



# SESSION 1

BBI JU  
Info Day 2016

@BBI2020  
#BBIInfoDay



**Welcome**

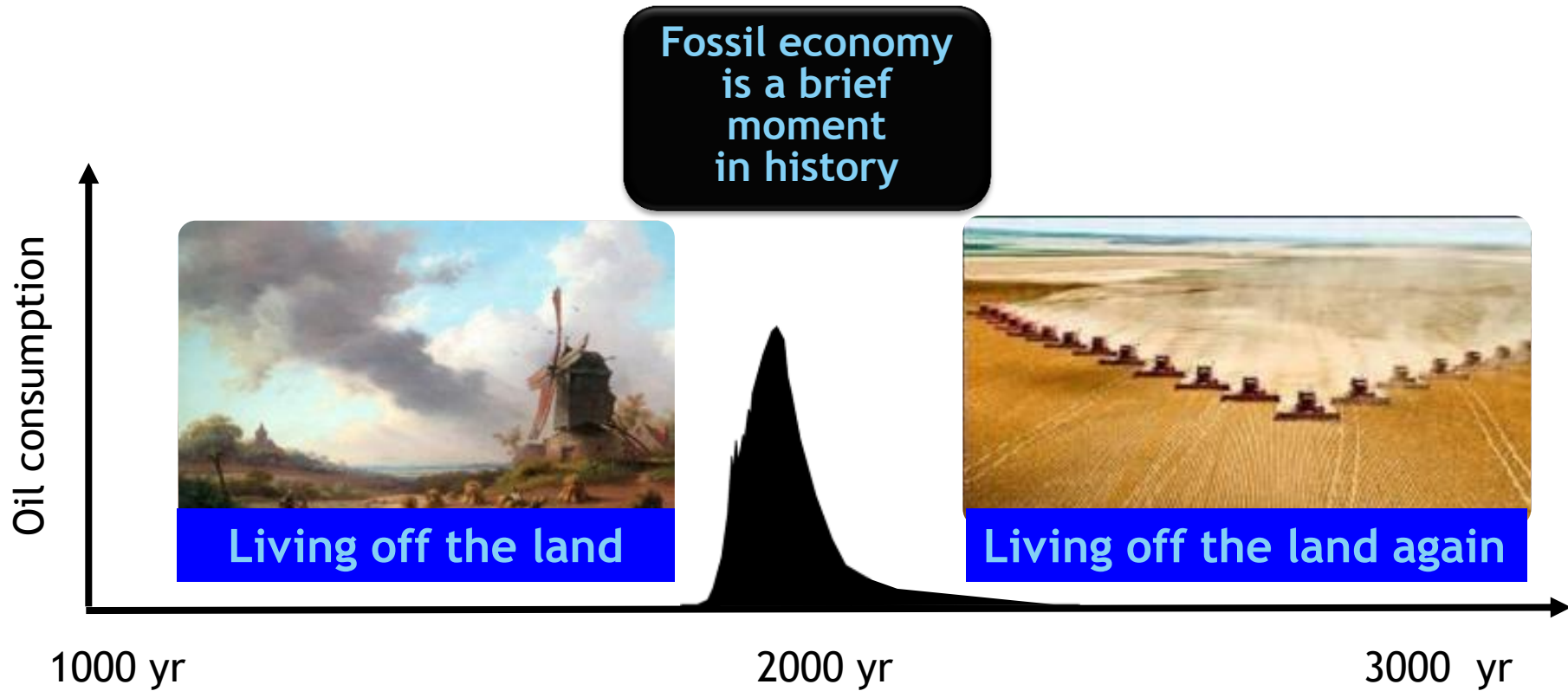


**Philippe MENGAL**  
Executive Director BBI JU  
Info Day 21 April 2016



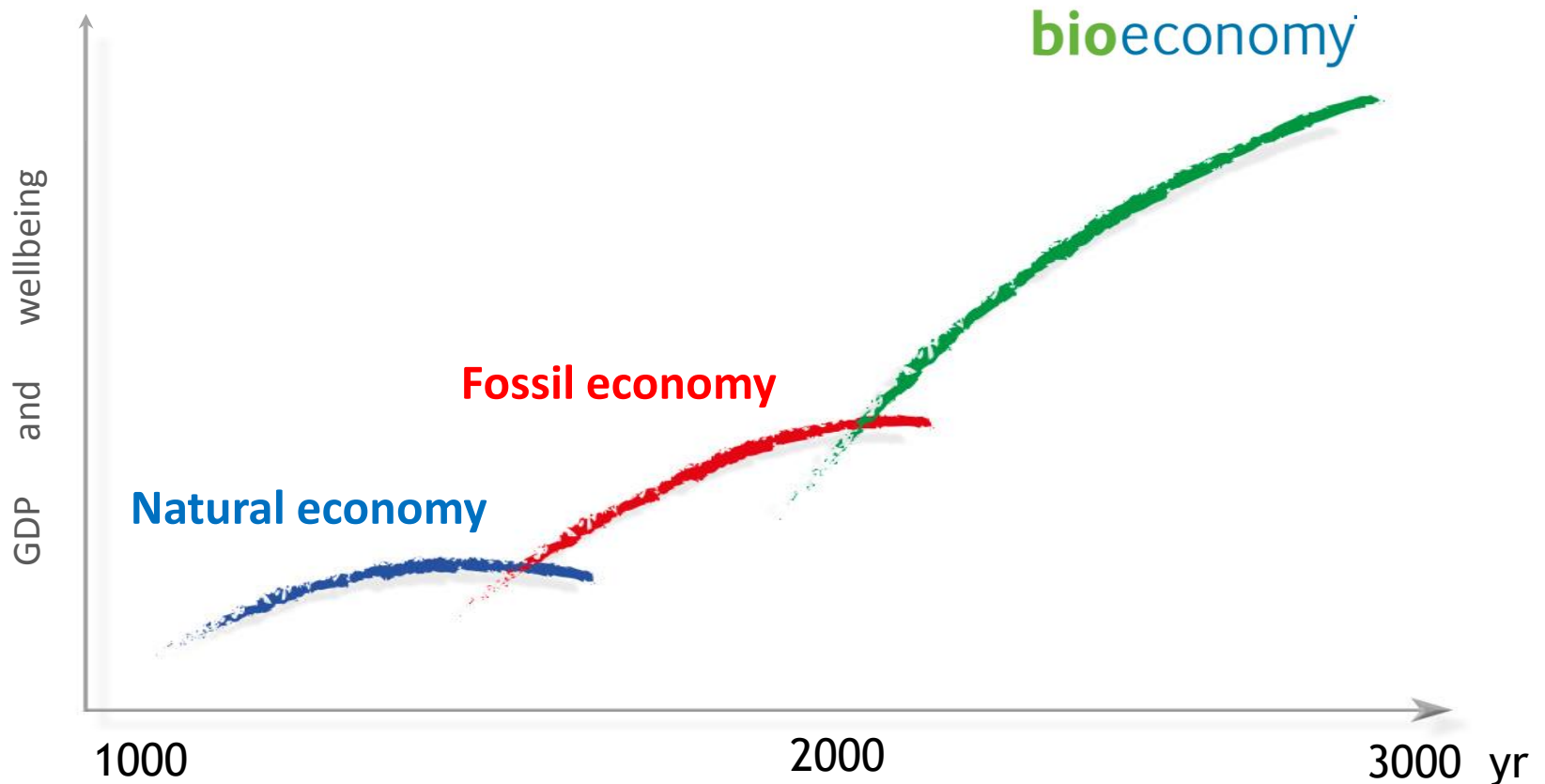


# The bioeconomy is already a reality...





# Do we want it to happen here - with Europe taking the lead ?





# A Public-Private Partnership for European Bio-based Industries?



**Philippe MENGAL**  
Executive Director BBI JU  
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# Bio-based industries value chains in 3 segments

BBI value chains represent 3.2 million jobs and € 600bn turnover but are **extremely fragmented** between **actors** and across **geographical boundaries**

- Industrial side-streams
- Municipal waste
- Waste water
- Algae
- Wood side-streams from forestry
- Ligno-cellulosic & fiber crop
- Agriculture crops

