



The Bio-Based Industries Consortium
Strategic Innovation and Research Agenda & collaborations

Bioeconomy Forum “Towards a Sustainable and Innovative Bioeconomy”
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Riga, Latvia

Suzy Renckens
Public Affairs and Communications



THE BIO-BASED
INDUSTRIES CONSORTIUM
(BIC)

About the Biobased Industries Consortium (BIC)

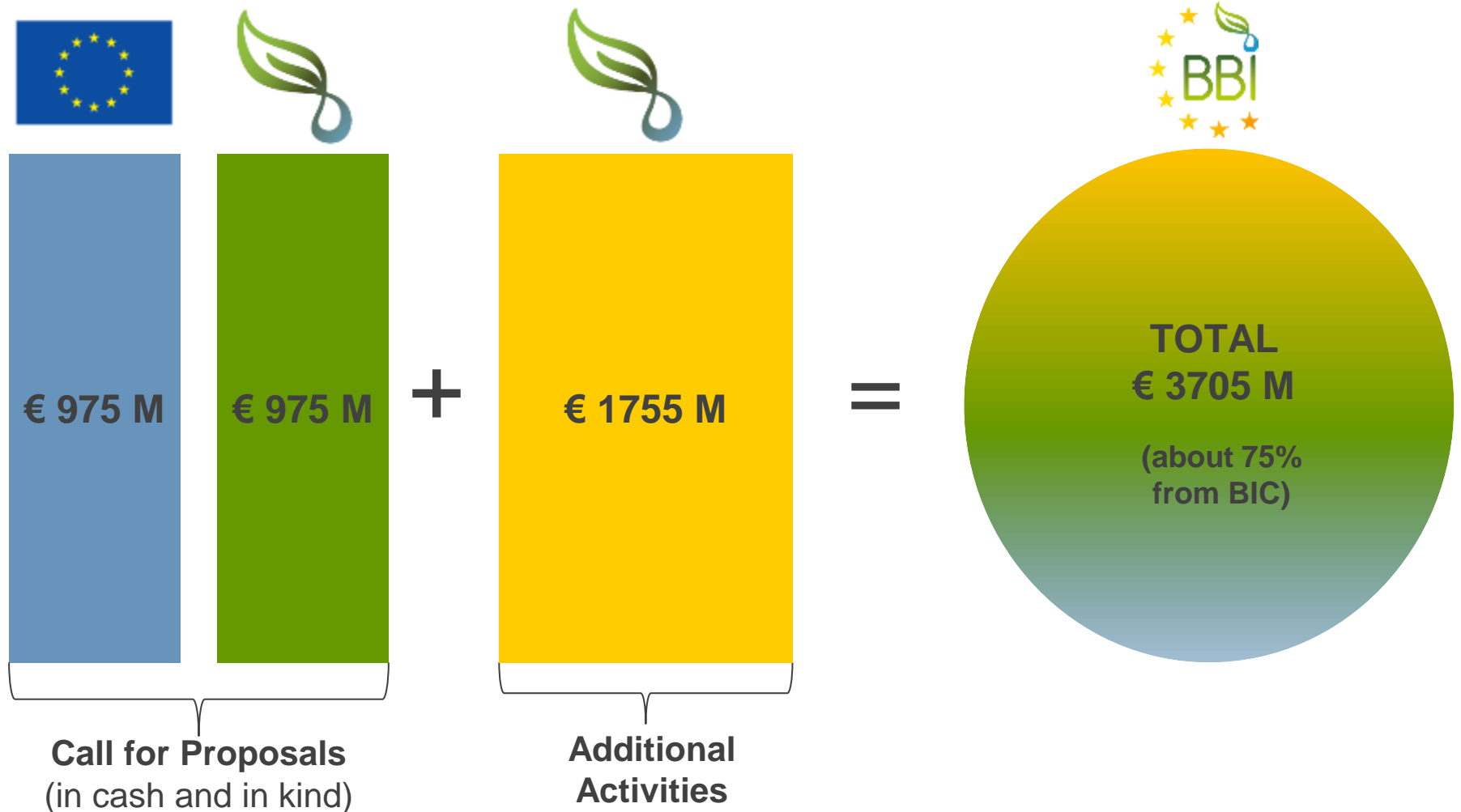


The Bio-based Industries Consortium (BIC) was established in 2012 to **represent the private sector** in the Bio-based Industries Joint Undertaking (BBI JU), a Public-Private Partnership with the European Commission.

