

Oportunidades para la financiación de la Bioeconomía:
Bio-based Industries Joint
Undertaking

ORGANIZA





COORDINA Fundación Cesefor

COLABORA

Instituto Tecnológico Agrario de Castilla y León Fundación Patrimonio Natural de Castilla y León Ente Regional de la Energía de Castilla y León Centro Tecnológico Cartif Pilar Llorente Ruiz de Azua

BBI JU Project Officer

27 Octubre 2021





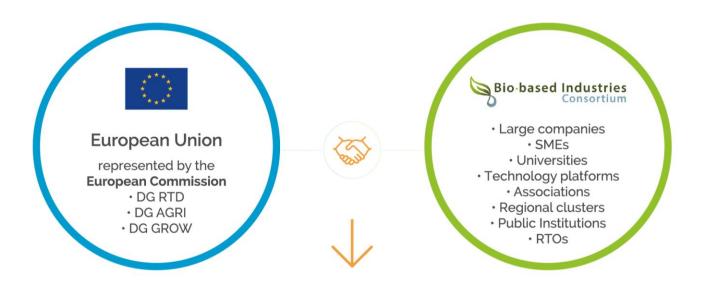
About Bio-based industries Joint Undertaking BBI JU

- <u>Public-Private Partnership (PPP)</u> between European Commission & Bio-based Industries Consortium (BIC)
- EU body operating under Horizon 2020 rules
- Funding collaborative R&I projects from technology development to full scale
- Part of the Bioeconomy Strategy in 2012: European Public-private partnership was needed to:
- De- risk investments
- Bring critical mass to the emerging sector
- Organize the value chains





BBI JU Governance



Bio-based Industries Joint Undertaking (BBIJU)

Governing Board (10 seats)

Responsible for the strategic orientation and the operations of the BBI JU and for the supervision of its activities

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Executive Director

Responsible for day-to-day management of the BBI JU in accordance with the decisions of the Governing Board

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Programme Office

Responsible for the management of the grant management lifecycle and for the implementation of specific activities to further consolidate BBI JU's vision and mission

States Representatives Group

(28 Member States + 10 Associated Countries)

Advisory body of the BBI JU, responsible for providing advice to the Governing Board on the programme progress and achievement of its targets

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Scientific Committee (15 seats)

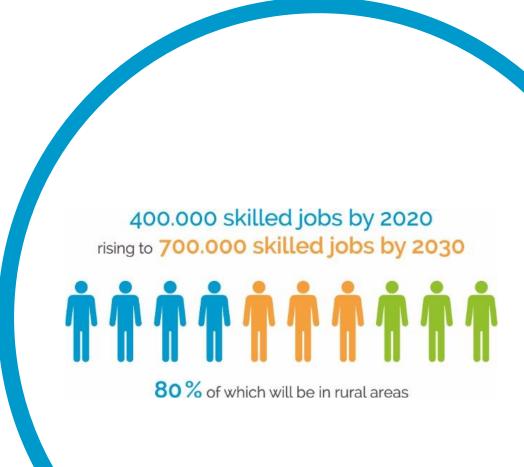
Advisory body of the BBI JU, responsible for providing scientific advice to the BBI JU, such as scientific priorities to be addressed



BBI JU objectives

Develop sustainable and competitive biobased industries in Europe, based on advanced biorefineries that source their biomass sustainably by:

- 1. Demonstrating new technologies to fill the gap in value chains
- 2. Developing business models integrating all economic actors along the value chain
- 3. Setting up flagship biorefinery plants deploying business models & technologies to keep investment in the EU





An updated SIRA in 2017 Strategic Orientations

SO1 Strategic
Orientation 1

Foster the supply of sustainable biomass to feestock to feed both existing and new value chains

SO2 Strategic
Orientation 2

Optimise efficient processing for integrated biorefineries through R&D&I

SO3 Strategic
Orientation 3

Develop innovative bio-based products for identified market applications

SO4) Strategic
Orientation 4

Create and accelerate the market-uptake of bio-based products and applications



BBI JU implementation



Strategic level: SIRA

Strategic Innovation and Research Agenda: guiding document developed by BIC











Operational Level

Annual Work Plan



Call for proposals (RIAs, IAs, CSAs)

Project management Reporting - Monitoring









Consultation:

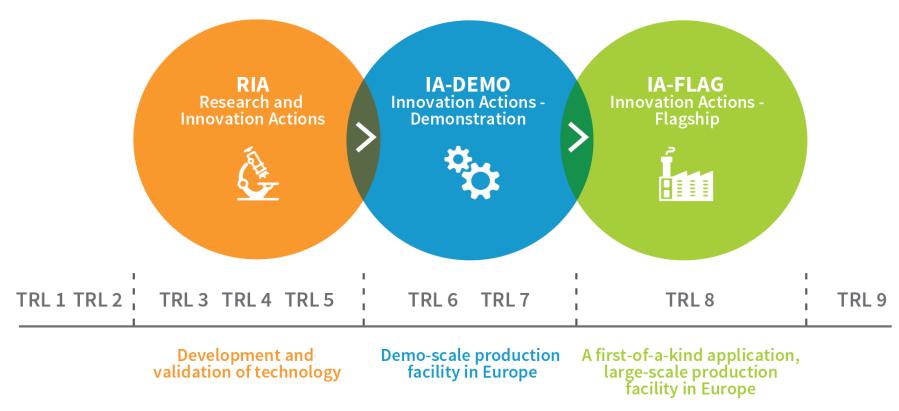
BBI JU Scientific Committee and States Representatives Group



