





A competitive bioeconomy for a sustainable future



CBE JU, building on the achievements of BBI JU

Vienna, 15 December 2021

Philippe MENGAL Executive Director

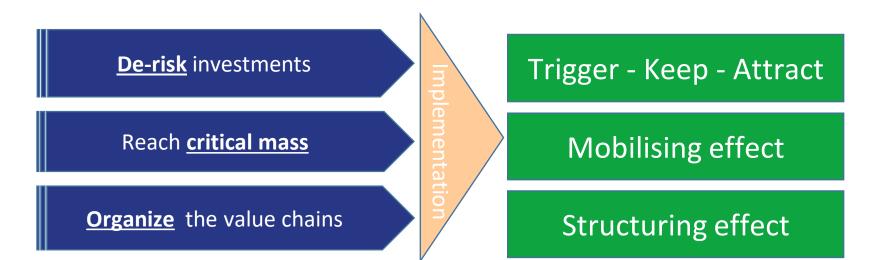


BBI JU was part of EU Bioeconomy strategy in 2012

<u>Public-Private Partnership (PPP)</u> between European Commission & BIC (Bio-based Industries Consortium)

- <u>BBI JU Budget</u>: € 3.7 bn (25% EU 75% BIC)
- Support R&I programme in Bio-based industries 2014-2024

European public-private partnership aimed at:





Expected impact for Europe by 2030* 2014 - A flavour of Green Deal



- Replacing 25% of oil-based chemicals by 2030
- 10 times more bio-based materials



- Creating up to 700,000 green jobs by 2030 especially in rural and coastal areas
- Diversify and grow farmers revenues



Reducing EU's dependency on the import of strategic raw materials, such as protein (by 50%), phosphorus and potassium (by 25%)



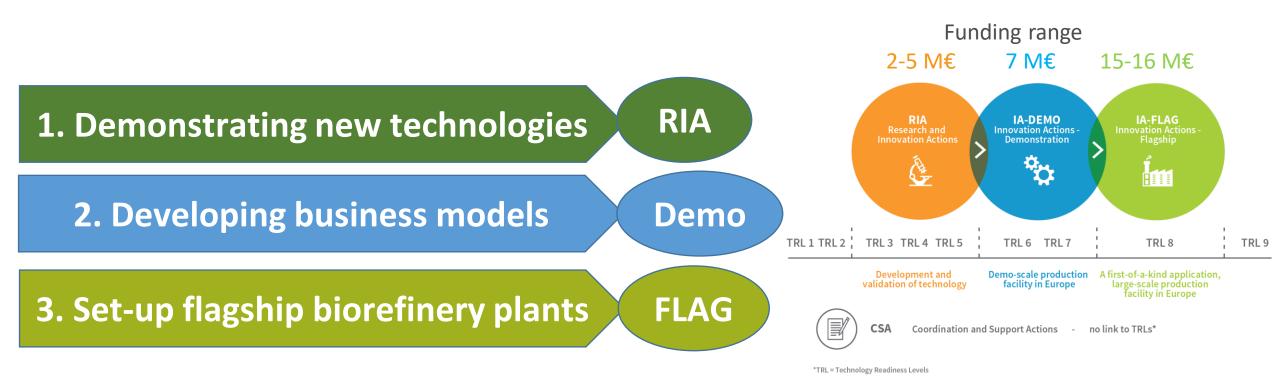
Reducing greenhouse gas emissions by 50%



