

# The new Bio-based Industries Initiative

bridging the gap between lab and market  
and meeting the societal challenge



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 **Bio-based Industries  
Consortium**



## **Accelerate the innovation and market-uptake of bio-based products and to position Europe as a world-leading, competitive bioeconomy**

**To create a post-petroleum society where economic growth is decoupled from resource depletion and dependency of fossil fuels is reduced, BIC and its members are building an economy based on:**

- Local sourcing
- Local production
- Job creation
- Rural development
- Sustainability
- Efficient use of resources

1. Replace 30% oil-based chemicals & materials
2. Diversify & grow farmers income
3. Create 1 million jobs – 80% in rural area
4. Reduce EU dependency on import of fossil raw materials, protein and P - K
5. Develop potential of agriculture & forestry residues
6. Shift to bio-based → average 50% GHG emission reduction

**To build bio-based value chains by developing new biorefining technologies, optimising feedstock use and creating a favourable business and policy climate to accelerate market acceptance of bio-based products**

**Activities:**

- Set up and update the Strategic Innovation and Research Agenda (SIRA)
- Define the Annual Work Plans with topics for the Calls for Proposals
- Mobilise the industry (large and SME), research organisations, universities and relevant stakeholders
- Assist members gaining better access to European financial instruments



**Benefits for BIC members**

# Our members – more than 200 and growing

## ■ 69 Full members

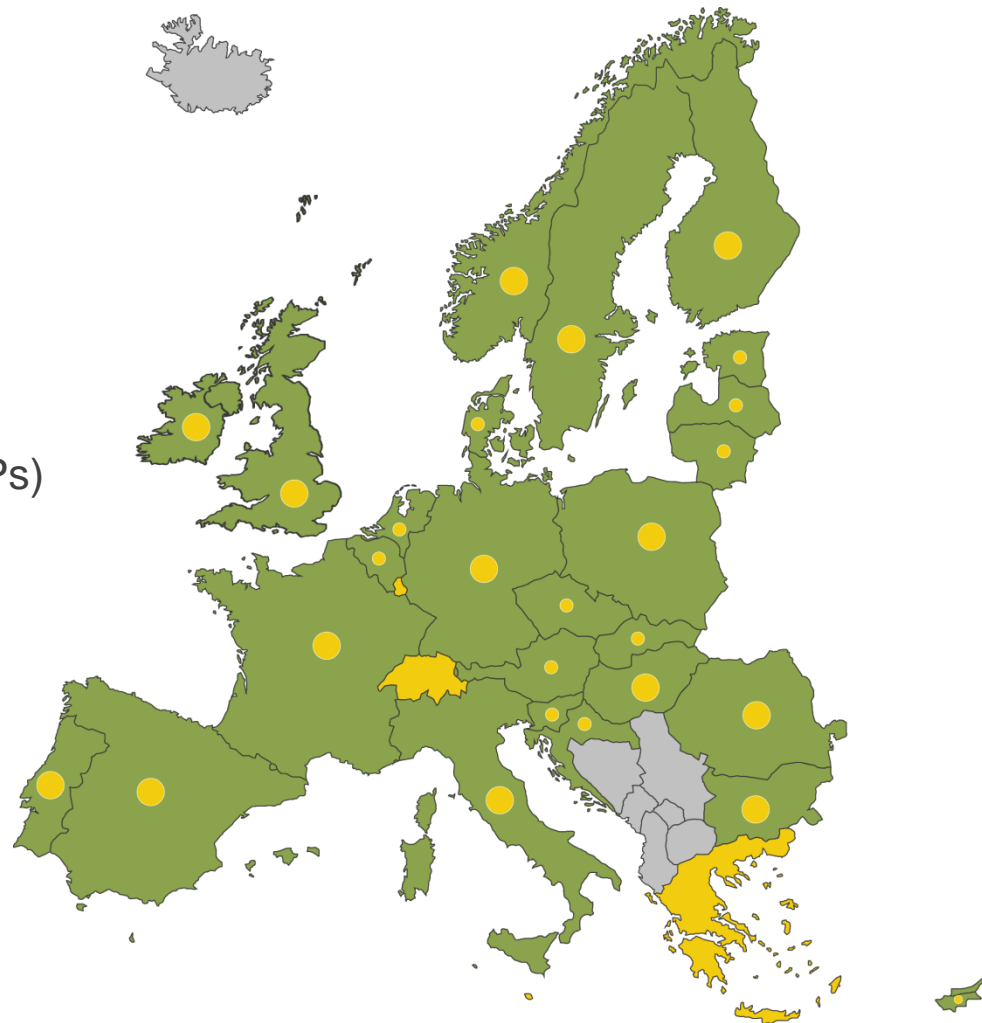
- Large industries
- SMEs
- Regional clusters