“Our **vision** is for a **competitive, innovative and sustainable Europe**: leading the transition towards a post-petroleum society while decoupling economic growth from resource depletion and environmental impact.” July 2012



BBI JU: Budget



- Define the **Strategic Innovation & Research Agenda (SIRA)**
- Lead the drafting of the annual BBI **Work Plans & topics** for the **Call for Proposals**
- **Mobilise stakeholders:** industry (large, SMEs, SME Clusters), research organisations, universities, regions and all other relevant stakeholders across Europe
- **Improve** conditions for “**Access to finance**” in Europe
- Endeavour a **favourable policy environment**
- **Create awareness** about the bioeconomy, also at **Regional level**

Our members

■ 74 Full members

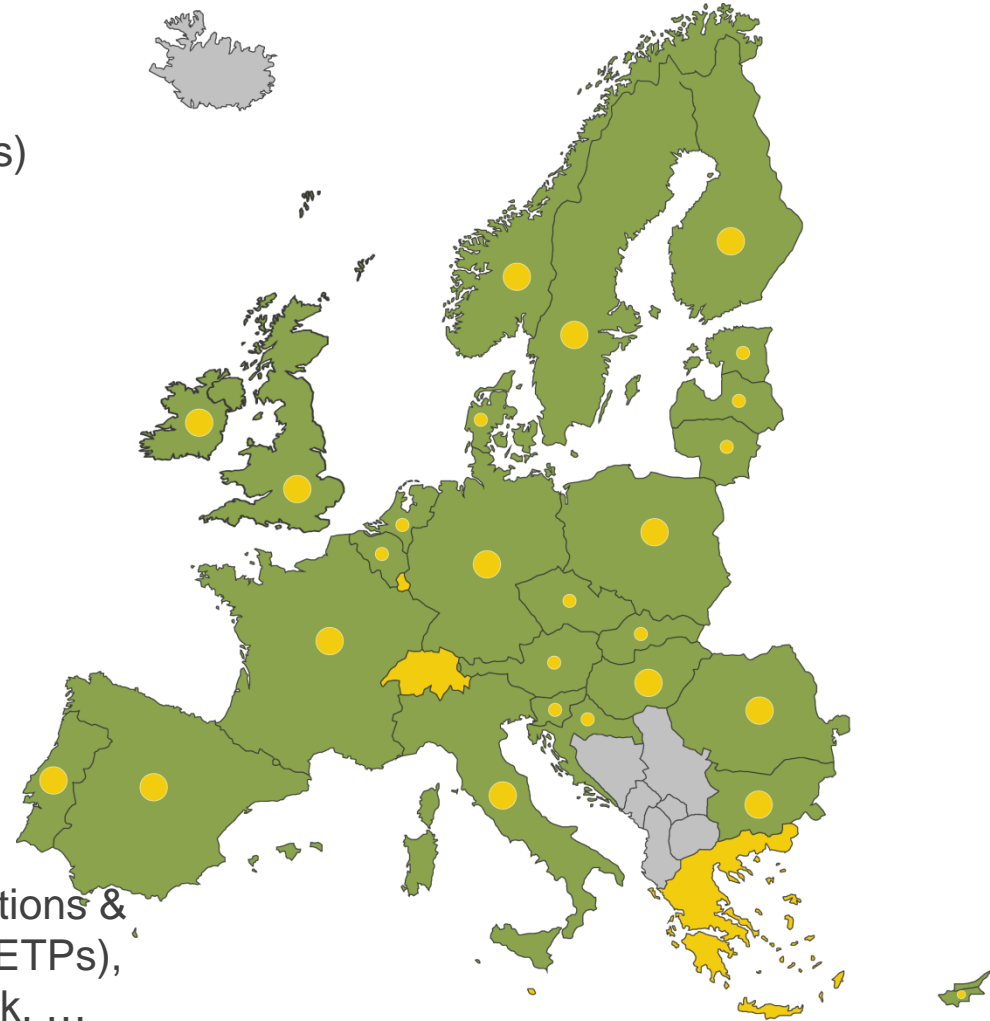
- 30 Large industries (incl. brand-owners)
- 30 SMEs
- 14 SME Clusters

Several industrial sectors covered

- Agriculture & Agri-food
- Forestry & Pulp and Paper
- Technology providers
- Chemicals & materials
- Energy
- ...

■ 163 Associate members

- Universities, RTOs, European associations & organisations, Technology Platforms (ETPs), public institutions, regions, private bank, ...



