

Where should bioeconomy innovation

go next?



Insights from C4B Experts



Funded by
the European Union

From Lab to Landscape



C4B's educated opinion on R&I priorities to boost the EU bioeconomy.

Developed through a multi-actor co-creation process involving:

- Primary producers.
- Researchers.
- Clusters.
- Industry representatives.



The 3 Priority Clusters

INFRASTRUCTURE & TECHNOLOGIES.

SUPPLY CHAINS & PROCESSES.

GOVERNANCE & CAPACITY-BUILDING.



Bioeconomy scaling requires technological, operational and governance transformation.

Why These Priorities Matter

C4B aims to accelerate rural development by strengthening the EU agri-food sector through fair and sustainable bio-based business models.

These R&I priorities were validated and ranked by stakeholders across multiple value chains

(wine, cereals, forestry, potatoes, apple, peatland).



CLUSTER 1



INFRASTRUCTURE & TECHNOLOGIES

Top Ranked Priorities:

- Pilot-to-industrial implementation & optimisation of sustainable extraction technologies.
- Modular & affordable biorefineries.

What this means?

Europe must move from demonstration to deployment, making bio-based solutions technically mature, scalable and regionally accessible.

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CLUSTER 2



SUPPLY CHAINS & PROCESSES

Top Ranked Priorities:

- Cascading use of biomass.
- Efficient pre-treatment & storage systems.



What this means?

Maximise biomass value, reduce waste, and strengthen regional supply chain sustainability and resilience.

CLUSTER 3



GOVERNANCE & CAPACITY-BUILDING

Top Ranked Priorities:

- Cooperative business models.
- Policy support to overcome regulatory & environmental barriers.



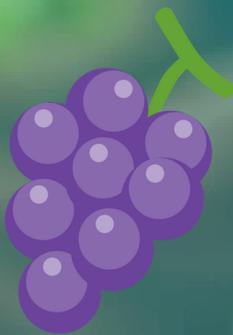
What this means?

Technology alone is not enough, governance, fairness and enabling policy frameworks are essential.

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These priorities reflect real bottlenecks in:

Wine • Cereals • Forestry • Potatoes • Apple • Peatland



Scaling bio-based innovation requires:

- Infrastructure + Supply Chain Optimisation + Governance Reform.
- Fair value chains must be embedded into future funding programmes.

C4B Open Calls 2026 will support up to 8 third-party use cases across Europe.

These pilots will:

- Replicate C4B business models.
- Integrate EU-aligned R&I priorities.
- Demonstrate scalability & replicability.
- Strengthen investment readiness.
- Enhance value-chain fairness.





C4B

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Europe's bioeconomy
strategy. >



Building fair, scalable and resilient bio-based value chains.

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