## ■ 151 Associate members

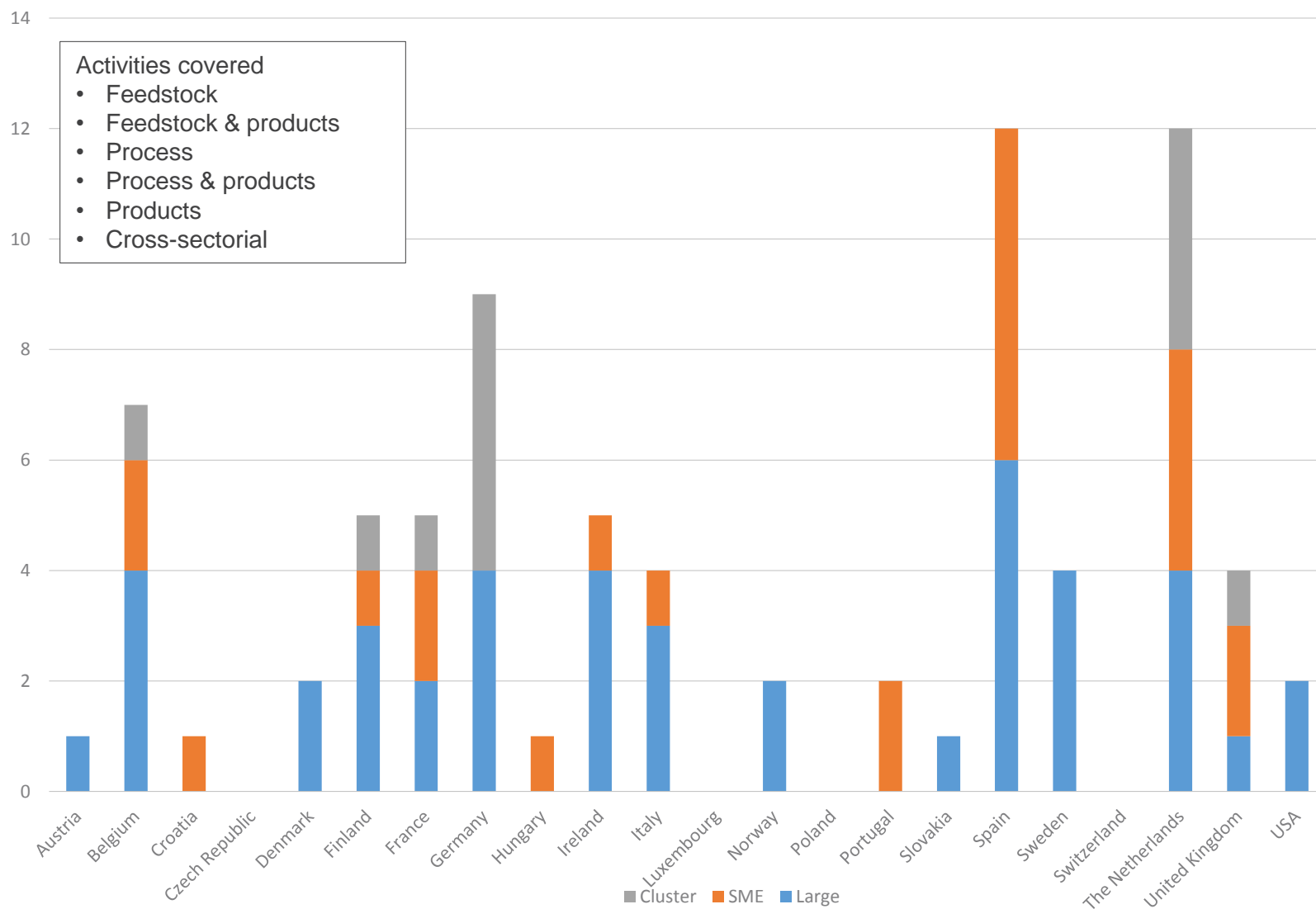
- Universities & RTOs
- European (Trade) Organisations
- (European) Technology Platforms (ETPs)
- Clusters
- Private banks

