



**Circular
Bio-based
Europe**
Joint Undertaking



Bio-based Industries Consortium

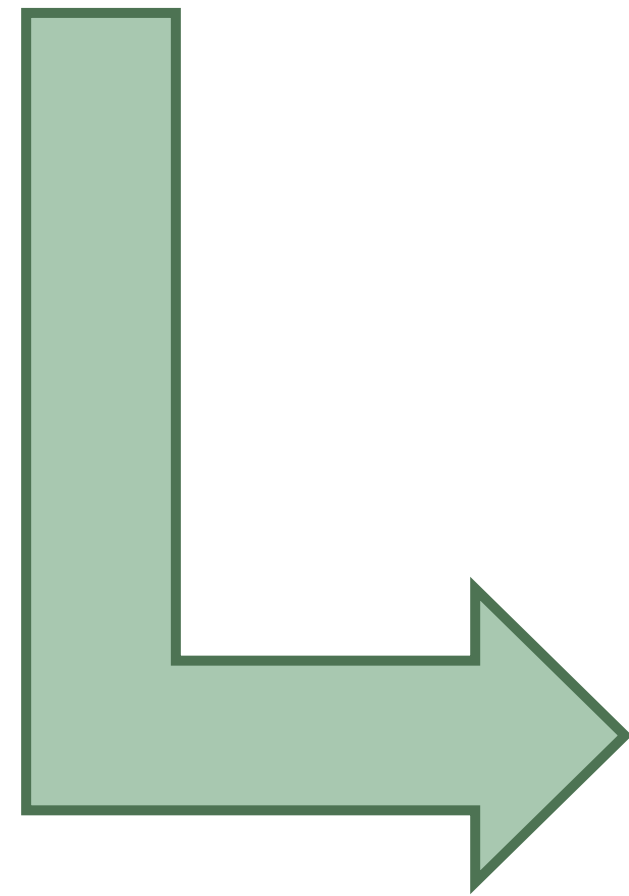
Rob Beekers

Chairman of the Governance Board



The ending of our linear Society

Transition is needed



Turning the straight
line into a circle



A circular bio-based society

Our Members

A selection of some of BIC's 240+ members:

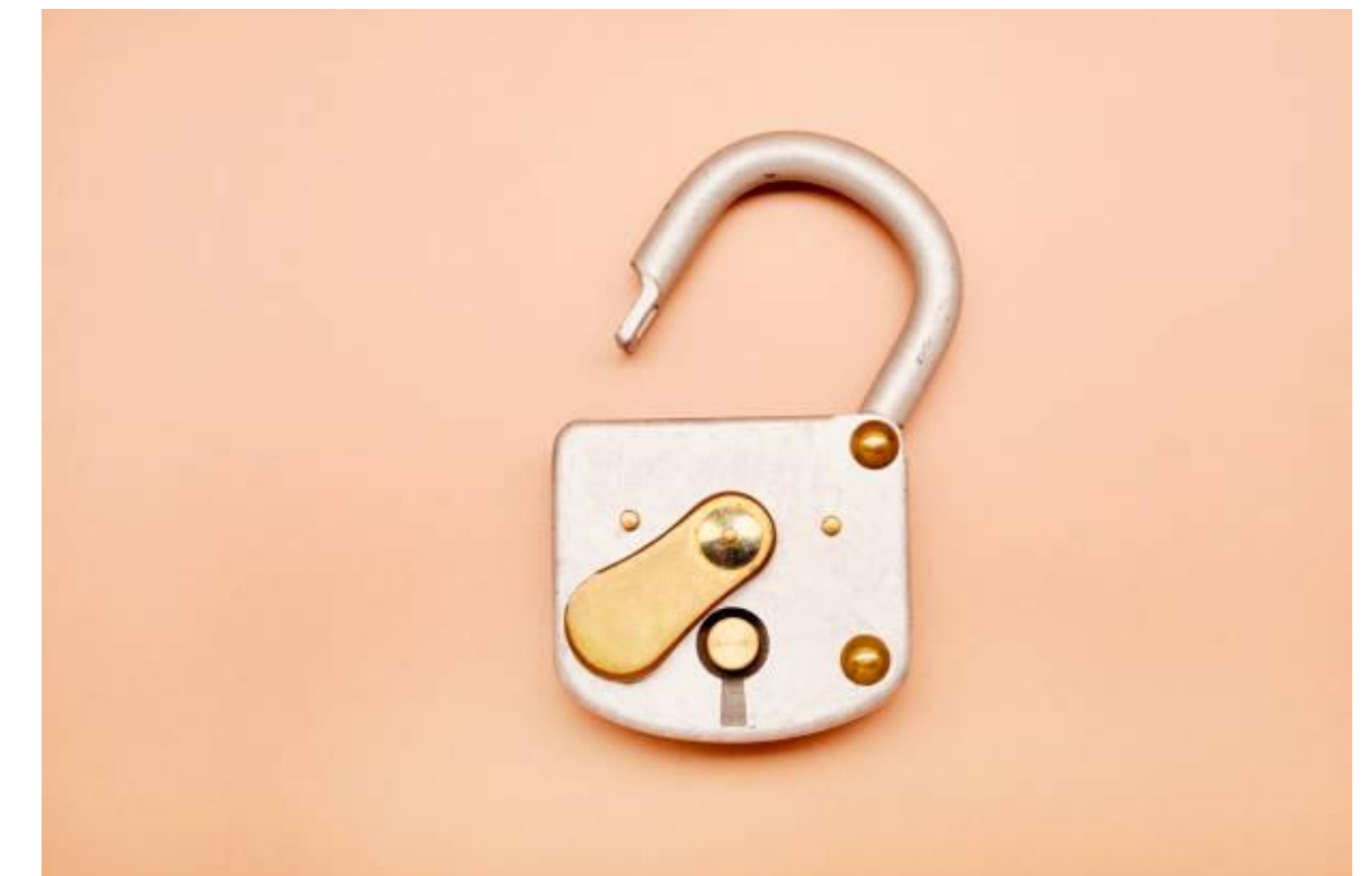


Our Activities



Connecting industry, academia, regions and citizens to transform bio-based feedstocks into novel sustainable products and applications, and create circular bioeconomy ecosystems through investments, innovation and know-how.

New Value Chains



Unlocking the knowledge that resides within academia and industry

CONSUMER REQUIREMENTS



How do I know if this product is sustainable?



Will this product be available on the shelf for me to buy it again?



Why is this product more expensive?
I need 5 of these.
It is going to cost me too much.

INDUSTRY REQUIREMENTS



Will there be demand for my products? What is the EC's position on bio-based products?



What is the availability and cost of biomass compared to other regions in the world? Why are there constraints on using primary crops?



What is cost of capital and support mechanisms to de-risk the large investment for Industrial scale plants?

Flagship

- 1 Optimized and integrated forest-based value chains
- 2 Expansion/retrofitting bio-refineries
- 3 Bio-based Packaging materials with improved properties
- 4 Valorization of aquatic biomass waste and residues

Innovation Action/ Demo

- 5 Small scale biorefining
- 6 Bio-based fertilizers
- 7 Improved fermentation processes
- 8 Recycling of bio-plastics
- 9 Bio-based surfactants
- 10 Bio-based building blocks
- 11 Bio-based composites

CBE Annual Workplan 2023

RIA

- 12 Phyto Management
- 13 Improved forest management
- 14 Optimized Industrial biotech processes
- 15 High performance bio-based polymers
- 16 Development of standards for biodegradability

CSA

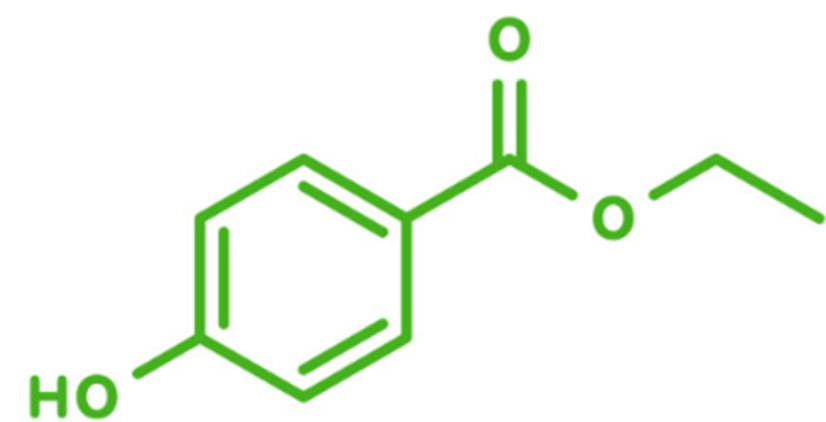
- 17 EU wide community of pilot plants and upscaling facilities
- 18 Regional assessment of environmental sustainability screening

Success of the Circular Bio-based Europe JU

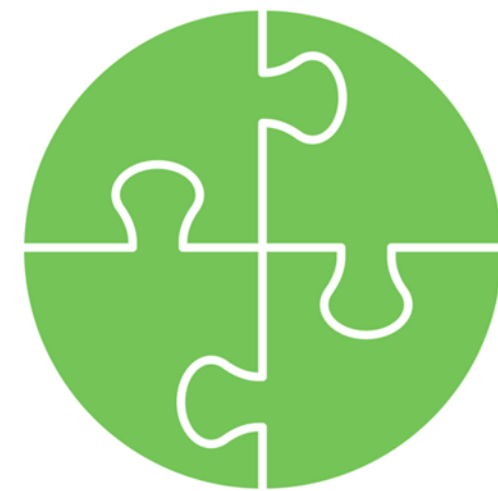
De-fossilization
of Materials



+



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Biomass

Chemistry

Collaboration