BIC Membership drive

- Industry sectors
 - Better representation of primary producers in agricultural sector
 - New sectors
 - aquatic biomass, e.g. algae
 - municipal waste
 - CO₂
- Market pull/access/applications
 - ‘Brand owners’
- Geographical spread (e.g. Eastern Europe)
 - ‘Bioeconomy’ Regions

BIC membership benefits (industry)

- **Governing the BBI JU** together with the European Commission
- **Defining** the BBI's Strategic Research and Innovation Agenda (SIRA)
- **Developing** the BBI annual work plans (AWP) and Call for Proposals Topics following consultation with EC and BBI JU (BIC Programming WG)
- **Advocacy:** Reaching out to EU Policy makers on major policies that may impact the Bioeconomy (BIC Public Affairs-Public Relations WG)

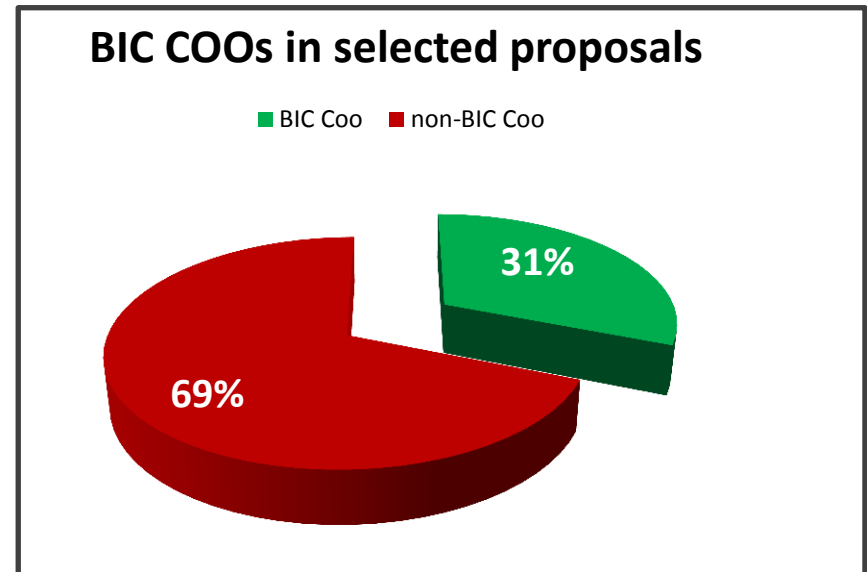
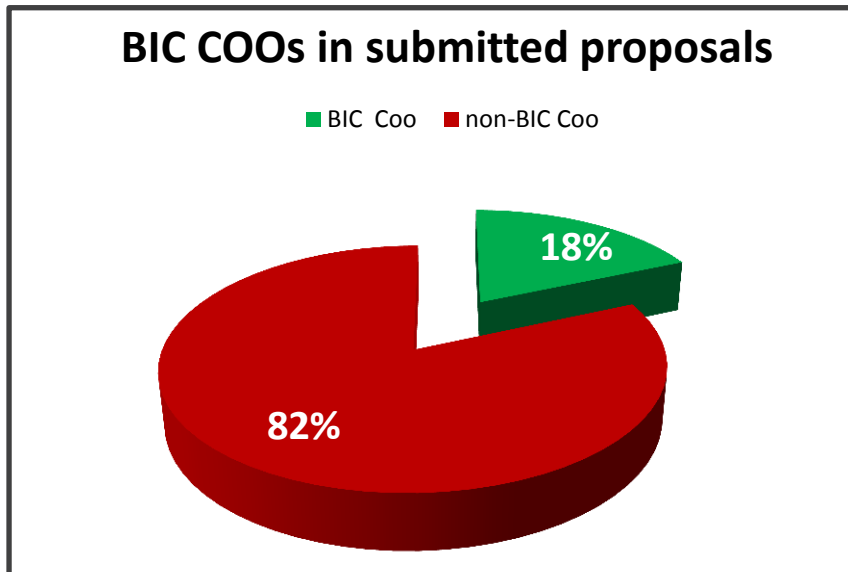
BIC membership benefits (incl. Associate members)

- **Connecting** with potential project partners: online Partnering Platform allowing to exchange information and consortia building with BIC members
- **Participating** in timely networking and brokerage events (before the BBI Open day)
- **Taking part in winning EU grant proposals** having early insight into the BBI Calls for proposals (before official publication)
- **Access to European financial instruments:** information about loans, grants and funding
- **Staying up to date** - BIC Newsletter
- **Receiving discounts for major events** (e.g. European Forum for Industrial Biotechnology EFIB)

