



BBI JU: General overview, Call 2017 opportunities, funding scheme & tips for a successful application



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Info day on BBI JU,
Zagreb, 16th March 2017





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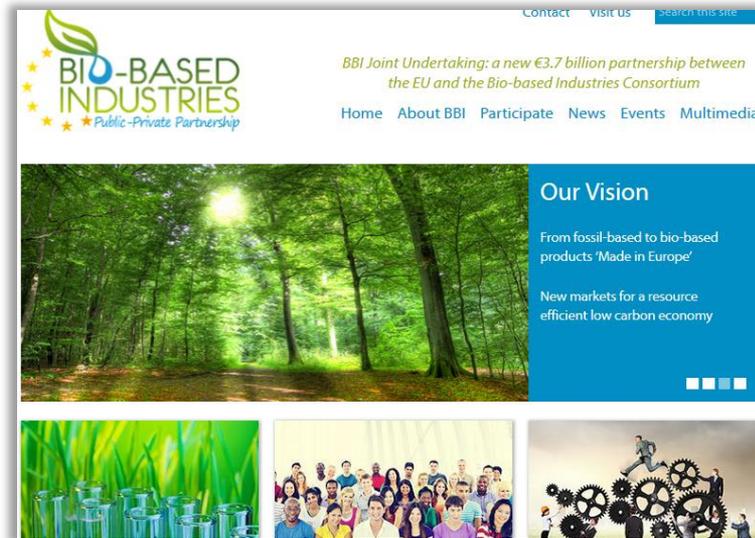
Funding scheme

Evaluation process & How to prepare a
successful proposal



About BBI JU

- **Public Private Partnership (PPP)** between European Commission (EC) & Bio-based Industries Consortium (BIC) supporting R&I for Bio-based industries
- **Budget** € 3.7 billion (27% EU + 73% industry)
- **Independent** legal entity since 26 October 2015
- **Horizon 2020** rules for participation and principles: openness, excellence and transparency.





BBI's 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



How are the BBI objectives implemented?