## ■ Several industrial sectors covered

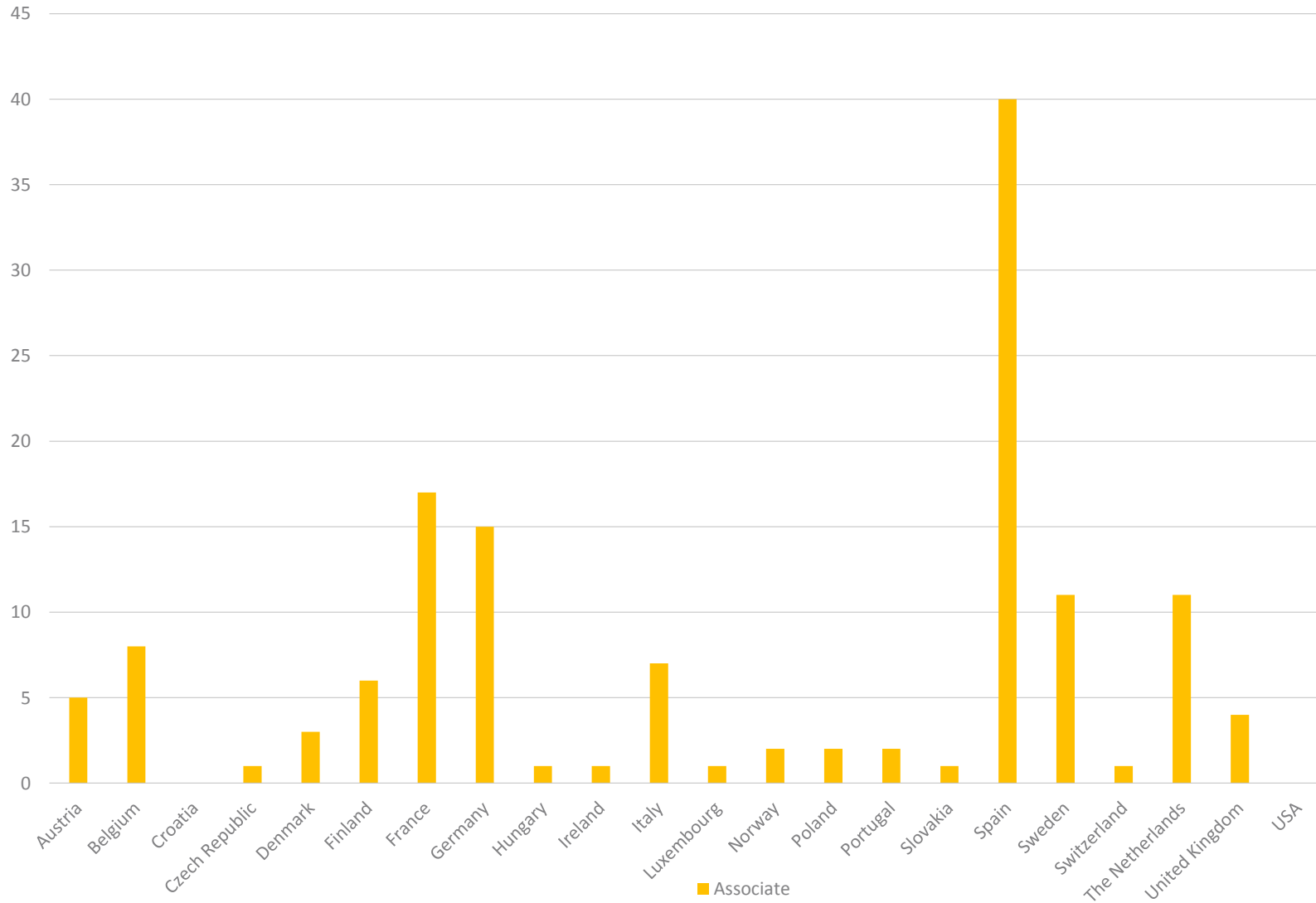
- Agriculture & Agro-food
- Forestry & Pulp and Paper
- Technology providers
- Chemicals
- Energy