BIC Coordinators in submitted vs selected proposals

Success rate of proposals having a **BIC Co** : 47.4 %

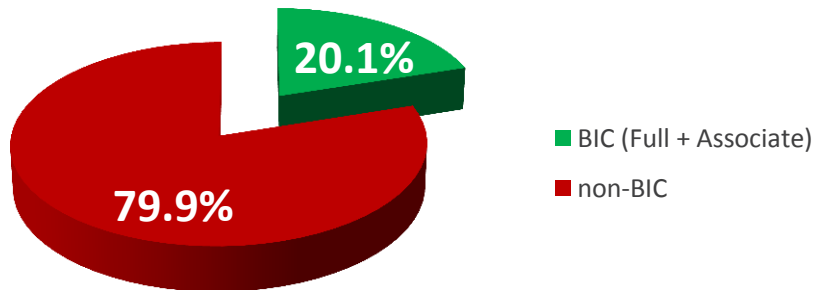
Success rate of proposals having a **non-BIC Co** : 23.8 %



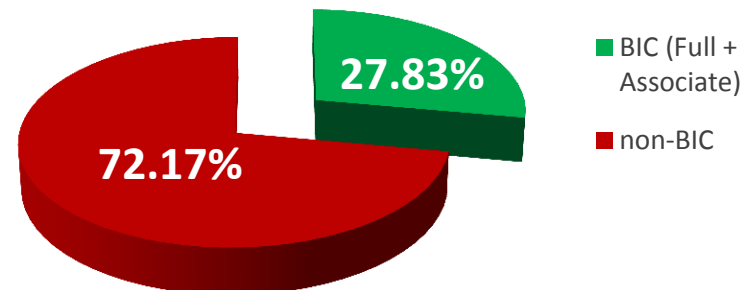
BIC members : 38.1 % success rate in selected proposals

Non-BIC members : 24.8 % success rate in selected proposals

BIC membership in submitted proposals (participation)



BIC membership in selected proposals



How to get involved?

1. Respond to annual BBI Calls for Proposals

Participate in project proposals



1. Become a member of BIC

(annual fee) 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



Strategic Innovation & Research Agenda (SIRA)

Annual Work Plan (AWP)

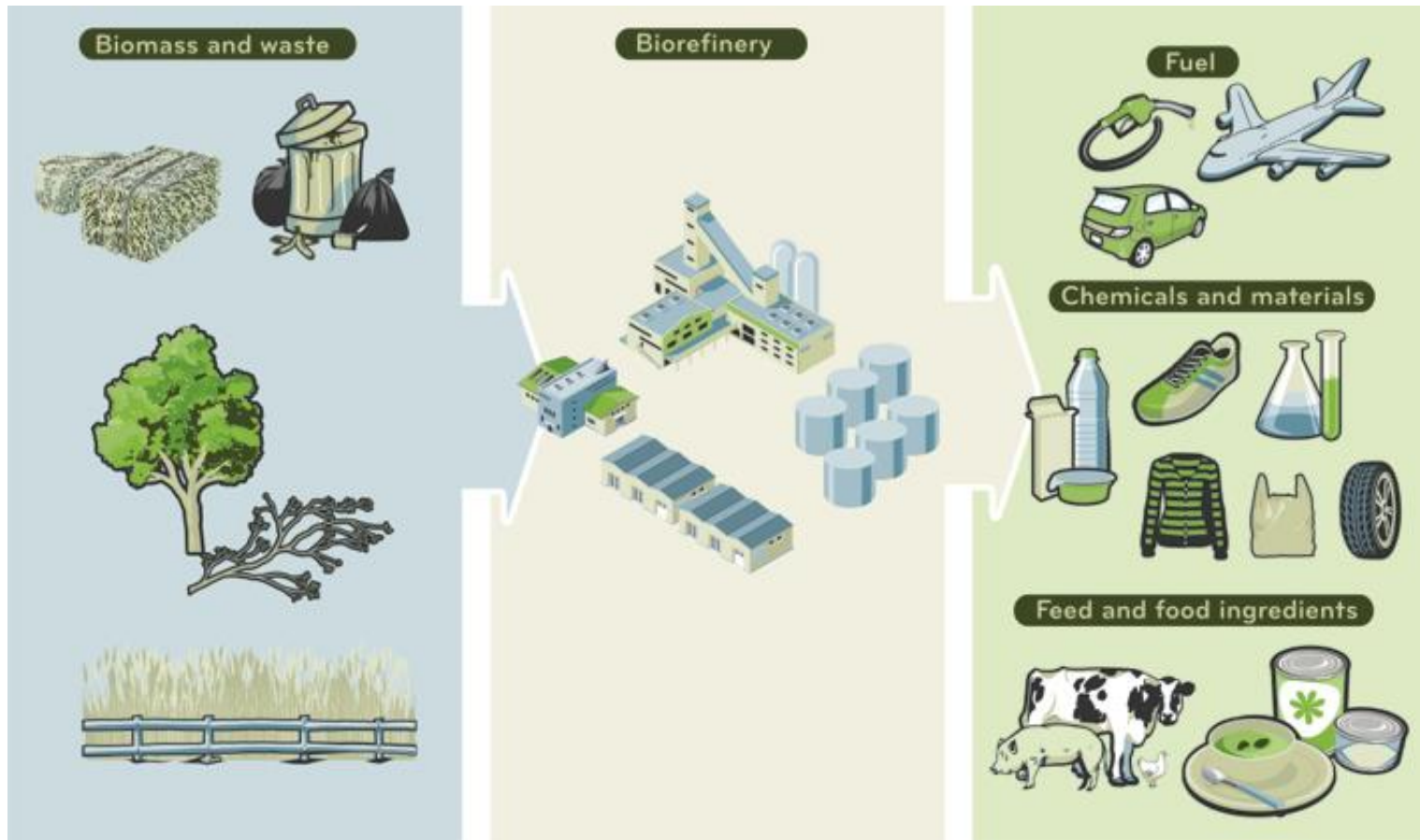
Build **new bio-based value chains** by **optimising feedstock use**, developing new **biorefining technologies**, and **creating a favourable business and policy climate** to **accelerate market acceptance of bio-based products**