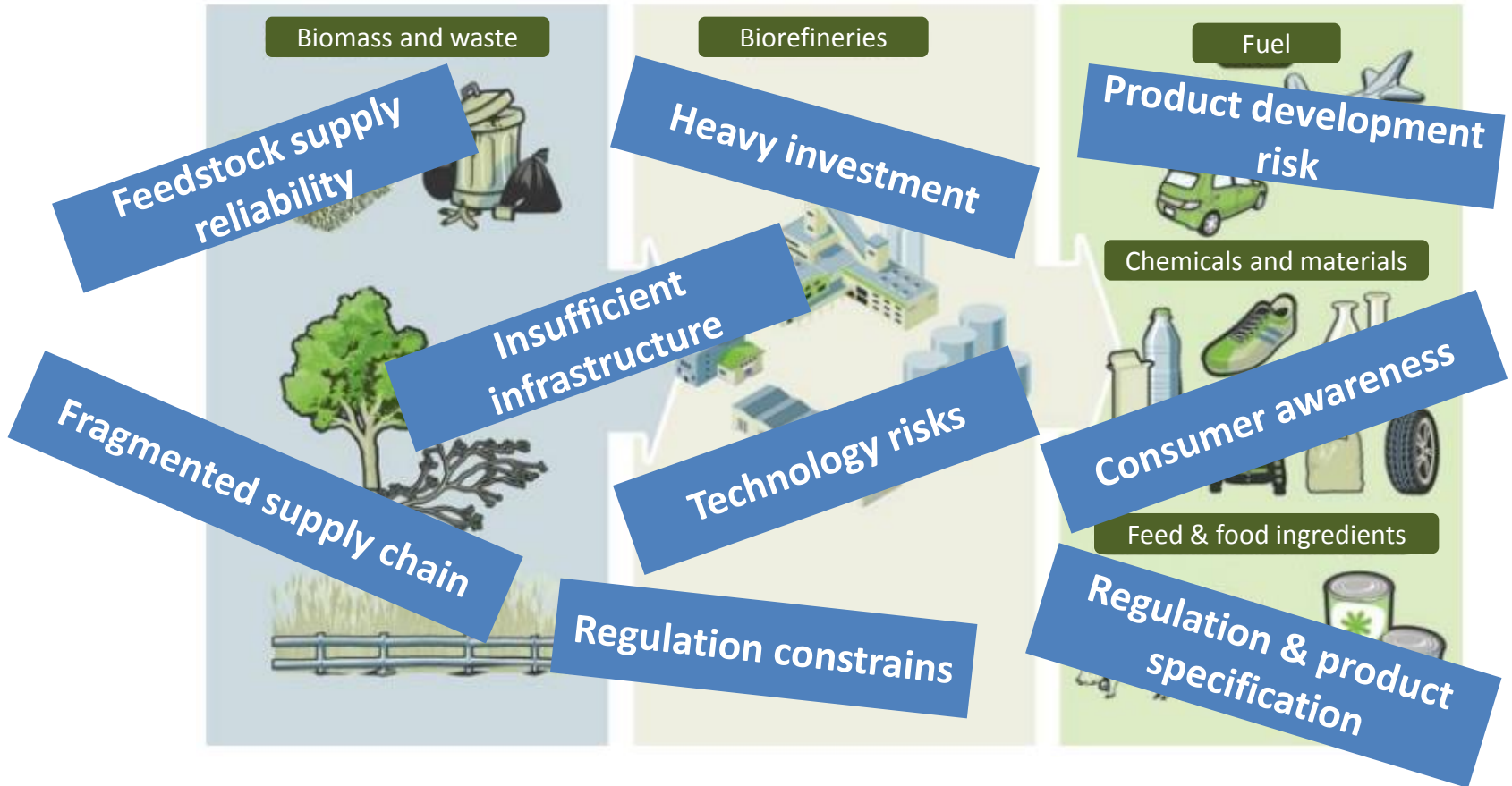


- Biofuel
- Bioplastics
- Biopolymers
- Chemical building blocks
- Biosolvent
- Surfactants
- Biolubricants
- Coatings
- Textiles
- Pharmaceuticals
- Food & feed ingredients



# Bio-based industries value chains

Bio-based industries value chains are facing several **challenges** and **risks** to further develop





## Why BBi Joint Undertaking was part of EU Bioeconomy strategy in 2012...

European public-private partnership was needed to:

- **De-risk** investments
- **Organize** the value chains
- Reach **critical mass** of this 'emerging' sector
- **Pool resources** from public & private sectors, to create a common platform
- Have **joint approach**, across sectors & geographies
- Offer **joint financial** commitment and a jointly defined programme
- Leverage **additional investments**
- Implement **clear framework** that brings **clarity for activities & investments**
- Ensure **long term stability** and predictability





What is BBi doing ?



# About BBI

- Public-Private Partnership between European Commission & BIC supporting R&I for bio-based industries
- BBI Budget: € 3.7 billion (25% EU - 75% industry)
- Independent legal entity since 26 October 2015
- Horizon 2020 rules for participation
  - Openness: call are open
  - Transparency : rules clear and know in advance
  - Excellence: quality of proposals





# BBI's mission

**Implement, under Horizon 2020 rules, the Strategic Innovation and Research Agenda (SIRA) developed by the industry**

BBI JU programme office team is in charge of:

- Call management
- Proposals evaluation (by independent expert panel)
- Grant Agreement preparation process
- Whole project management life cycle
- Communication, dissemination & stakeholder management
- Support to policies
- Contribution to Annual Work Plan building & SIRA review



# BBI's overall objectives

**Developing sustainable and competitive bio-based industries in Europe, based on advanced biorefineries that source their biomass sustainably by:**

- **Demonstrating new technologies** to fill the gap in value chains;
- **Developing business models** integrating all economic actors along the value chain
- **Set-up flagship biorefinery plants** deploying business models & technologies to keep investment in EU



## Expected impact for Europe by 2030

- Replace 30% of oil-based chemicals & materials
- Diversify & grow farmers' revenues
- Create 700,000 jobs – 80% in rural areas
- Reduce EU dependency on import of fossil raw materials, protein and P - K
- Develop potential of agriculture waste & forestry residues
- Shift to bio-based products → average 50% GHG emission reduction