- √ Publication
- ✓ Evaluation
- ✓ GAP



BBI JU types of actions





CSA

Coordination and Support Actions -

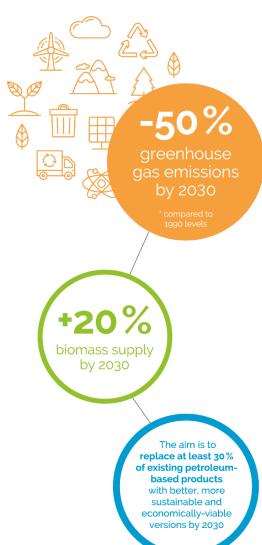
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Expected impact for Europe by 2030

- Replace 25% of oil-based chemicals
- 10 times more bio-based materials
- Increase biomass supply by 20%
- Increase mobilisation of unused sources by 25%
- Develop potential of agro-food "waste" & forestry residues
- Diversify and grow farmers' revenues
- Create 700,000 jobs 80% in rural areas
- Reduce EU's dependency on import of fossil raw materials, protein (- 50%) and P – K (- 25%)
- Shift to bio-based economy → average 50% GHG emission reduction

BBI JU AIMS FOR:





Participation & funding rates per action

Type of participant	RIA	IA Demo / Flag	CSA
Large Industries	/	70%	/
SMEs	100%	70%	100%
Universities	100%	100%	100%
RTOs – non profit, legal entities	100%	100%	100%



