



Bio-based Industries
Joint Undertaking

BBI JU: promoting a sustainable bio-based industry in Europe

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Workshop – 16 June 2021



Table of contents

- Bio-Based Industries Joint Undertaking (BBI JU):
 - Overall concept & structure
 - Funding for different projects & organisations
 - A high-impact initiative
- The road to Circular Bio-Based Europe (CBE)



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 H2020

1. Demonstrating new technologies

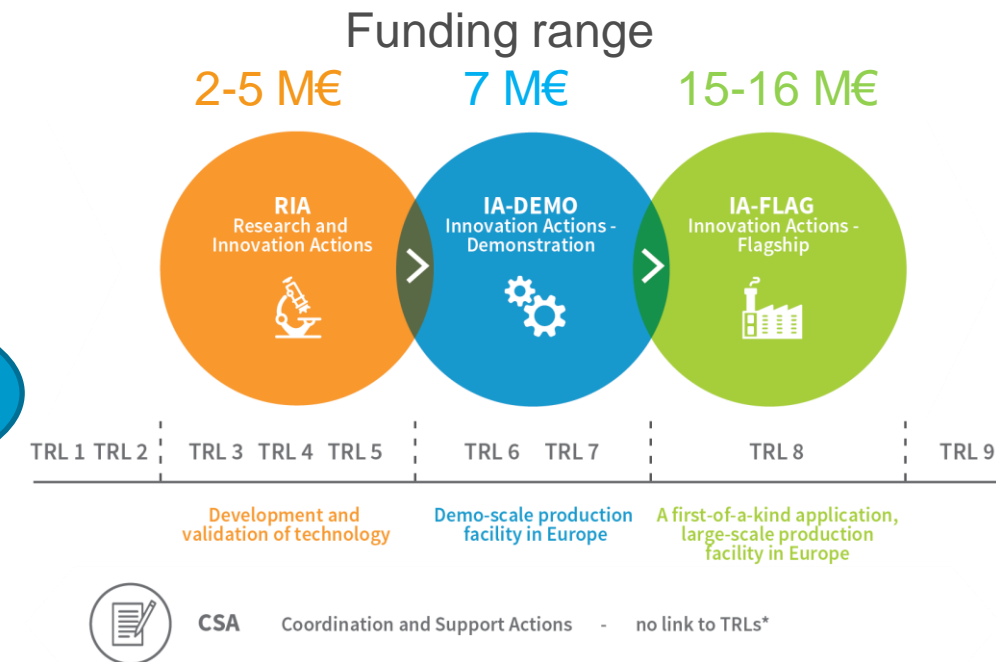
RIA

2. Developing business models

Demo

3. Set-up flagship biorefinery plants

FLAG



*TRL = Technology Readiness Levels



BBI JU key figures Call 2014-20



123 projects (+18 Call 2020)