Strategic level: SIRA

Strategic Innovation and Research Agenda
guiding document developed by BIC



Operational Level Annual Work Plan

Drafting – Approval – Supporting



+ Scientific Committee
+ States Representatives Group



Call for proposals
(RIAs, IAs, CSAs)
Your project



Publication &
Implementation

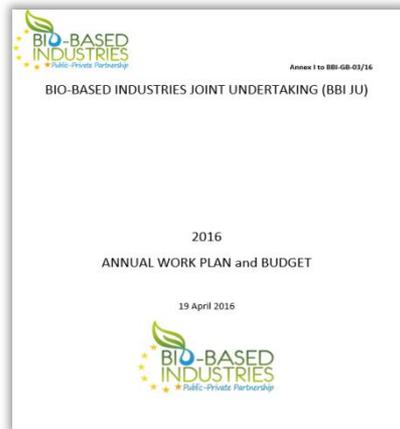




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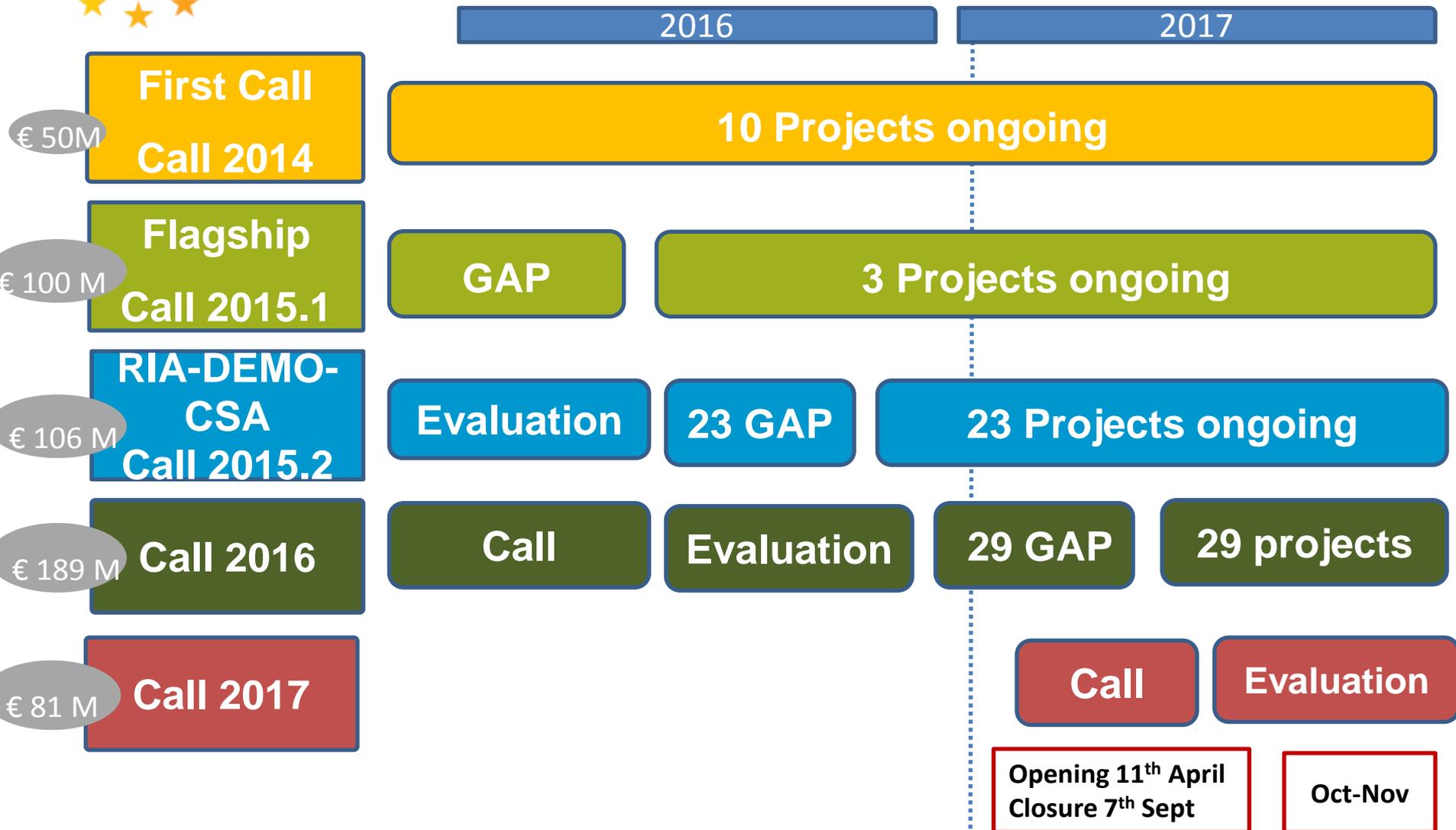
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BBI calls: current status