# Full members (industry)



# Associate members



# BBI JU - Governance

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## Public partner

Represented by  
EC 25%  
contribution in  
BBI JU



European  
Commission



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## Private partner

Represented by BIC  
75% of contribution  
in BBI JU

## BBI JU



Governing Board (10 seats)

Executive Director

Programme office team : 23

States Representatives Group  
(28 MS + 10 AC)

Advisory bodies

Scientific Committee  
(15 Seats)

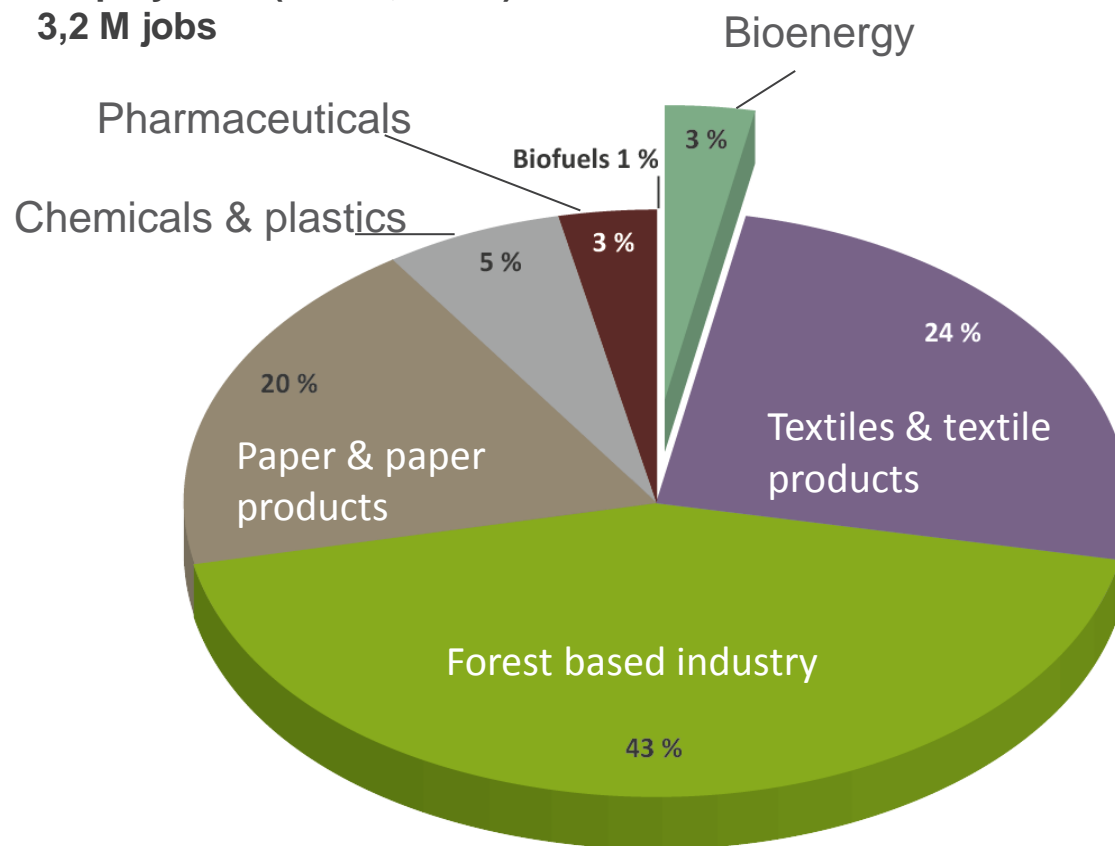


# To 'de-risk' an emerging industry

- **A clear framework** that brings clarity for activities & investments
- **Long term stability and predictability**
- **A joint approach, across sectors, across Member States**
- **Joint financial commitment and a jointly defined programme**, that will unite parties that would otherwise find these activities too risky for an individual sector/company
- **Leverage further investments**
- **Industry driven** and therefore result and market-oriented