924 beneficiaries

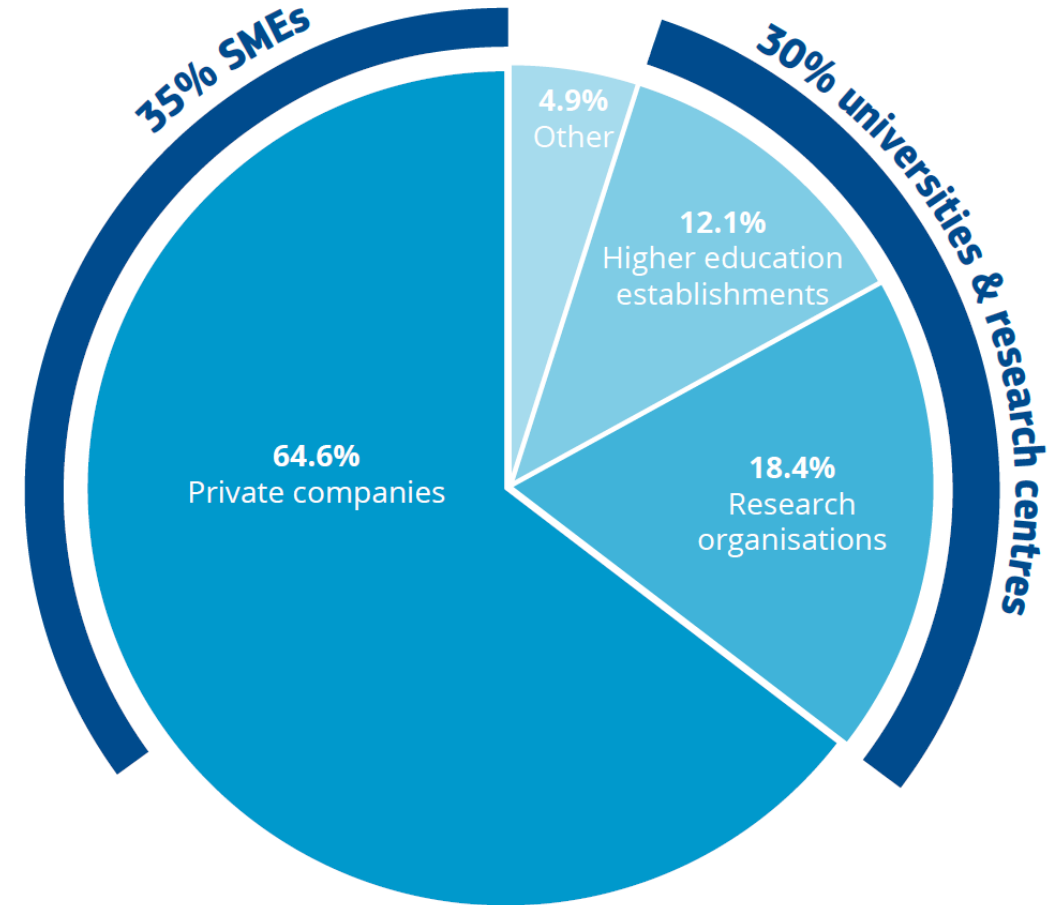


€706 million BBI JU funding
(+ €104,5 million Call 2020)



37 countries

BBI JU funding per type of beneficiary



BBI JU flagship projects



Sas van Gent
the Netherlands



Co. Tipperary
Ireland



AgriChemWhey

Saint-Avold
France



Amiens
France



Saint-Avold
France



Porto Torres
Italy



Flagship biorefinery



Expected flagship
biorefinery Call 2020



Delfzijl
the Netherlands



Sarpsborg
Norway



SWEETWOODS

Imavere
Estonia



Strážske
Slovakia



Podari
Romania



Towards a European Green Deal: promoting a sustainable and circular bio-based sector



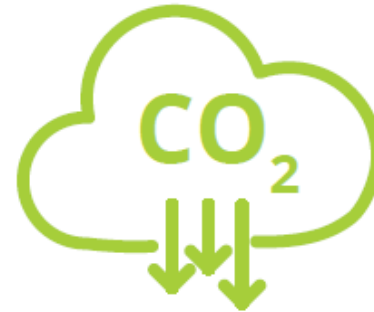
Replacing 25% of oil-based chemicals by 2030



Creating up to 700,000 green jobs by 2030 especially in rural and coastal areas



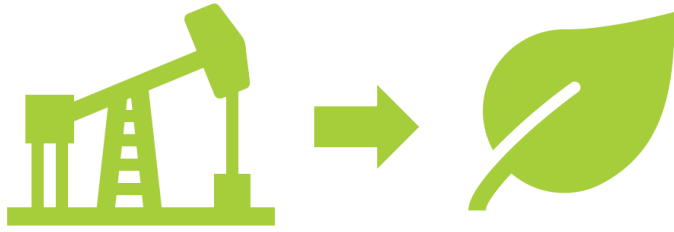
Drastically reducing EU's dependency on the import of strategic raw materials, such as protein (by 50%), phosphorus and potassium (by 25%)



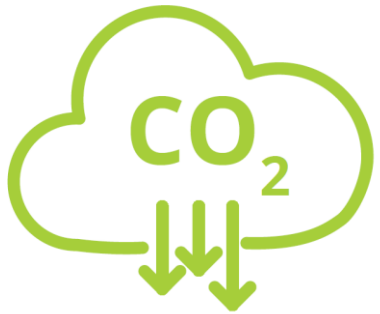
Reducing greenhouse gas emissions by 50%