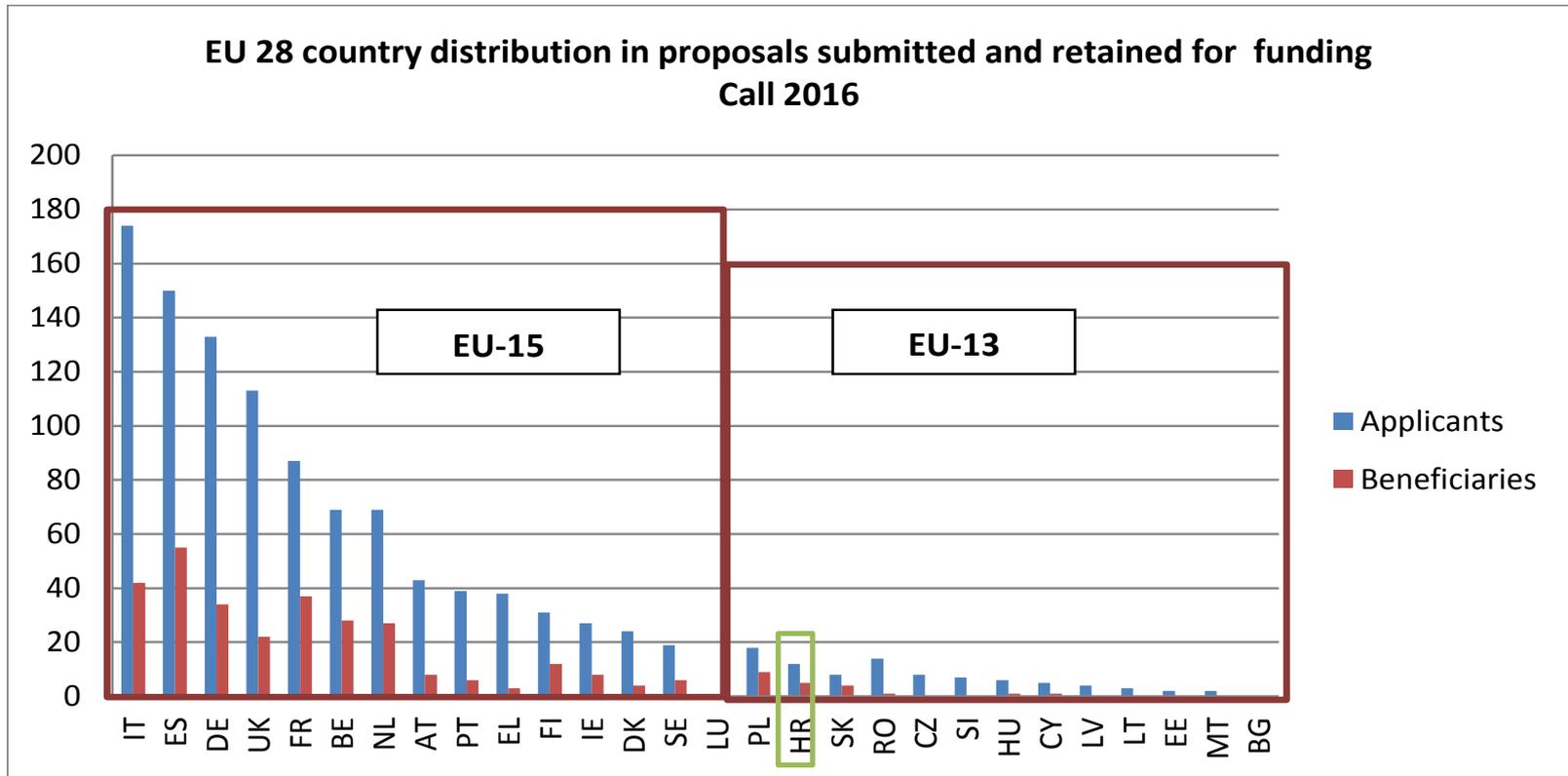




Call 2016: 29 proposals invited to GAP

103 proposals, → 29 invited to GAP
1190 applicants → 327 beneficiaries

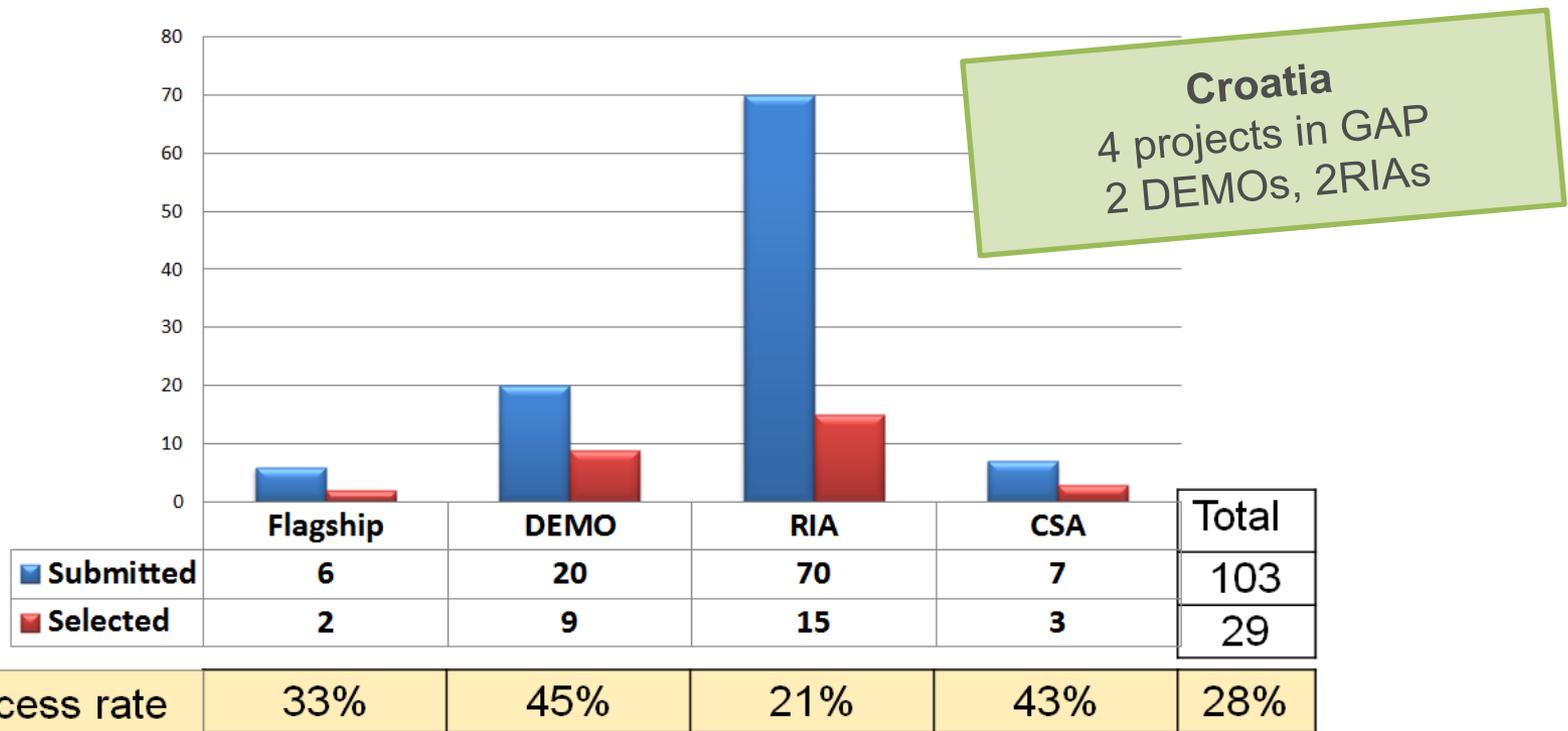
Croatia
12 applicants
5 beneficiaries





Call 2016: 29 proposals invited to GAP

Call 2016: Proposals submitted and selected per type of action

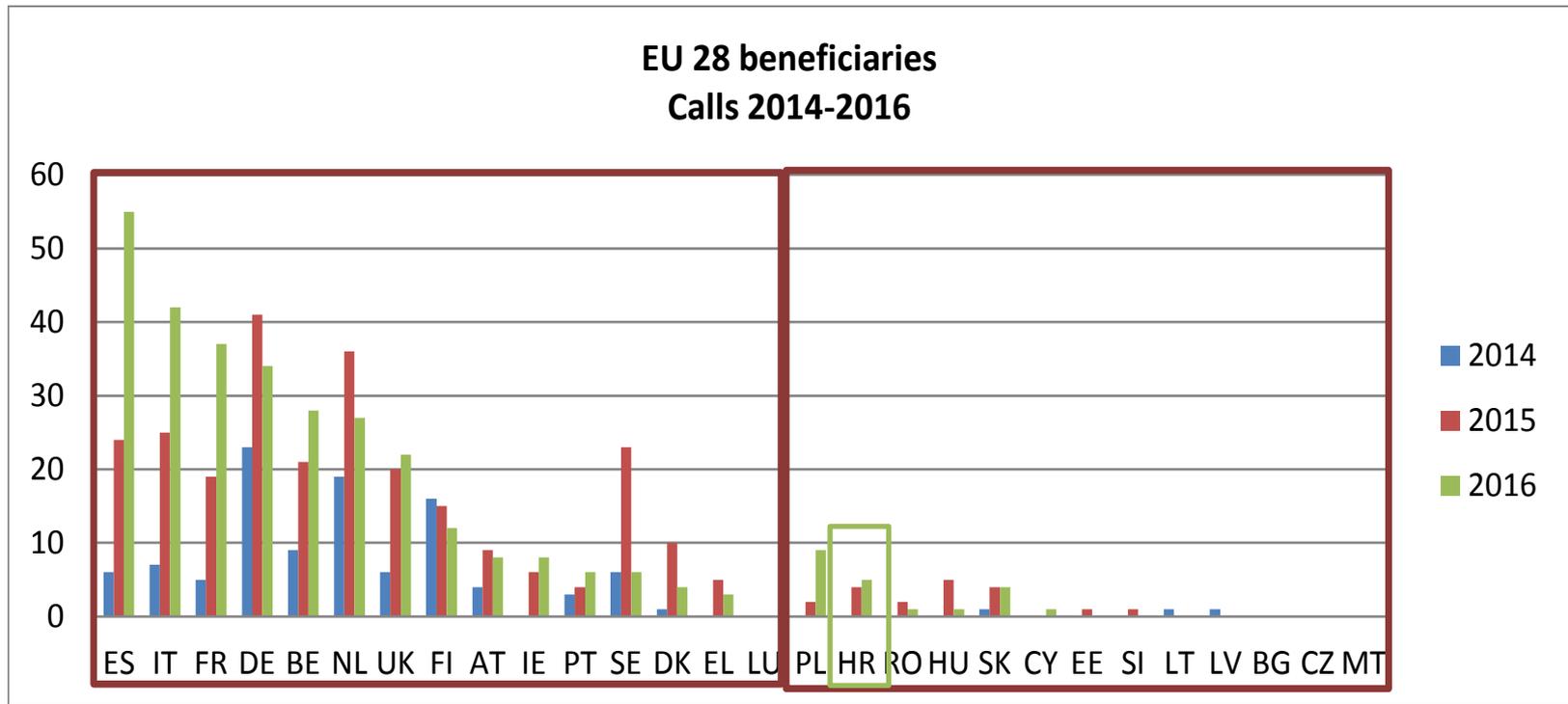




Total beneficiaries in calls 2014, 2015 and 2016

Total beneficiaries: 729 (incl. multiple participation)

Croatia
9 beneficiaries





Current ongoing projects with Croatian beneficiaries

- **HYPERBIOCOAT (RIA)** *High performance biomass extracted functional hybrid polymer coatings for food, cosmetic and medical device packaging-* 1 Sept. 2016
- **FUNGUSCHAIN (DEMO)** *Valorisation of mushroom offcuts to obtain high value products-* 1 Nov. 2016
