches and solutions developed by project



- ✓ **Relevant actors** are clearly **identified** (e.g. depending on the topic, primary producers, processing industry, end-users, brand owners, etc.).
- ✓ **Sufficient representation of relevant actors** consortium or/and with other forms of engagement.
- ✓ **Needs/ problems/challenges/opportunities** of key actors (from biomass supply to end-users) are considered from concept idea to implementation.
- ✓ **High-quality knowledge exchange activities, tools or/and mechanisms** enable co-creation and co-ownership of results (e.g., participative workshops, advisory bodies, platforms, etc.) are planned.
- ✓ **Dissemination and exploitation channels/ actions** addressing to the targeted actors are used.

Multi-actor approach in practice

“Project XXX will develop an **Advisory Board of Farmers** including regional authorities, food manufacturers, farmers, biorefinery owners, investors etc.”

“In order to ensure a good engagement of the key stakeholders, **project partners cover the whole value chain from the field to the table** (farmers, technology providers, manufacturers, environmental assessment experts, end users).”



“**6 interregional workshops** will be held during the project to connect with actors from other regions not directly involved in the project.”

“Project XXX consortium will integrate both primary producers and owners / providers of side streams **directly and through biomass suppliers in contact with project partners.**”



Economic viability check / business case, model and plan

IA – Flagship

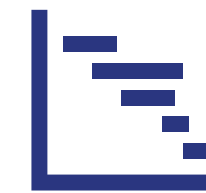
RIA



Economic viability check

A **check of the economic viability** of the products and processes to be developed (including an analysis of the value chain and potential market for the envisaged products)

IA



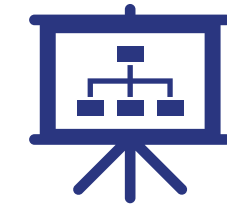
Business case

a **sound business case**; business case together with...



Business model

...the specifications of an **inclusive business model**, covering all actors of the value chain (from feedstock providers through to the final sellers)



Business plan

in addition, a **detailed preliminary business plan** in a separate Annex



How can ‘economic viability check’ be demonstrated in your proposal?

- ✓ Dedicated section on ‘economic viability’
- ✓ Considerations on the potential market of the products and/or processes to be developed and some quantitative information, for example, on the market size and trends
- ✓ Include an analysis of the value chain
- ✓ Include projections and estimates of costs of production/revenues of products or technologies when possible

A check of the economic viability of the products and processes to be developed

The diagram consists of two overlapping circles connected by curved arrows. The top circle contains the text 'A check of the economic viability of the products and processes to be developed'. The bottom circle contains the text '(including an analysis of the value chain and potential market for the envisaged products)'. A curved arrow points from the top circle to the bottom circle, and another curved arrow points from the bottom circle back to the top circle, forming a continuous loop.

(including an analysis of the value chain and potential market for the envisaged products)

To be included in business case, business model, business plan

Business case

- **Justification for investing in a project to generate a profitable business.**
 - ➔ Include **technical, economic, market, social, environmental and regulatory** aspects.
- **Evaluation of risks, costs and benefits** of the proposed project versus alternatives.

Business model

- **Description of how the commercial will generate revenues and value** for its customers & stakeholders.
 - ➔ Describe **costs and revenues**, involved **actors** and the relationships among them.
 - ➔ Include **data on the cost and revenue streams** but no time dimensions or specific actions.

Business plan

- **Description of how the business will be developed.**
 - ➔ Include **data on the cost structure, financing, planned revenues, a description of planned actions, their timing and the actors involved.**
 - ➔ Include **technical, economic, market, social, environmental and regulatory aspects based on data or assumptions** where data not available.
 - ➔ Describe **risks and contingencies.**

Digital technologies

Apply and/or **adapt existing/mature or novel digital technologies provided that they are instrumental** to achieving the project's outcomes and scope.

Areas for RIAs and IAs, including Flagships:

- Chemicals, materials, catalysts and process design & modelling (including bioinformatics)
- Process monitoring and optimisation
- Tracking and tracing
- Data analytics and data management

Additional areas for IAs, including Flagships:

- (Real-time) process monitoring and optimisation (including environmental performance)
- Predictive maintenance and plant engineering

Cross-disciplinary aspects and involvement of Social Sciences and Humanities

All types of actions:

- Foster **cross-disciplinarity** and consider the **social, economic, behavioural, institutional, historical** and/or **cultural dimensions**.
- Integrate contributions from the SSH **at various stages of the project**.
- Involve the required **participants and disciplines**.
- Consider **public awareness raising, social engagement** and **social impact** aspects.

Recommendations to stakeholders

IAs, including Flagships

- Plan an action on opportunities/challenges to be addressed for targeted **stakeholders**, including, where possible, national/regional stakeholders, investors and brand owners.
- Include **recommendations on how to improve the implementation and/or overcome hurdles and gaps** of current policies in the relevant fields.

Recommendations for your proposal

- **Follow the proposal template** to make sure all specific requirements are well included.
- **Read carefully the evaluation criteria and subcriteria** and make sure that expert evaluators will find all the information required to assess them.
- Choose **appropriate benchmarks** and show how for the products/processes you're developing improve the current environmental performance against the existing alternatives.
- **Provide evidence, references and/ or calculations** to support your claims.
- **Quantify** your objectives, performance improvement and expected outcomes.
- **Address all the elements** included in the definition of business case, business model, business plan and economic viability check.

Thank you for your attention!



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