# Bio-based industries in EU

## Employment (EU-28, 2013 ) 3,2 M jobs



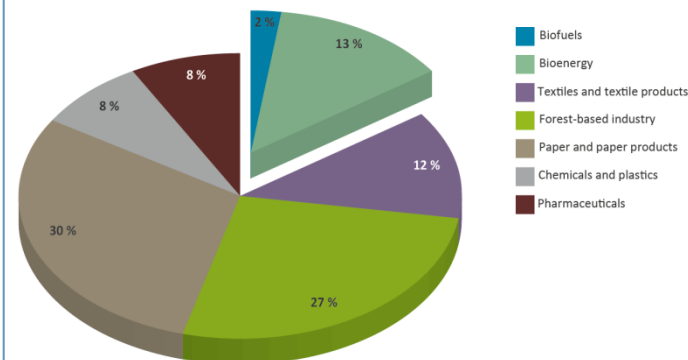
## EU bioeconomy:

2,1 trillion € turnover: half from food & beverage;  
Half from primary sector & bio-based industry

- 600 B € in bio-based industry

18,3 M jobs: 10,6 M in primary sector; 4,5 in  
food & beverage & tobacco; 3,2 in bio-based  
industry

## Turnover in the EU bio-based economy\* (EU-28, 2013) Total: 600 billion Euro



# Focus: the entire value chain

## ***Feedstock***

- Fostering a sustainable biomass supply and building new value chains

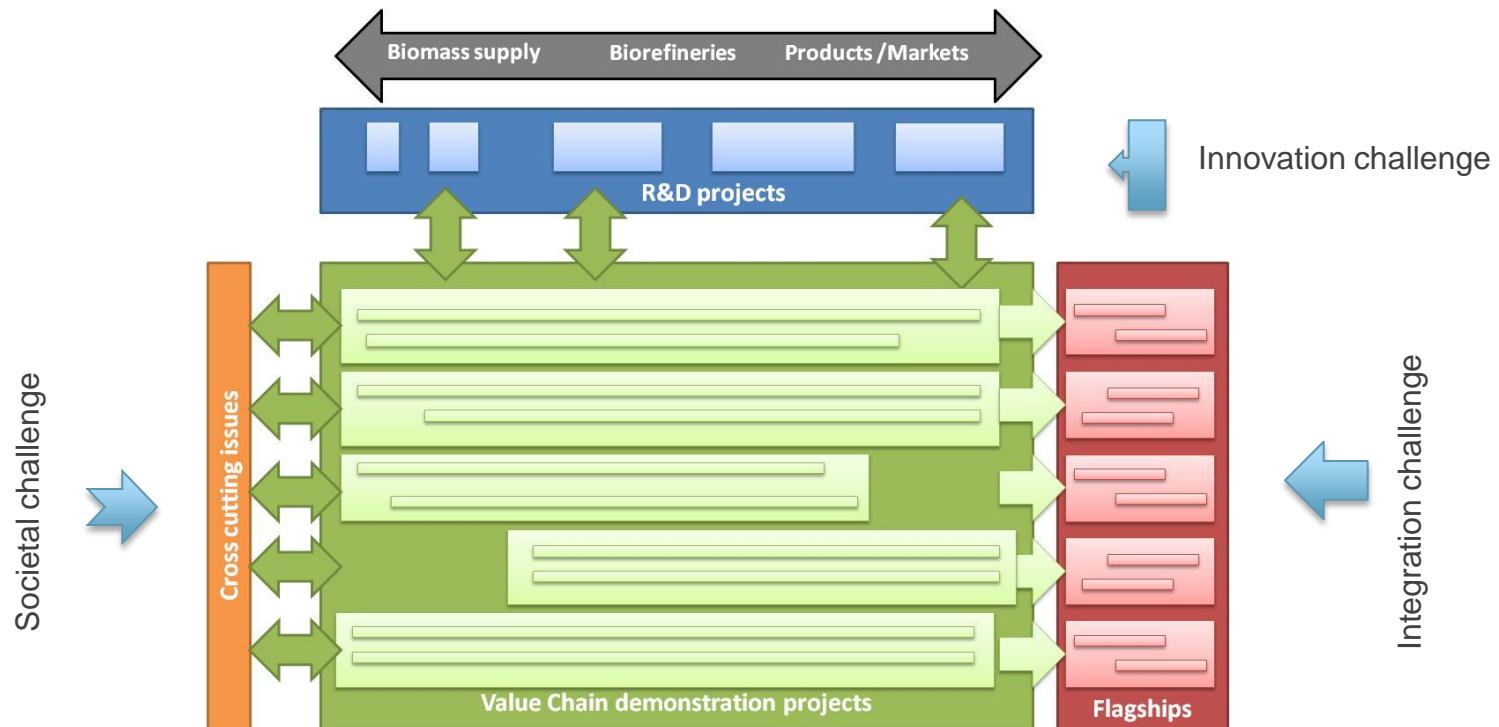
## ***Biorefineries***

- Optimising efficient processing through R&D and upscaling in large-scale demo/flagship biorefineries