BBI JU driving the transition to a post-pet zero-waste society



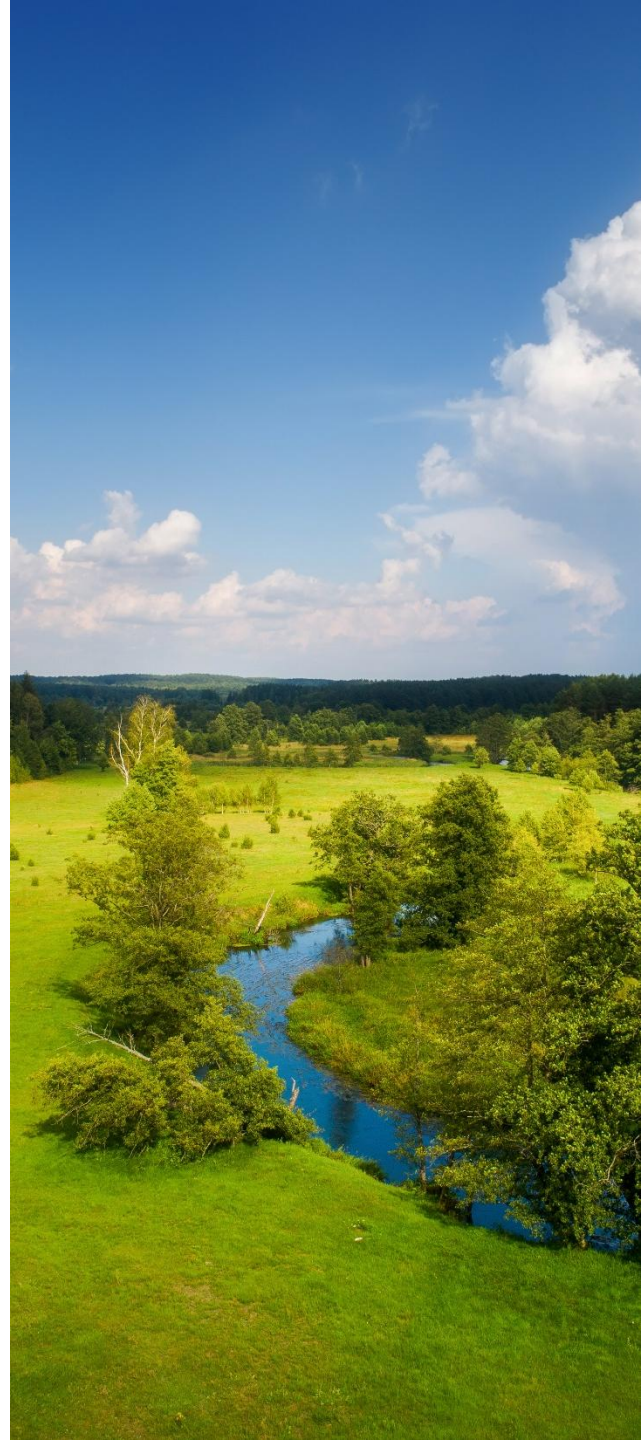
86% OF IAs
ARE REDUCING
DEPENDENCY ON NON-
RENEWABLE RESOURCES



600 kT CO₂ SAVINGS
FROM FIRST 9 FLAGSHIPS



64% OF PROJECTS
ARE CONTRIBUTING TO WASTE REDUCTION,
REUSE, RECYCLING OR VALORISATION





BBI JU projects sustainable feedstock

All feedstock used in BBI JU projects must be sustainably sourced in Europe and not compete with food production



**EXPLOITING
AGRICULTURAL
WASTE**

92%

of projects using agricultural feedstock only use waste and by-products, and 8% use crops grown in marginal lands.



**BOOSTING
SUSTAINABLE
FORESTS**

96%

of projects using forest-based feedstock use wood residues, cellulose and pulp, and paper industry sidestreams. Only 4% cut wood, exclusively from sustainably managed forests.



**DEVELOPING
CIRCULAR BLUE
BIOECONOMY**

100%

of aquatic feedstock used in projects are algae and by-products of fish and seafood, which helps make the fishing industry more circular.



BBi JU supporting the development of green production and processes



38% OF PROJECTS

ARE DEVELOPING SAFER PROCESSES e.g. by eliminating the need for toxic solvents or chemicals, lower temperature/pressure processes



53% OF PROJECTS

ARE CONSUMING LESS ENERGY IN THE PRODUCTION OF BIO-BASED PRODUCTS e.g. by using milder reaction conditions



36% OF PROJECTS

ARE USING WATER MORE EFFICIENTLY IN THE PRODUCTION OF BIO-BASED PRODUCTS e.g. by recycling water from the process or by using feedstock with low water requirements