- **Involving different industrial sectors**
- **Build a bioeconomy based on:**
 - Local sourcing
 - Local production
 - Job creation
 - Rural development
 - Sustainability
 - Efficient use of resources



Bio-based industrial value chains

The concept



Converting Europe's untapped biomass and wastes into greener everyday products

- To **widen the scope** for participation in the BBI programme
- To incorporate the ***state-of-play*** of the world around us and to reap benefits thereof
- To reflect the **political context**
- To better align the bio-based industry's ambitions with **societal expectations/needs**

Addressing the **four strategic orientations** of the bio-based industry in Europe

- Foster a **sustainable biomass-feedstock supply** to feed both existing and new value chains.
- Optimise **efficient processing** for integrated biorefineries through R&D&I. Innovative bio-based products for identified applications
- Develop **innovative bio-based products** for identified market applications.
- Create and accelerate **market uptake** of bio-based products and applications

Base mode of operation for the bio-based industry in the EU remains:
‘Cross-sectorial integration along and across value chains’

STRATEGIC ORIENTATION 1 - Sustainable supply of biomass feedstock

Agri-based feedstock

Forest-based feedstock

Aquatic feedstock

Bio-waste and CO₂

STRATEGIC ORIENTATION 2 - Innovative processing

Pre-treatment

Conversion of pre-treated feedstocks to bio-based chemicals and materials

Downstream processing

System modelling

STRATEGIC ORIENTATION 3 - Innovative products

Drop-in bio-based products

Bio-based products that outperform fossil-based counterparts

Breakthrough 'new' chemicals setting the foundation for tomorrow's market

Proteins and active ingredients for feed/food, pharma and cosmetics

STRATEGIC ORIENTATION 4 - Market uptake

Standards & Regulations

Communication and awareness

Open access research and open innovation platforms

Cooperation with brand owners and consumers

AWP 2017 - highlights (1)

Strategic orientation 1: Feedstock

- Biomass diversification: 'beyond lignocellulose'
- Resource efficiency: use 'waste' (various sources)

Strategic orientation 2: Process

- Cascading
- Keep 'complexity' in biomass
- Novel microbial and enzymatic activities

Strategic orientation 3: Products

- New/additional functionality
- Novel, breakthrough bio-based products
- Protein and other high value products
- Bio-based fertilising products
- Value added lignin products