## ***Markets, products and policies***

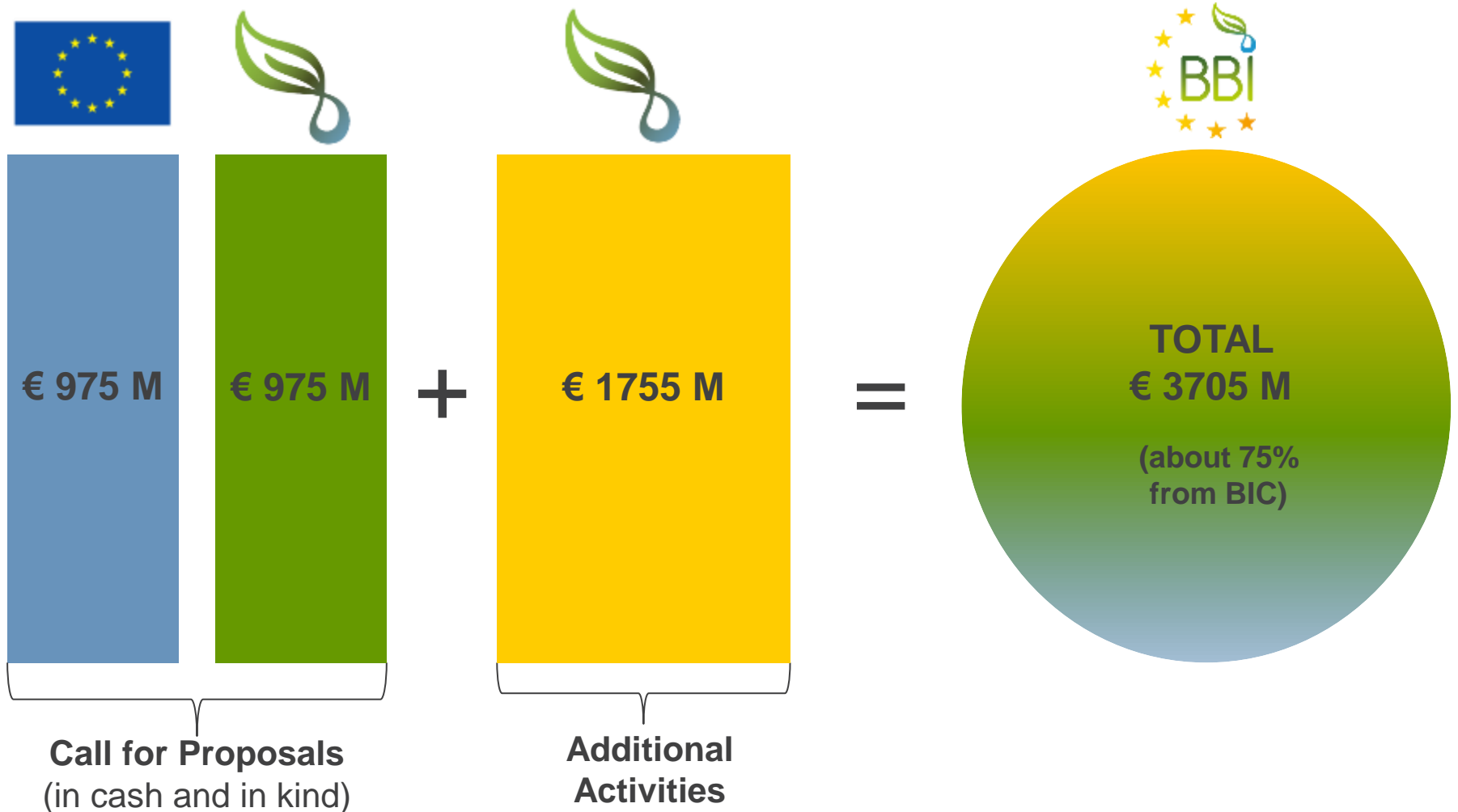
- Developing markets for (new) bio-based products and optimising policy frameworks