- **PULPACKTION (DEMO)** *Optimised moulded pulp for renewable packaging solutions-* 1 Oct. 2016

More info: <https://www.bbi-europe.eu/projects>



BBi JU ongoing projects and proposals in GAP

Value Chains	RIA	DEMO	Flagship
VC1 (lignocellulose)	US2GREENCHEM Zelcor LIBRE HYPERBIOCOAT ●	ValChem GreenSolRes BIOFOREVER ● ● ●	BIOSKOH LIGNOFLAG ●
VC2 (forest-based)	SmartLi Greenlight PROVIDES NeoCel TECH4EFFECT EFFORTE	PULPACKTION FRESH ●	EXILVA
VC3 (agro-based)	Carbosurf PROMINENT LIBBIO ●	Pulp2Value AgriMax Funguschain GreenProtein LIPES	FIRST2RUN ●
VC4 (organic waste)	NewFert ● ● ●	● ●	
across VCs	EnzOx2 ● InDIRECT ● BIOrescue ● ● ●	DEMETER ● ● ●	
Aquatic Biomass	MACROCASCADE ● ● ●		
	CSA		
Across VCs		BioCannDo STAR4BBi BIOWAYS	● ● ●



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Type of Actions

- **Research and Innovation Actions (RIA)**
- **Innovation Actions (IA)**
 - Demonstration actions
 - Flagship actions

Coordination and Support Actions (CSA)

cross-sectorial challenges, supporting VCs,
integration, networking...



Technology Readiness Levels (TRL)*



TRL 1 – basic principles observed

TRL 2 – technology concept formulated

TRL 3 – experimental proof of concept

Assessed in the
evaluation process

RIA

TRL 4 – technology validated in lab

TRL 5 – technology validated in relevant environment

TRL 6 – technology demonstrated in relevant environment

DEMO

TRL 7 – system prototype demonstration in operational environment

FLAGSHIP TRL 8 – system complete and qualified

TRL 9 – actual system proven in operational environment

* Targeted at the end of the project

Source: TRLs are described in Part G of the [General Annexes](#) to the EC Work Programme.