Strategic orientation 4: market uptake

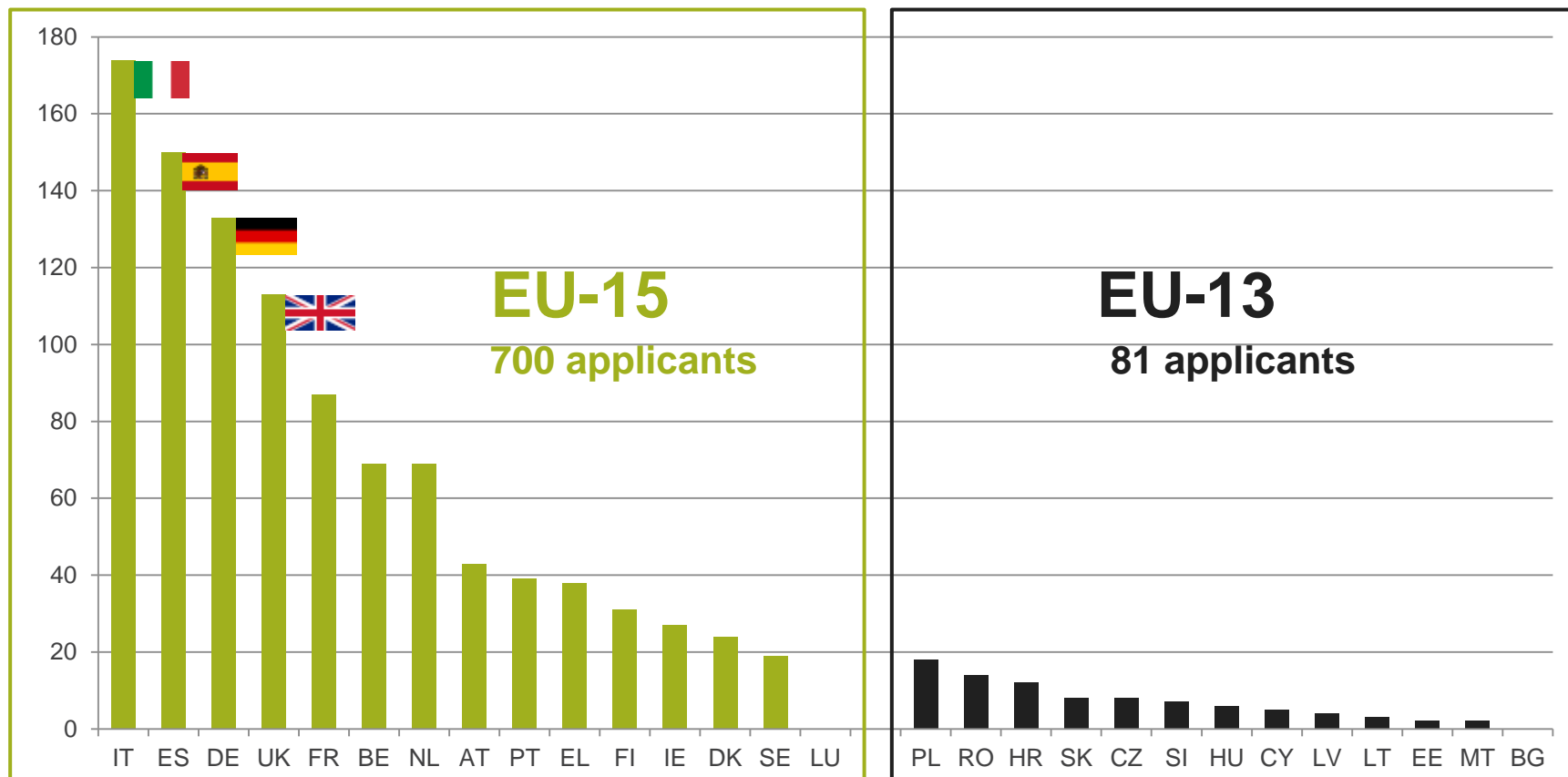
- ICT to improve efficiency of biomass supply chain
- Partnership with brand owners & consumer representatives

BIC COLLABORATIONS

- **Partnerships with ‘Bioeconomy’ regions**
- **Partnership with European Associations (Policy)**
- Partnerships with Communication offices & Event organisers (Communication & Awareness)
- Collaboration with European Investment Bank and national funding organisations

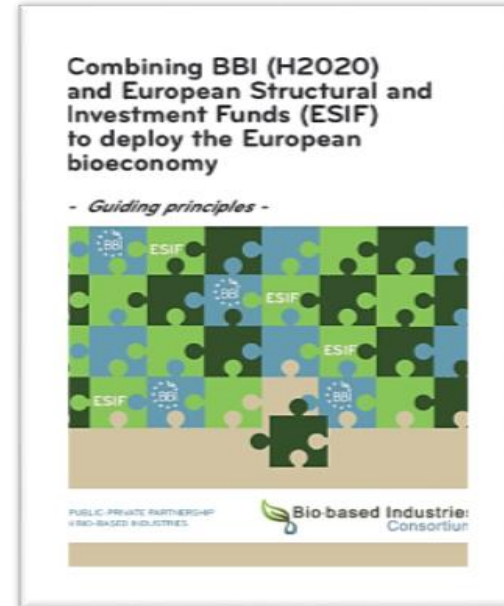
IMPORTANT ROLE
FOR THE REGIONS

781 applicants from the EU 28 with 10% from EU 13
Among EU 13: Poland (18), Romania (14), Croatia (12)