# Our goal: create value chains – invest in EU



Research and Innovation Actions: TRL 4-5  
Innovation Actions – Demonstration: TRL 6-7  
Innovation Actions – Flagship: TRL 8

# BBI JU: Budget



- Combining EU funds to maximise impact
  - Guidelines on BBI-ESIF synergies** developed by BIC
    - WHAT can be co-funded in a given project
    - HOW to approach these synergies



- Juncker Investment Plan
  - €315 billion over 2015-2017**



- Bioeconomy Investment Summit *organised by the EC*
- Identifying bottlenecks and hurdles for investment in EU (EIB survey in '15)

9-10  
NOVEMBER '15

Disclaimer in March 2013 BBI SIRA (Strategic Innovation and Research Agenda):

‘the BBI SIRA will be frequently adjusted based on technology and market developments, results obtained and ambitions of new members entering the BIC’.

The main drivers for adjusting the SIRA in 2016 build on above:

- Widen the scope for participation in programme of the BBI JU
  - Industrial / economic sectors
    - Valorise residues; sustainability; employment
  - Geographical areas
    - Local use / valorisation of available biomass

# Adjusting the SIRA – cont'd

- Incorporate *state-of-play* of the world around us and seek to benefit thereof
  - Developments in feedstock, processing technologies, products and markets
  - Crude oil price; go for strategy: *'it's all about functionalities!'*
  - 'Political reality': ensure crucial position of bioeconomy in *'sustainable circular economy'*
- Better align the bio-based industry's ambitions with societal expectations and needs
  - Aim our actions to clearly meet societal needs
  - Better communication and awareness actions



Strategy is to build on current SIRA



# Process to prepare work plan & call

## Bio-based Industries Consortium

*BIC Programming  
Working Group*

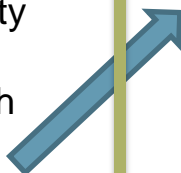
+

*Programming Core Team  
(representing all sectors,  
regions, large companies,  
SME)*

1. BIC staff: survey all stakeholders for annual priorities
2. PWG prepares Priority Paper + annual work plan topics (liaise with associate members)



3. BIC staff discusses AWP with EC

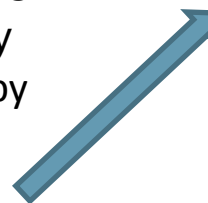


Scientific Committee  
States Representatives Group

1. **BBI**: seeks advice from SC and SRG
2. BIC: agreement on final version by BIC General Assembly
3. BBI: endorsement by Governing Board



4. **BBI** publishes the (**open**) calls



5. **BBI** organises evaluation by independent experts (on **excellence, impact + implementation**)



6. **BBI** negotiates and signs contract with winning consortia (consortium agreement and grant agreement)

1. Expand & diversify biomass feedstock for a bio-based industry
  - Better use of existing sources
  - New sources such as residues from the food processing industry
2. Optimise efficient processing
  - New technologies sufficiently developed to improve biorefining operations?
3. Develop innovative bio-based products for identified applications
  - Focus on new functionalities and better performance
4. Realise and accelerate market-uptake of bio-based products
  - Link Coordination and Support Actions to Technical and Integration actions in the AWP

# How to get involved?

## 1. Respond to annual BBI Calls for Proposals

Participate in project proposals



## 1. Become a member of BIC to actively contribute to the development of the annual BBI Work Plans

Visit <http://biconsortium.eu/join-us> for more information on becoming a member



# Benefits of BIC membership

**Full membership:** (Industrial and commercial companies or any legal entity representing them, active in bio-based industries)

**Associate membership:** (RTOs, universities, associations, regions or any legal entity interested in BIC activities)

- **Define** the BBI's Strategic Research and Innovation Agenda
- **Develop** annual work plans and BBI Call for Proposals Topics
- **Participate** in timely networking and brokerage events
- **Access** the BIC Members' online Partnering Platform allowing for throughout the year exchange information and consortia building with BIC members
- **Clarification** on financing rules
- **Identification** of co-financing opportunities (e.g. H2020-ESIF) and development of guidelines

*For more information and application forms: <http://www.biconsortium.eu/join-us>*





Thank you  
And join us!

[www.biconsortium.eu](http://www.biconsortium.eu)

# Contact

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