BBI JU objectives

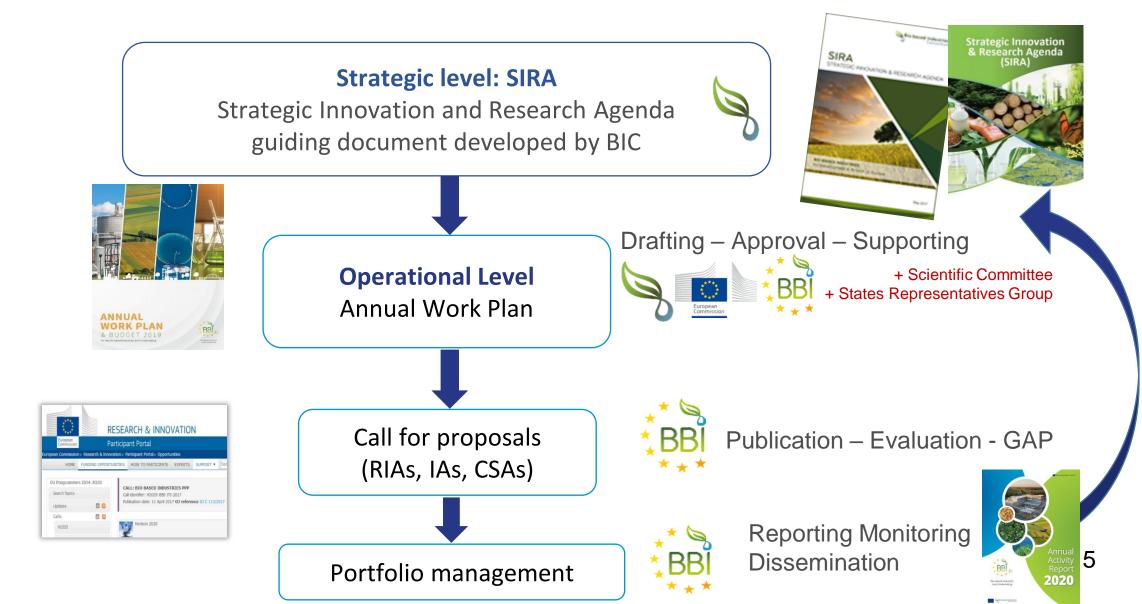
Develop sustainable and competitive bio-based industries in Europe, based on advanced biorefineries that source their biomass sustainably.