# Unique ways that BBI helps to boost investment

- Industry driven → Call topics defined by BIC
- Flagship actions: first-of-a-kind in EU biorefineries at commercial scale
- Industry in kind contribution criteria for impact
- Widening participation strategy
- Strong interaction with Regions
- Builds synergies with other initiatives



# BBI target for a sustainable bio-based economy thanks to focus on:

- Waste valorisation (industry, agriculture and municipalities)
- Reconversion of marginal lands and semi-arid areas
- Focus on 2nd generation biorefineries for biofuels
- Increase productivity of industrial multipurpose crops
- New feedstock supply chains: ligno-cellulosic residues from agriculture and forestry residues
- Protein P & K recovery
- Reduction of fertilisers input and crop yield increase

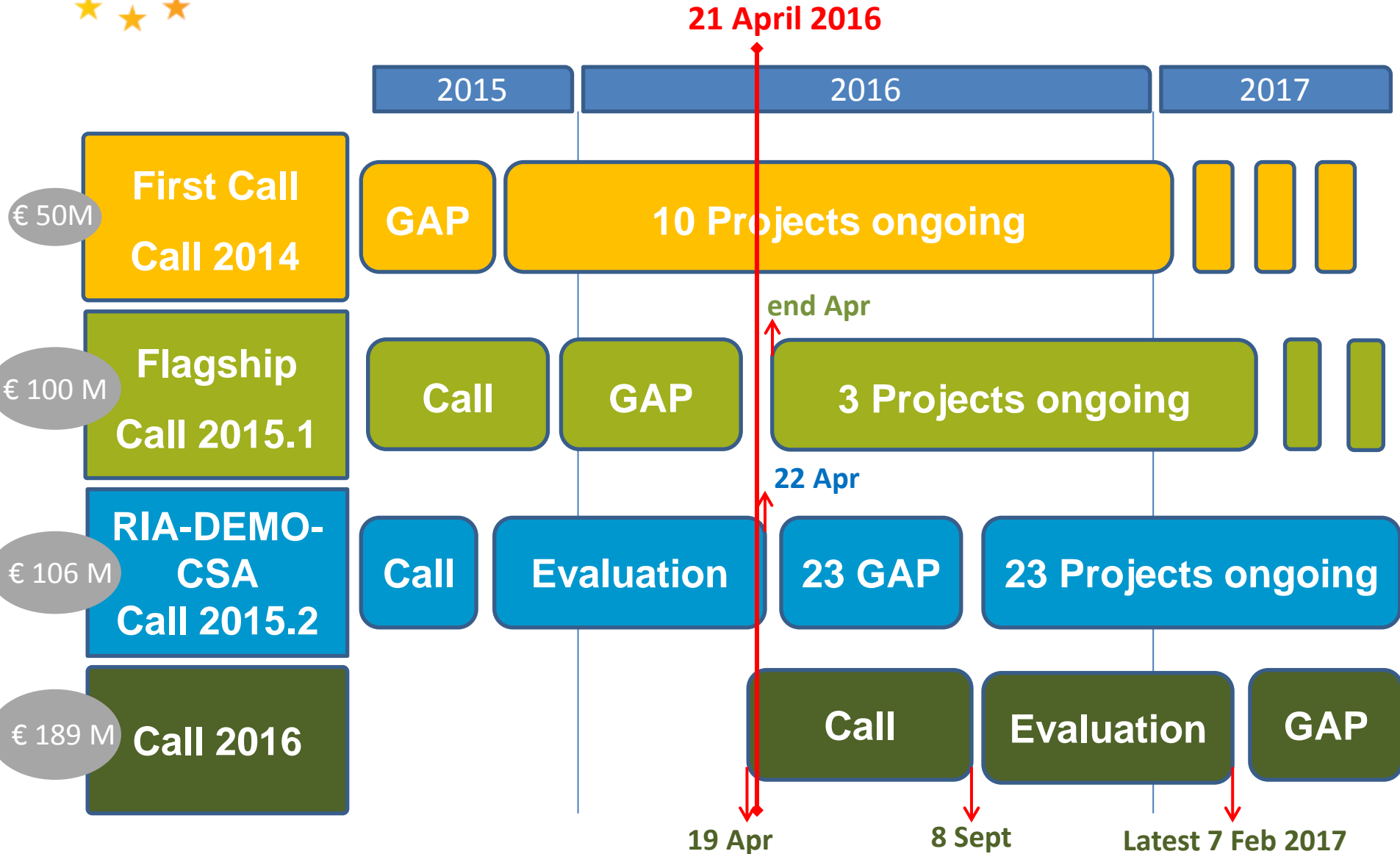


What have we achieved so far ?