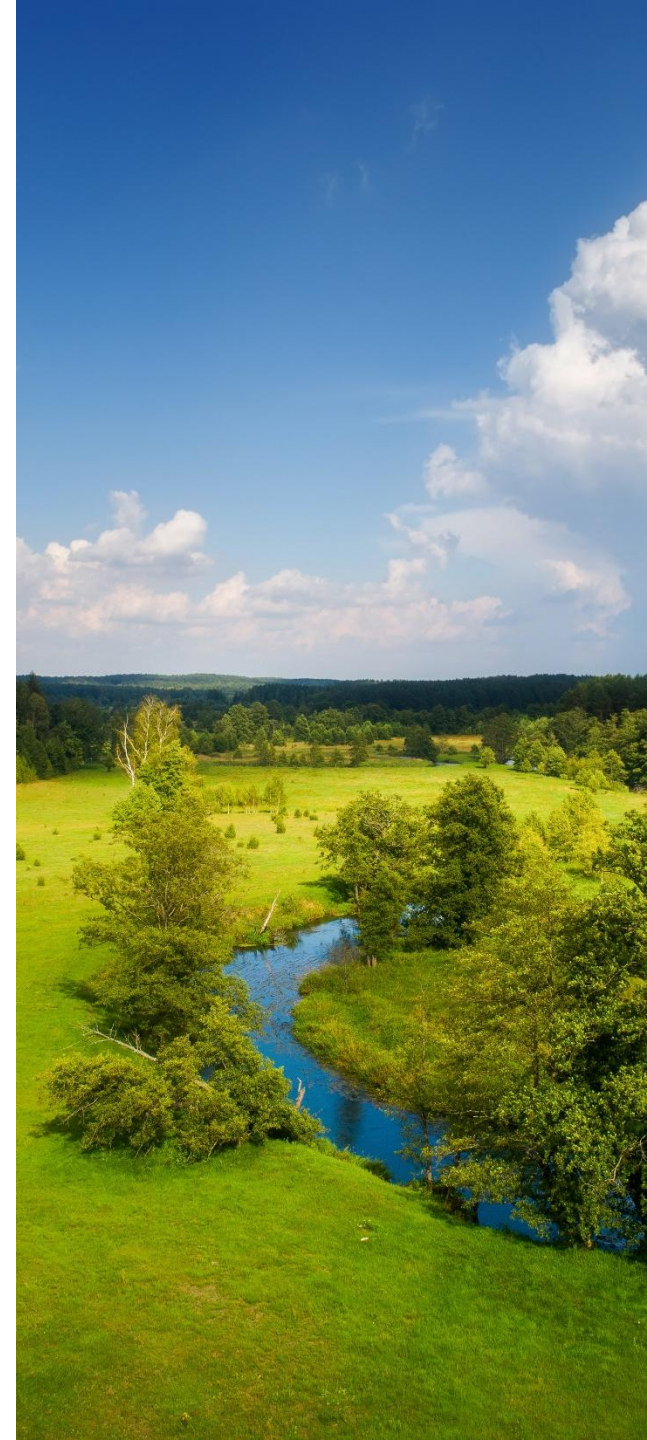




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From 'Horizon 2020' to 'Horizon Europe'

- EU works with 7-year budgets
 - BBI JU:
 - Fully embedded in Horizon 2020 (2014-2020)
 - Last BBI JU Call was/is Call 2020 (closure date: 3 Sept 2020)
 - 'Horizon Europe': new EU R&I funding programme (2021-2027)
- Successor for BBI JU?
 - Negotiations are ongoing for CBE (**C**ircular **B**io-based **E**urope)
 - Embedded in 'Horizon Europe'
 - Single Basic Act (SBA) = the legal act establishing all iPPP under Horizon Europe
 - General part is common for all institutionalised partnerships
 - Specific part of individual partnerships



SBA Objectives for CBE (based on *draft, not yet approved* SBA)

General objectives

- a) Accelerate the **innovation** process and development of bio-based innovative solutions
- b) Accelerate **market deployment** of the existing mature bio-based innovative solutions
- c) Ensure a high level of **environmental performance** of bio-based industrial systems



SBA Objectives for CBE (based on *draft, not yet approved* SBA)


Specific objectives


- a) Increase the intensity of **cross-disciplinary research and innovation** activities [...] for the development and demonstration of sustainable bio-based solutions
- b) Increase and integrate the **R&I capacity of stakeholders across the European Union** to exploit the local bioeconomy potential
- c) Increase the R&I capacity for addressing **environmental challenges** and **development of more sustainable bio-based innovations**
- d) Reinforce the **integration** of bio-based R&I processes in EU industrial value chains
- e) Reduce R&I investment risk** in bio-based companies and projects
- f) Ensure that **environmental considerations** are taken into account in the development & implementation of R&I bio-based projects




Thank you!


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