How? By implementing SIRA via call for proposal under H20020

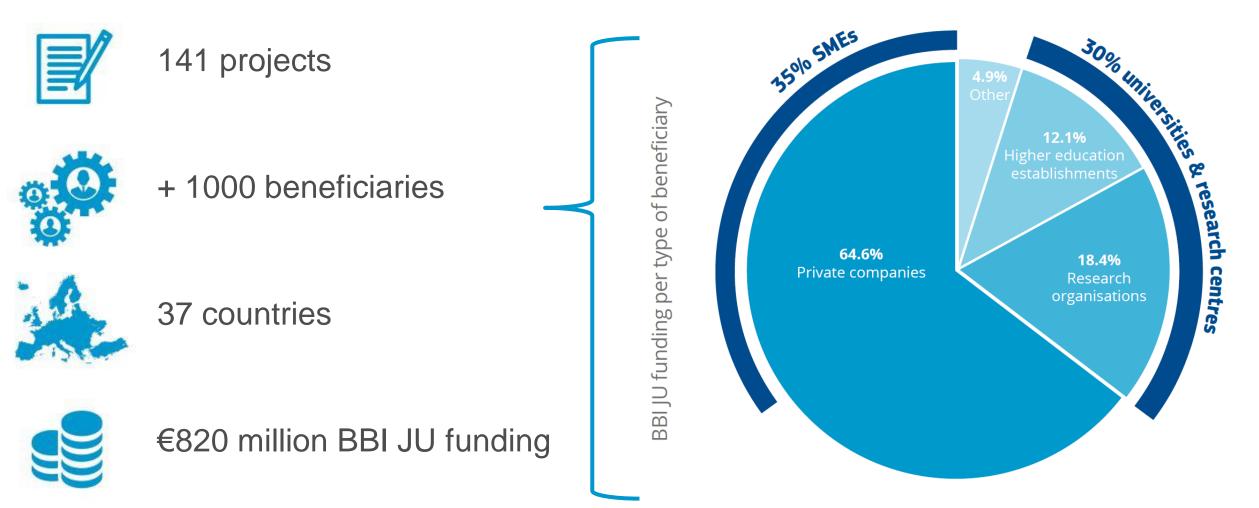




Efficient & agile programming process for maximal impact



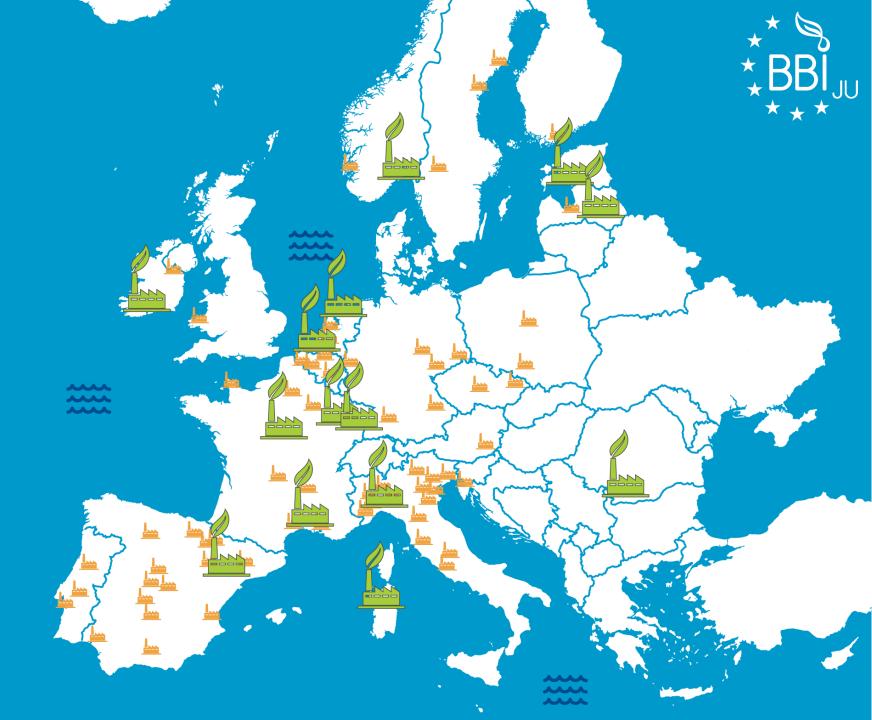
BBI JU projects – key figures Calls 2014-2020 (last BBI Call)