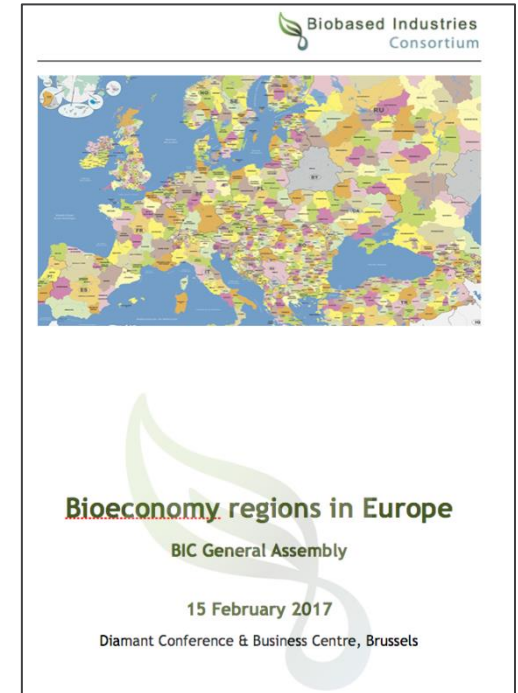


- Opportunities to “**valorise**” **feedstock**: agricultural crops or forestry, marine feedstock, waste from food industry, municipal waste,
- Regions can help setting up **local value chains**, to the benefit of farmers and local industry
- Regions can use **regional and rural development funds** and other finances to support and **attract investments**, and as such **create new jobs** and opportunities for their primary sector.
- **BIC collaborations with regions**:
 - Awareness raising activities on BIC and the BBI JU
 - Synergies and co-funding opportunities to create a more favourable investment environment for bio-based industries in Europe
 - Connect actors across regions and sectors along new value chains
 - Sharing best-practices, exploit complementarity, sharing infrastructure, ...

- **MoU with ERRIN**
 - platform of Research and Innovation Organisations and Stakeholders in Regions that aims to strengthen regional Research and Innovation capacities
 - **guide with scenario's for combining ESIF/Rural Development Funds and BBI/Horizon2020 funding**
- **MoU with The Vanguard Initiative**
 - **smart specialisation strategy** to boost new growth through bottom-up entrepreneurial innovation and industrial renewal
- **Lol with 8 bioregions in Poland**
 - finding synergies between different financial instruments, sharing experiences and achieving mutual benefits in joint actions towards bioeconomy investment.
- Collaboration with six **'Sustainable chemicals' model demonstrator regions (MDR)**
 - promote sustainability in Europe's chemical industry



- Open session focused on 'Bioeconomy' regions to stimulate interaction between bio-based industries and regional authorities
 - Presentation of the Vanguard Initiative
 - Pitches by 13 regions across Europe
 - Brochure with contributions from 27 regions (living document)



POLITICAL FRAMEWORK

JUNCKER PRIORITIES

01		A new boost for jobs, growth and investment.	06		A reasonable and balanced free trade agreement with the United States.
02		A connected digital single market	07		A area of Justice and Fundamental Rights based on mutual trust.
03		A resilient Energy Union with forward looking climate change.	08		Towards a new policy on migration.
04		A deeper and fairer internal market with strengthened industrial base.	09		Europe as a stronger global actor.
05		A deeper and fairer Economic and Monetary Union (EMU).	10		A Union of democratic change.

Political framework

- **Bioeconomy strategy (2012)**
 - Future? BBI JU 2.0?
- **Circular economy package**
 - biomass & bio-based products is one of 5 priority areas
 - missing: strong integration of bioeconomy in circular thinking
 - **bioeconomy is circular by nature**: required for closing carbon loop!
- **EU Plastics strategy (forthcoming)**
 - Biodegradable/compostable bioplastics
- **Industrial policy**
 - bio-based products are among priorities to invest in innovation & technology
- **Food 2030 / Common Agricultural Policy / EU Forest strategy**
- **Sustainable Development Goals**
- **COP21**

- **BIC's positioning and outreach** with regard to EU Policies to endeavour a bioeconomy favourable policy environment
- Communications and stakeholders relationships
- Advocacy through the **European Bioeconomy Alliance (EUBA)**
 - Position papers: circular economy, waste package, biomass supply, green public procurement
 - Letters to EU policy makers
 - Meetings with EC, MEPs, Perm Reps, ...