KPIs in call 2017

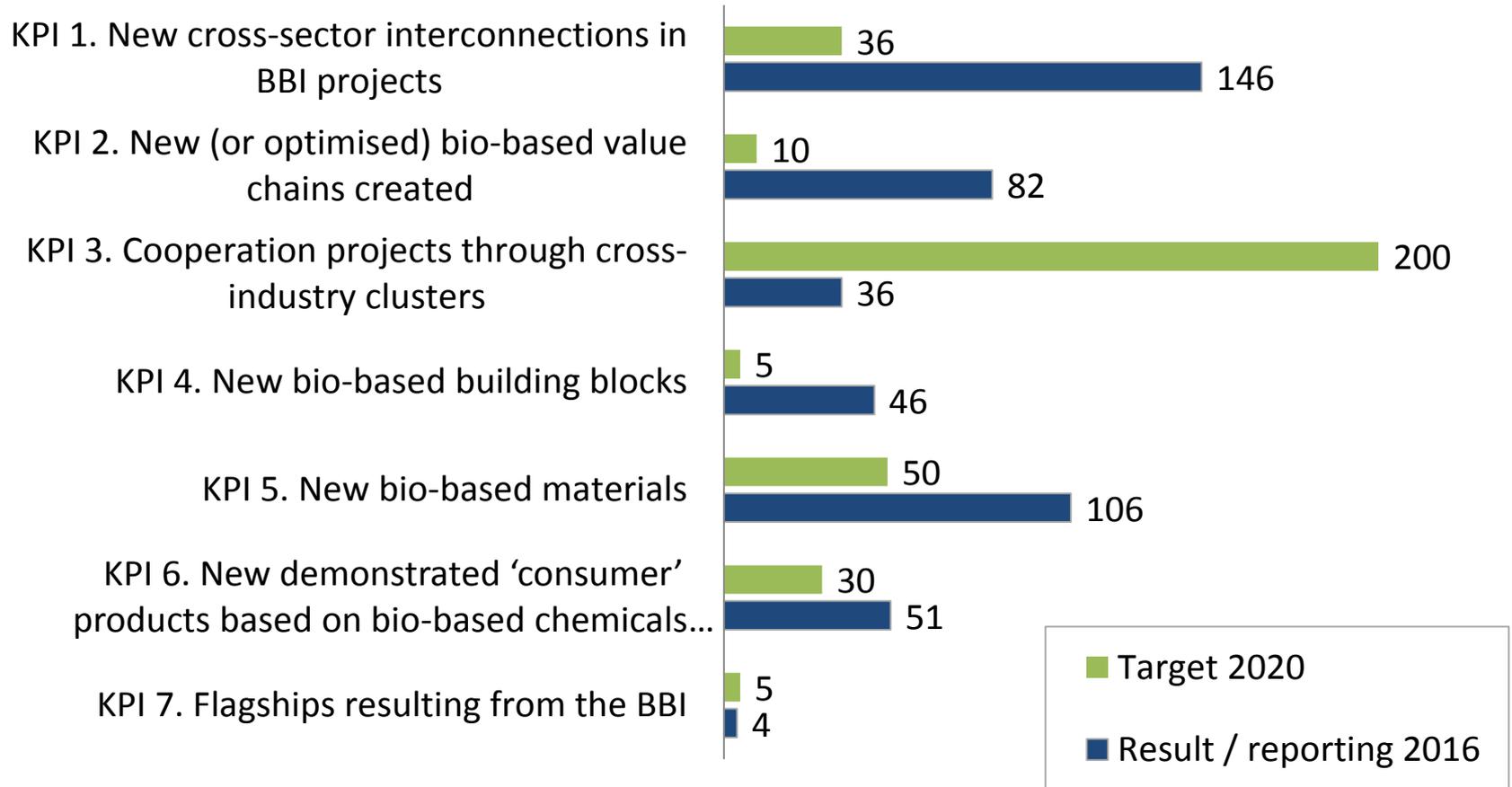
KPIs addressed in the expected impacts

Assessed in the
evaluation process

- KPI 1** New cross-sector interconnections in bio-based economy clusters
- KPI 2** New bio-based value chains
- KPI 3** Cooperation projects
- KPI 4** New building blocks based on biomass of European origin validated at demonstration scale
- KPI 5** New bio-based materials
- KPI 6** New demonstrated 'consumer' products based on bio-based chemicals and materials
- KPI 7** Flagships resulting from BBI JU funded projects
- KPI 8** 'TRL gain': validated technologies that fill gaps in value chains