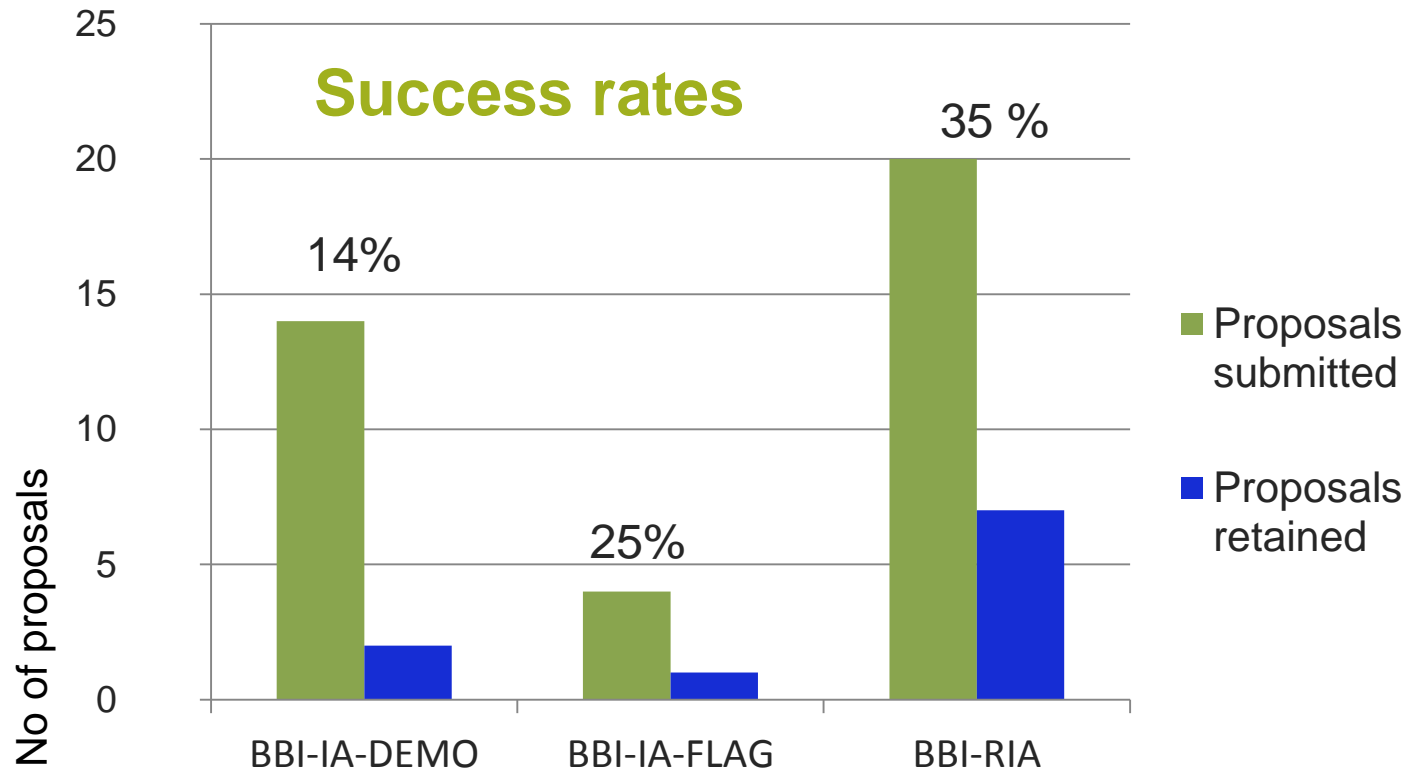


# BBI Calls current status





# BBI JU Call 2014

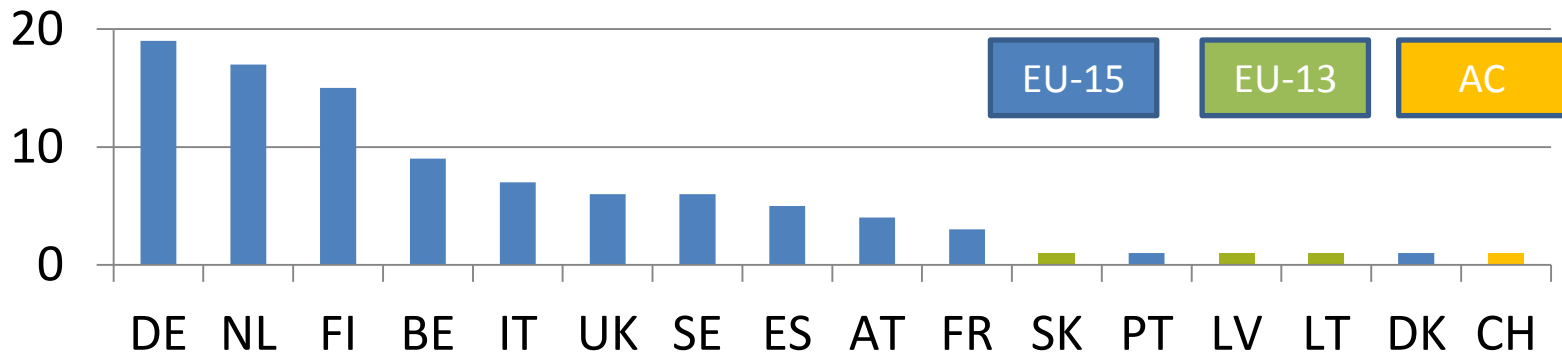


- 38 eligible proposals 10 retained for funding → success rate: 26%
- 1 Flagship - 2 Demo - 7 RIA
- More information on the projects: BBI JU website and CORDA:

<http://www.bbi-europe.eu/projects>



# BBI JU Call 2014 – lessons learned



- ‘Differences in participation’ - some countries, regions and stakeholders were proving to be less active
  - BBI JU strategy on widening the participation
- BIC memberships helps: Consortium with at least one full BIC Member had higher success rates
- Good SMEs participation: 20% of requested budget



# Call 2015.1 – 3 Projects (\*)

(\*)Proposals invited to Grant Agreement Preparation in Dec 2015- GA just signed

Ranking list: 3 out of 9 proposals above the threshold

→ 33 % success rate

→ Contribution to well-balanced portfolio

→ Significant in kind financial contribution from industry

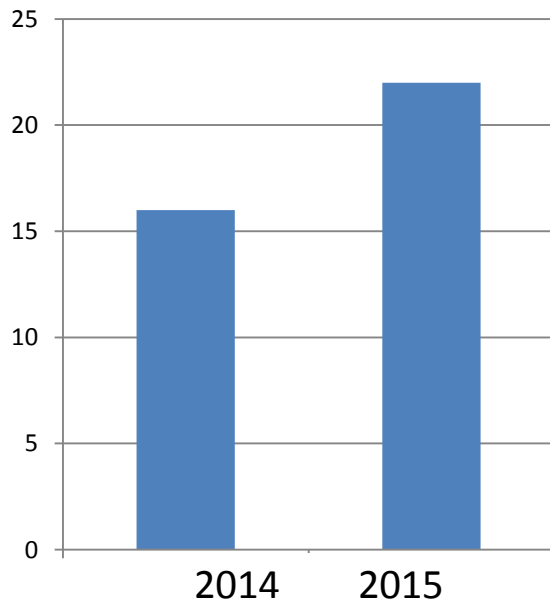
TOPIC	FOCUS
BBI.VC1.F1	<b>BIOETHANOL</b> : second generation bioethanol production built on lignocellulosic non-food feedstock (straw)
BBI.VC2.F2	<b>Microfibrillar Cellulose (MFC)</b> : large-scale supply and market creation of MFC to demonstrate an industrial symbiosis between the biomass and the forest industry
BBI.VC1.F1	<b>CELLULOSIC ETHANOL</b> : Cellulosic ethanol from unused crop residues and crops grown on marginal lands