BBI JU key figures Call 2014-20



142 projects



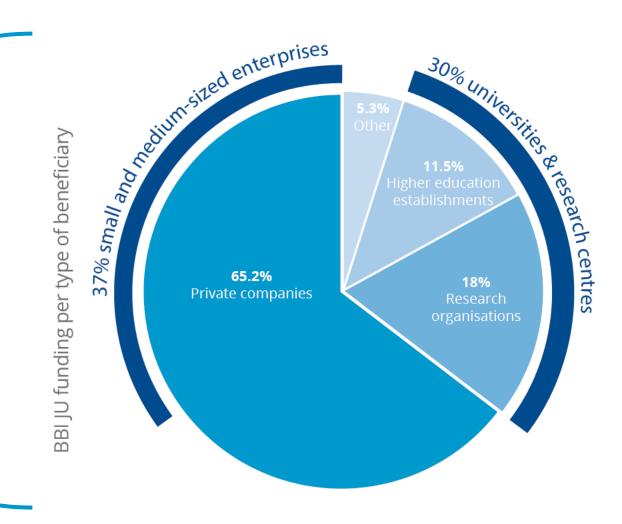
1055 beneficiaries



€822 million BBI JU funding



39 countries



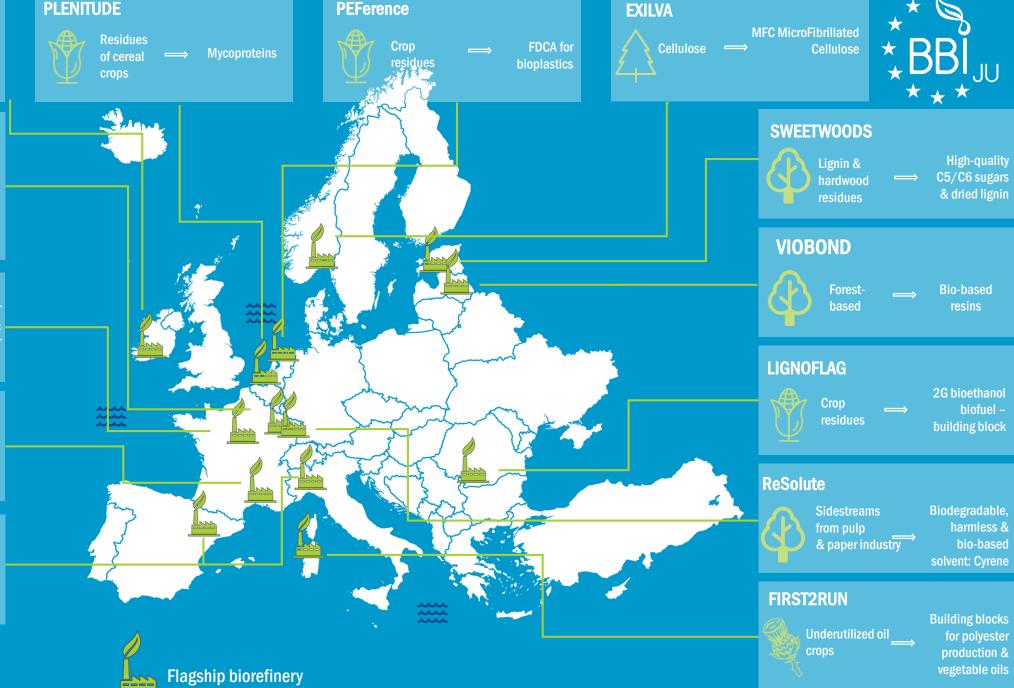
BBI JU project portfolio

Origin of the main source of feedstock calls 2014 + 2015 + 2016 + 2017 + 2018 + 2019 + 2020

Origin of feedstock	RIA	DEMO	Flagship
Agri-based:			
Forest based: • Lignin & wood residues • Pulp & paper industry side streams Cellulose			
Organic waste and CO ₂ • OFMSM • Bio-plastics • Industrial waste streams			
Aquatic(Micro and macro) algaeFish & seafood by products			
Other feedstock with bioconversion			

SO4	Policy, regulations and standardization	Consumer awareness of the benefits of the bio-based products	Knowledge gathering and networking
CSA			

AgriChemWhey PLENITUDE Lactic acid. sidestreams for food and **AFTERBIOCHEM** Flavourings. fragrances, Sidestreams from hygiene products, & polymers **FARMŸNG Proteins for** Mealworms & animal feed & agri-food organic fertiliser **SCALE Nutritional** ingredients for → food, feed and Microalgae **CIRCULAR BIOCARBON** High-value products from solid waste ---fertilisers to 5G technology





Spanish participants in BBI JU projects



SPAIN - España

Spain has the highest participation rate in BBI JU projects, both in terms of funding received and the number of beneficiaries. 89 projects with Spanish participation prove the country's high biomass potential. These numbers confirm the importance of the bio-based industries sector in creating jobs and revitalising rural areas.







± 209 000
people working in the
bio-based industries (2017)



www.bbi.europa.eu





Some projects with Spanish participation

- BeonNAT (RIA) Innovative value chains from tree and shrub species grown in marginal lands as a source of biomass for bio-based industries Coordinator: CIEMAT. Spanish participants include: Fundacion Centro de Servicios y Promocion Forestal y de su Industria de Castilla y Leon, AIMPLAS, Contactica, Idoasis, El Jarpil, Envirohemp, Tolsa, Asociación para la certificación forestal, Laboratorios Maverick
- **UP4HEALTH (DEMO)** Sustainable and cost-effective production process for the upcycling of olive, grape and nut by-products into four natural and healthy ingredients for nutraceutical and cosmetic applications Coordinator: Isanatur. Spanish participants: Contactica, Laboratorios Amerex, Moreno Ruiz Hermanos, Indukern, Universidad de Vigo.
- BIOSEA (RIA) Innovative cost-effective technology for maximizing aquatic biomass-based molecules for food, feed and cosmetic applications Coordinator: Asociación de Investigación de la Industria Textil. Spanish partici pants: Centro Nacional de Tecnología y Seguridad Alimentaria, Fundación Centro Tecnológico de Acuicultura de Andalucía, Biopolis SL, Complementos de Piensos Compuestos SA, Dibaq Diproteg SA, Soria Natural SA
- **B-FERST (DEMO)** Bio-based FERtilising products as the best practice for agricultural management SusTainability. Coordinator: Fertiberia. Spanish participants: Universidad de Leon, FCC Aqualia, AgriSat Iberia
- CIRCULAR BIOCARBON (FLAG) Turning carbon of complex organic urban waste streams into value-added products.
 Coordinator: Urbaser SA, Socamex, Graphenea Semiconductor SL, Fundacio Universitaria Balmes, Universidad de Valladolid
- More info: https://www.bbi.europa.eu/projects



From BBI JU to CBE JU

BBI JU 2014-2020

- Bio-Based Industries Join 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

*legislative proposal

- 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
- Green light from the Commission in February 2021
- In legislative process at the European Parliament & Council
- Expected entry into force before end 2021









- Build on the success of BBI JU
- Step up the contribution to the EU's climate targets



It will contribute significantly to the 2030 climate targets, paving the way for climate neutrality by 2050



It will increase the sustainability and circularity of production and consumption systems



It will aim to develop and expand the sustainable sourcing and conversion of biomass into biobased products



It will support the deployment of biobased innovation at regional level, with a view to reviving rural and coastal regions



- ? Timing of new calls?
- ? When will more information be available?



✓ Subscribe to BBI JU newsletter via www.bbi.europa.eu



Become a BIC Member via www.biconsortium.eu



✓ Horizon Europe

Funding and Tender
opportunities Portal

¡Gracias!