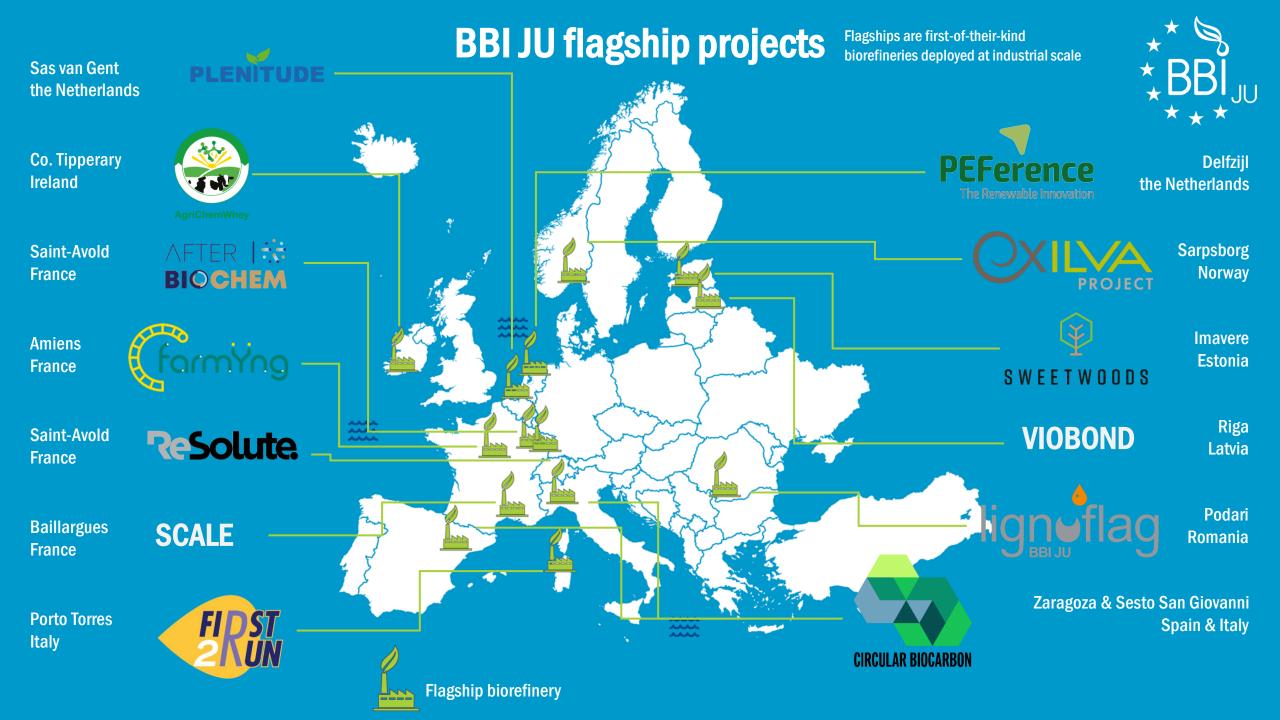


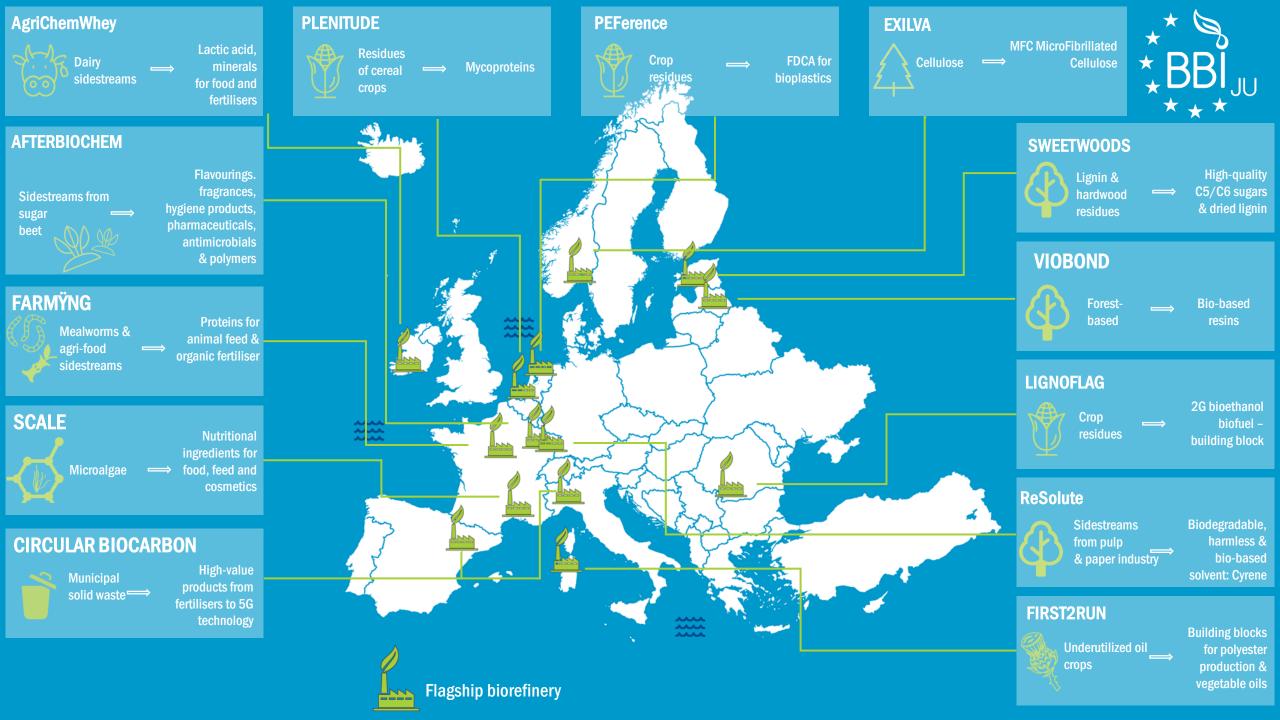
Demonstration plants are represented by the locations that receive the main investment in the project.