EUBA: informal alliance of trade associations

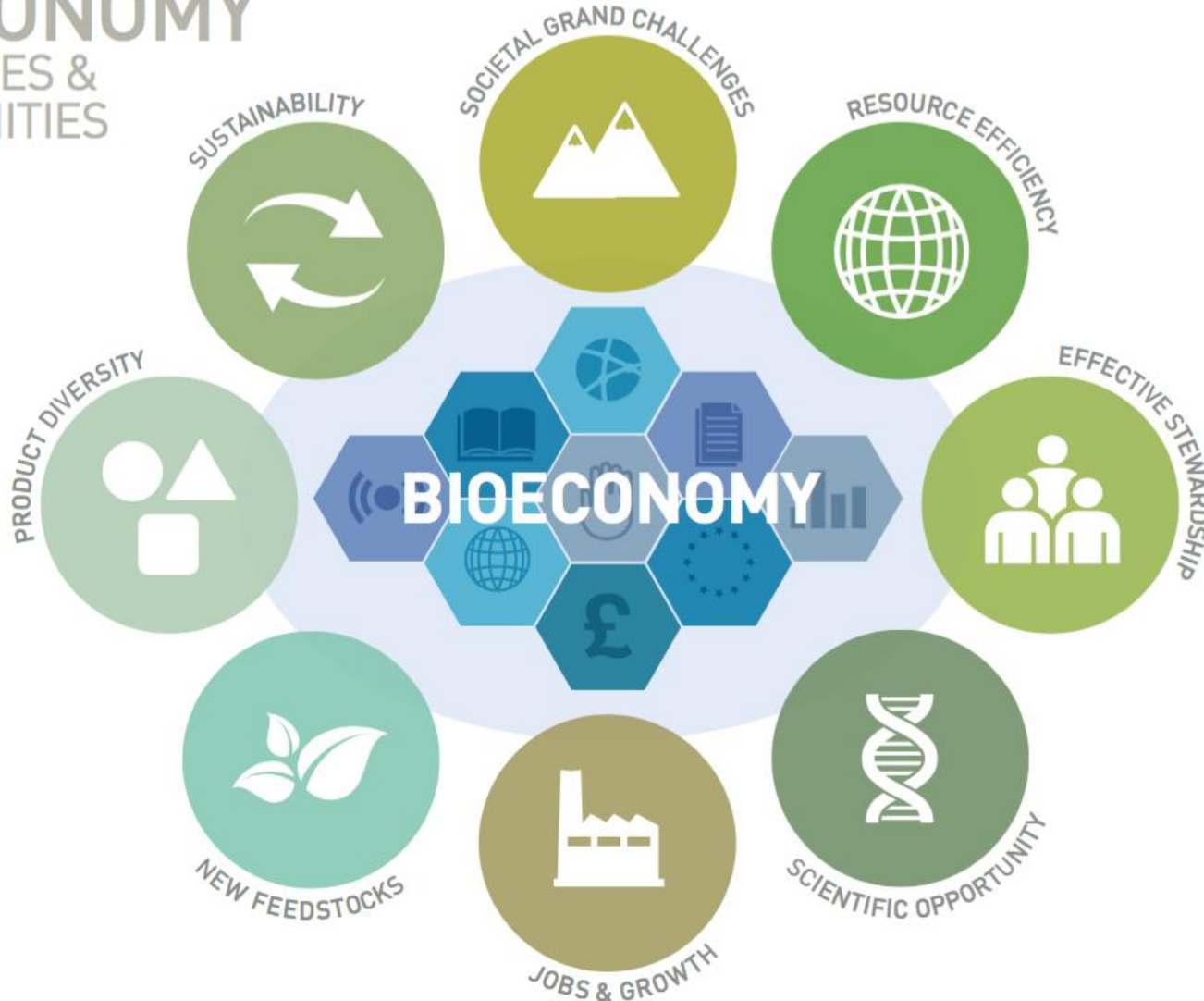


Forest-based Sector
Technology Platform



BIOECONOMY

CHALLENGES & OPPORTUNITIES



A photograph of a misty forest with tall, thin trees. Sunlight filters through the canopy, creating a hazy, golden atmosphere. The ground is covered in fallen leaves and low-lying vegetation.

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