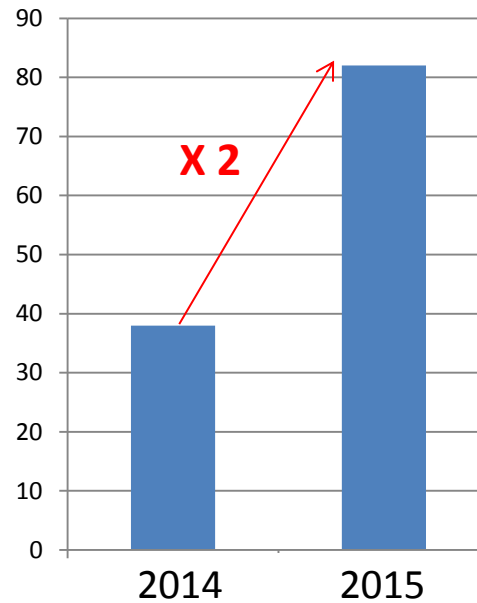
# Call 2015 vs Call 2014

Submission statistics : we observed an increase in overall mobilisation

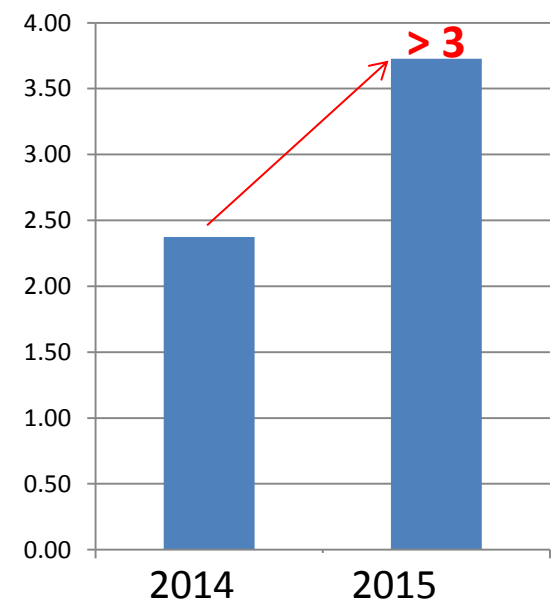
Topics



Proposals

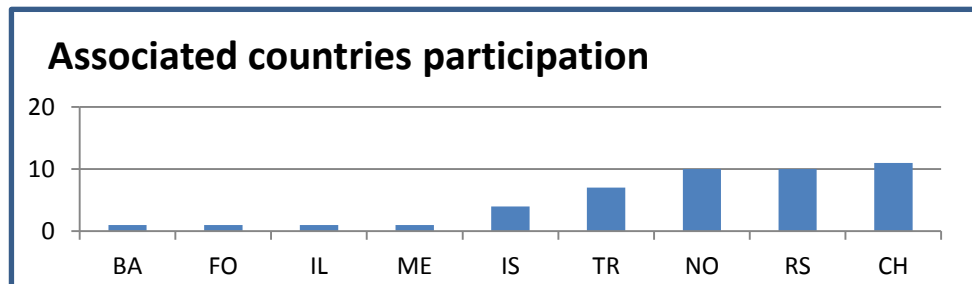
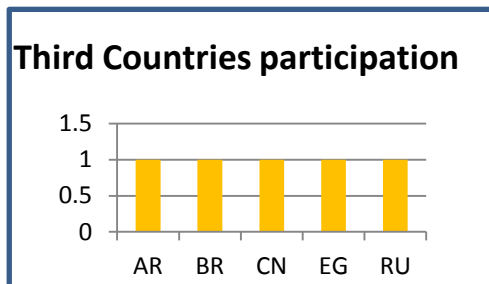
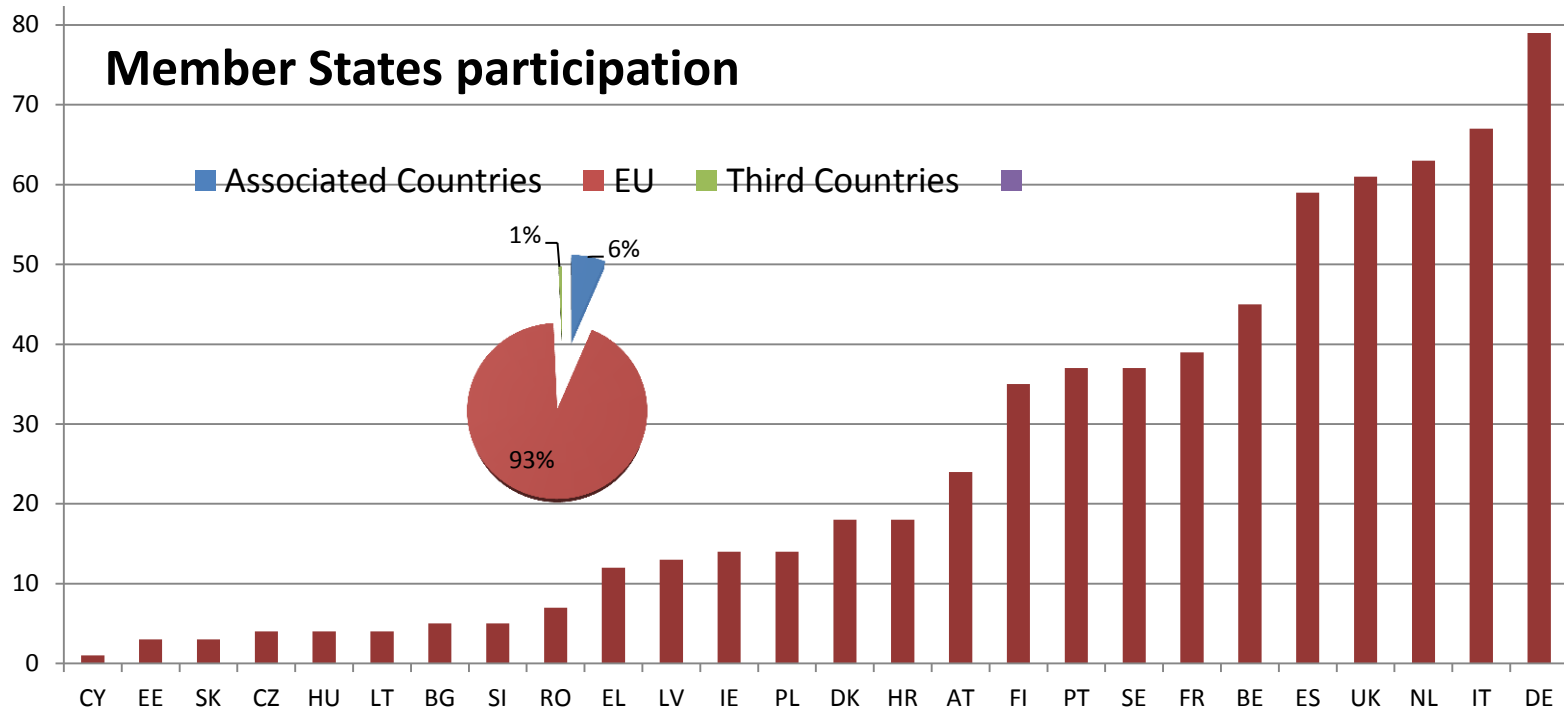