Demonstration plant







13 Flagship projects



3,500 direct jobs +10,000 indirect jobs



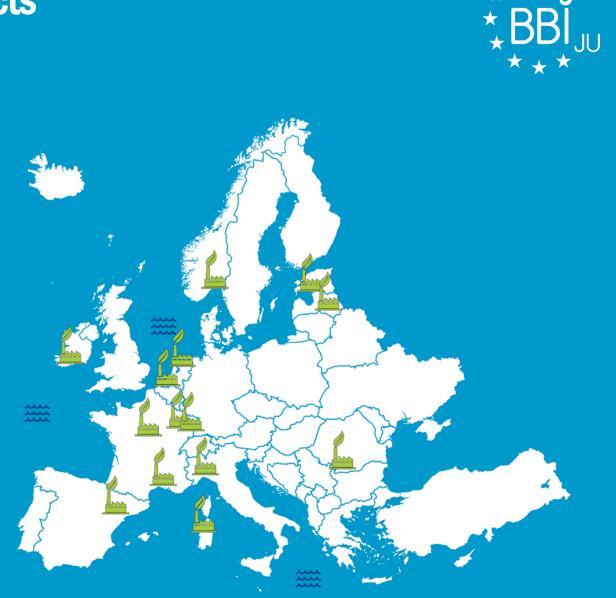
BBI JU grant: €250.5 million



Private investment: €1.45 billion

Leverage effect: 5.8 € private investment for €1 BBI JU grant

+600+ KT CO2 emission Savings



High replicability potential

EXILVA – Sarpsborg, Norway

CXIII

PEFerence – Delfzijl, NL



Flagship biorefinery



Flagship biorefinery Call 2020



SWEETWOODS - Imavere, Estonia



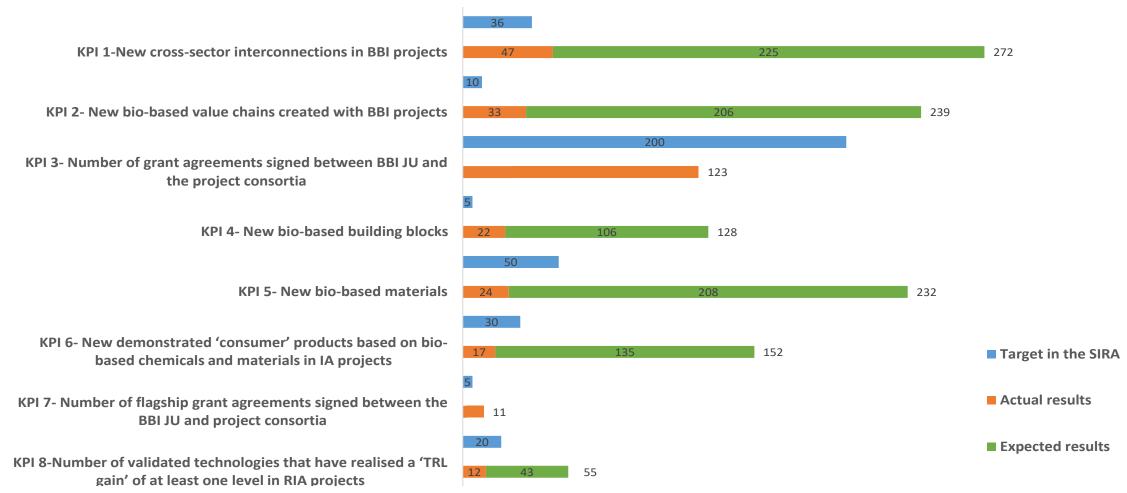


LIGNOFLAG - Podari, Romania

FIRST2RUN - Porto Torres, Italy



Project out come monitoring KPIs from SIRA* Trend confirmed with now "actual results" from finalised projects



*projects Calls 2014 - 2019



Key achievements, but ...

- **Specific KPIs** from SIRA well on track and monitoring works;
- Socio-economic & environemental impact in particular from DEMOs and FLAGs
- BBI JU is achieving its objectives with two main effects:

- **Structuring effect**: value chain-driven cooperation across sectors creating competitiveness

- **Mobilizing effect**: innovation-driven mobilising key stakeholders
- Financial leverage effect overall on track
- Well balanced portfolio showing an optimal value chains coverage but room for improvement for municipal waste valorisation @ high TRL
- High % of SME participation (with a key role)
- 30% funding goes to Universities and Research Organisations
- Improved geographic coverage thanks to coordinated actions



"We were not there yet" CBE JU under Horizon Europe

Huge and still risky investments

- ✓ Issues accessing private capital
- ✓ Remaining funding gaps in Demo and Flag (non bancable)
- Structuration is still ongoing: market and demand risks
- Some areas not yet covered enough
 - ✓ Farmer's participation integration in value chains
 - ✓ Full feedstock potential
 - ✓ Geographic coverage
- Maximise circularity Improve sustainability monitoring
- Positive contribution to biodiversity and safeguarding ecosystems
- Increase deployment capacity & synergies with other sources of funding
- Feedback to policy more coherent, supportive and stable regulatory framework
- Better tell the story of BioEconomy & Bio-Based products: Consumer awareness, education



From BBI JU to CBE JU

BBI JU 2014-2020	 Bio-Based Industries Joint Undertaking Part of Horizon 2020 programme €3.7 billion public-private initiative 142 projects, 1000+ unique beneficiaries across Europe & beyond Last BBI JU call for project proposals in 2020 Horizon Europe: new EU R&I funding programme (2021-2027)
CBE JU 2021-2027	 CBE JU - Circular Bio-based Europe Joint Undertaking Part of Horizon Europe - new EU R&I funding programme €2 billion public-private initiative building on the success of BBI JU Established by the Council of the EU on 19 November 2021 Entry into force 30 November 2021



SBA - Single Basic Act

SBA is the legal act establishing all institutionalised partnerships under Horizon Europe, including CBE JU

- The general part is common for all institutionalised public-private partnerships
- The specific part is tailored to individual partnerships
- 9 institutionalised partnerships are covered

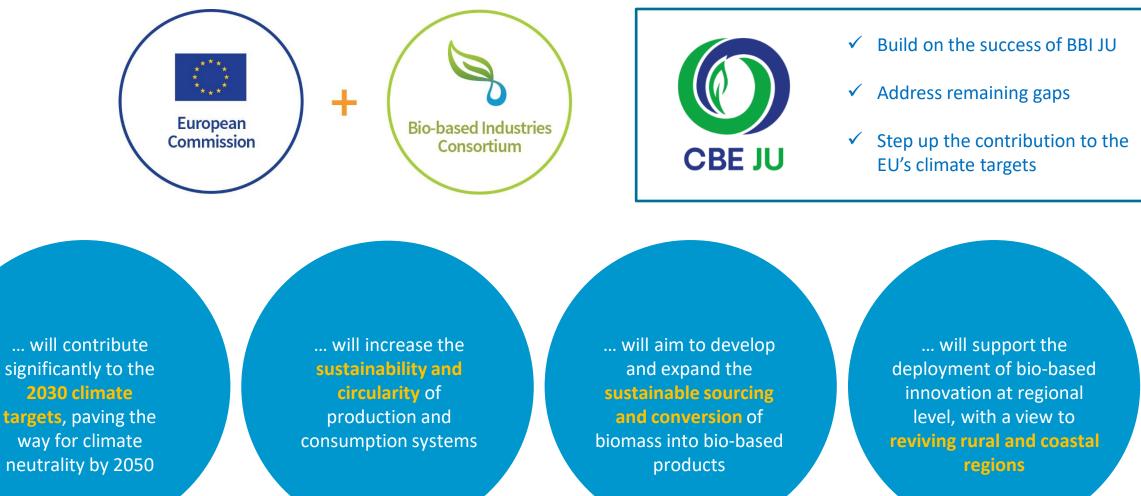
SBA adoption process

- The European Commission adopted the proposal in February 2021
- The European Parliament issued its positive opinion on 19 October 2021
- The Council of the EU adopted the Regulation on 19 November 2021
- CBE JU entered into force on 30 November 2021