Proposals /Topic



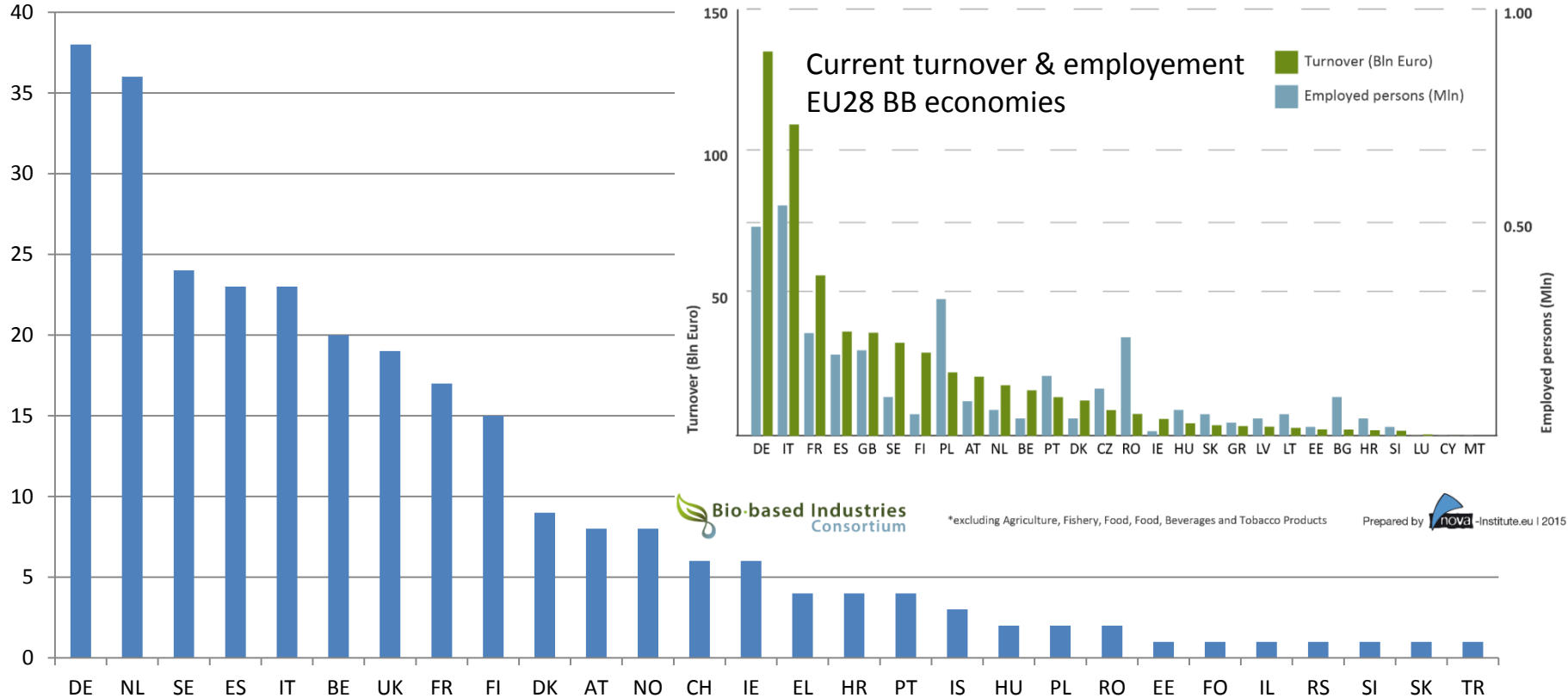


# Call 2015.2 – Submission statistics and showing a better distribution...



# Call 2015.2 : 23 proposals invited to GAP on 22 April 2016

Call 2015.2 : Participants per country (280 participants in total)





# Call 2015.2 Overview of evaluation

The outcome of the evaluation confirms a significant mobilisation of the BBI sector with high quality projects and an optimal topic coverage

- Quality of proposals was very high - in total 47% of proposals are above threshold
- In total 23 proposals out of 73 retained for funding, showing 32% success rate,
- Optimal topic coverage consuming all the 106 M€ budget
- Good share of SMEs in total number of participants in proposals retained for funding: 37%
- BIC membership help: better success rate
- Confirmation of industry financial contribution: I Calls 2014 and 2015 leverage effect better than expected





**Thank you!**