CBE JU The European Green Deal





SBA objectives for CBE JU



Accelerate the **innovation** process and development of bio-based innovative solutions





Accelerate market deployment of the existing mature bio-based innovative solutions



Ensure a high level of **environmental performance** of bio-based industrial systems



CBE governance and bodies

Similar to BBI JU

- Governing Board (GB) 50% BIC 50% EC
- Executive Director and Programme Office
- Scientific Committee (15 members)
- States Representatives Group (MS and AC)

New / updated

- At least once per year: strategic (= expanded) meeting of the GB
- Deployment Group a third advisory body
 - One or more Deployment Groups to be established
 - Purpose: advise the GB on issues critical to market uptake of bio-based innovation; promote deployment of sustainable bio-based solutions
 - Output: provide recommendations on the issues related to the deployment of bio-based innovation upon a request from the GB or at their own initiative



SBA specific objectives for CBE JU



Reinforce the **integration** of biobased R&I processes in EU industrial value chains

пшп

Reduce R&I investment risk in biobased companies and projects Ensure that **environmental considerations** are taken into account in the development & implementation of R&I bio-based projects



Main tasks of CBE JU

Similar to BBI JU

New / updated

Programming of R&I activities of public & private partners (e.g. call for proposals)

Support high impact multidisciplinary R&I projects (i.e. project portfolio management + follow up impacts)

Promote communication and collaboration between R&I actors and industrial stakeholders Wider participation of involved actors (e.g. rural, coastal, urban areas and regions with unexploited potential; national and regional authorities)

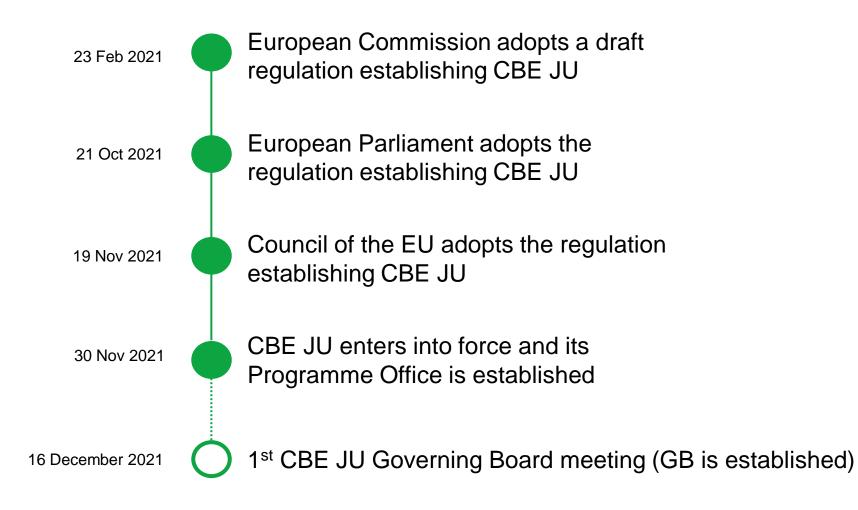
Focus and monitoring on environmental performance including biodiversity while respecting the principles of circularity, sustainability and planetary boundaries

Broader, more explicit communication mandate (e.g. target policy makers, industry, NGOs and consumers at large)

Financial contribution from private partner



Indicative timeline of CBE JU - 2021





Indicative timeline* of CBE JU - 2022





More information



Subscribe to CBE JU newsletter via www.cbe.europa.eu



Become a BIC Member via www.biconsortium.eu



Horizon Europe Funding and Tender portal: <u>https://ec.europa.eu/info/funding-</u> tenders/opportunities/portal/screen/home A competitive bioeconomy for a sustainable future



THANK YOU!

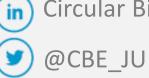
Contact us



info@cbe.europa.eu

www.cbe.europa.eu

Follow us



Circular Bio-based Europe Joint Undertaking

Subscribe to our newsletter