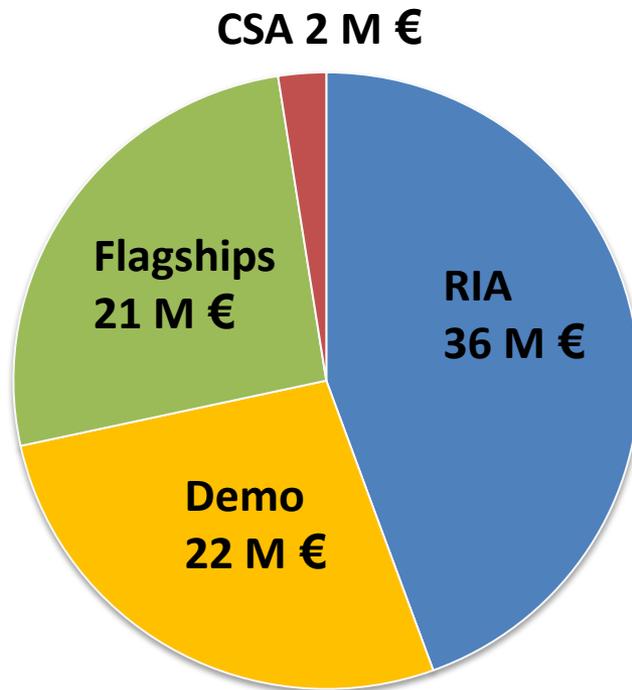


KPIs: preliminary results from calls 2014 and 2015 projects





Budget distribution Call 2017 - Type of Actions -



Indicative total BBI JU
budget 81 M €

In addition substantial resources from industry
expected (>40 M €)



Strategic Orientations

Topics revolve around 4 strategic orientations for 2017 and 2018:

1. Fostering a sustainable biomass-feedstock supply to feed both existing and new value chains (3 topics: R1, D1, D2)
2. Optimising efficient processing for integrated biorefineries (3 topics: R2, R3, F1)
3. Developing innovative bio-based products for specific market applications (8 topics: R4, R5, R6, R7, D3, D4, D5, F2)
4. Creating and accelerating the market uptake of bio-based products and applications (2 topics: S1, S2)



7 RIA topics in Call 2017

Objective: Filling specific gaps in the value chain by validating a technology, process or materials/product at TRLs 4/5

- BBI JU Budget: € 36 million // Grant: € 2-5 million per proposal

Feedstock	Valorisation of gaseous side streams (R1)
Processing	Pre-treatment and separation of lignocellulosic feedstock (R2), Extremophiles & extremozymes for processing (R3)
Products	Proteins and other bioactive ingredients (R4) Novel bio-based chemical precursors (R5) Bio-based plastics (R6) Novel secondary bio-based chemicals (R7)
Market Uptake	



5 Demo topics in Call 2017

Objective: demonstration of the technical and economic viability of a new or improved technology, process, product or service or value chain, achieving TRL 6-7. They must address the **whole value chain**, from feedstock sourcing to market applications

BBi JU Budget € 22 million // Grant: up to € 15 million / proposal

Feedstock	Valorisation of liquid and solid side streams (D1) Valorisation of algae into materials/additives (D2)
Processing	
Products	Bio-based chemicals without significant fossil-based counterparts (D3) Bio-based fertilizing products (D4) Bio-based fibres and materials for large-volume applications (D5)
Market Uptake	



Flagships in Call 2017

Objective: deployment of a technology, which has been already demonstrated leading to a system, which is complete and qualified (TRL8) for successful commercial operation (large scale production facility in Europe)

BBI JU Budget € 21 million / Grant: up to € 21 million / proposal

Feedstock	
Processing	Integrated 'zero waste' biorefinery utilising all fractions of the feedstock for production of chemicals and materials (F1)
Products	Large scale production of proteins for food and feed applications from alternative, sustainable sources (F2)
Market Uptake	



CSAs in Call 2017

Objective: non-technological actions supporting value chains development through various means

BBI JU Budget € 2 million // € 1 million/proposal

Feedstock	
Processing	
Products	
Market Uptake	Establish cooperation and partnership with brand owners and consumer representatives to improve market access (S1) Identify opportunities for ICT to increase efficiency of biomass supply chains for the bio-based industry (S2)



Call 2017

Indicative Timetable

Call launch:

→ Open for proposals: from 11 April 2017

Submission of proposals:

→ **Deadline: 7 September 2017**

Information on the outcome of the evaluation process:
max 5 months after the proposal submission deadline

→ By: 7 Feb 2018

Signature of grant agreements:

max 8 months after the proposal submission deadline

→ By: 7 May 2018



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Participation & funding rates per action

Participant	RIA	IA	CSA
Large Industries	/	70%	/
SMEs	100%	70%	100%
Non profit, legal entities (Universities, RTOs, NGOs etc.)	100%	100%	100%



Financial Regime in BBI JU Calls

Industry-driven programme



the commitment of the industry is crucial

- RIA and CSA: no funding for large companies
→ specific for BBI JU
- Innovation Actions: 70% reimbursement rate
→ common for H2020

Consortium own contribution

- requesting less than funding rate
- « Additional investments »
→ specific for BBI JU

**Is positive
in evaluation**



Consortium own contribution

Industrial Contribution is crucial

BBI JU policy is to increase and **leverage the private investments**

3 types of own contribution

- **In kind:**
 - LE, in RIA and CSA: 100% of their eligible costs is own contribution – industry commitment
 - IA: up to 70% is funded, but the request can be less → visible in Part A (budget)
- **In cash:** cash contribution given to one or more partners
- **Additional investments :** Activities outside the work plan of the BBI JU contributing to the objectives of the BBI Initiative



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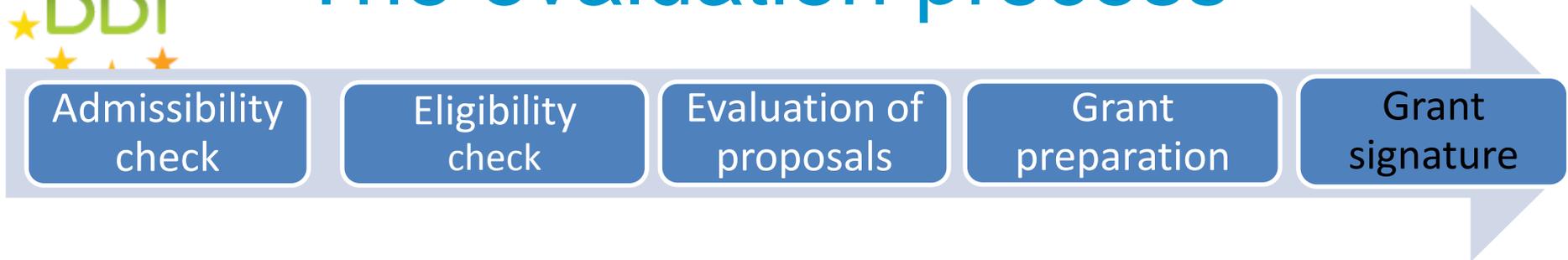
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The evaluation process



At least 3 experts for proposal





Evaluation Criteria -IA

Excellence	Impact	Quality and efficiency of the implementation
<ul style="list-style-type: none"> • Clarity and pertinence • Soundness of the concept • Credibility of the proposed approach • Extent that proposed work is ambitious, has innovation potential, and is beyond the state of the art • Coverage of the value chain (IA) 	<ul style="list-style-type: none"> • Expected impacts listed in the topic • Enhancing innovation capacity and integration of new knowledge • Strengthening the competitiveness and growth of companies • Any other environmental and socially important impacts • Effectiveness of the proposed measures to exploit and disseminate the results • Extent to which consortium contribution, including additional investment, will help maximising the impact of the action (RIA/IA) 	<ul style="list-style-type: none"> • Coherence and effectiveness of the work plan • Complementarity of the participants within the consortium (if relevant) • Appropriateness of the management structures and procedures • Soundness of the business case and business plan (IA) • Readiness of the technology for the implementation of the pilot phase, demonstration or flagship. (IA)



How to prepare a good proposal

Proposal within the scope of the topic

- **Experts evaluate proposal 'as is'...**
 - No recommendations (besides clerical errors)
 - After evaluation: no negotiation between BBI JU and proposal writers
- **...in relation to the topic text**
 - The topic text is the result of negotiations between industry & EU: every word counts
 - Make the scope of the proposal match with the scope of the call.



BBI JU evaluation criteria

- Make sure you address the (sub)criteria in the relevant section, including the BBI JU-specific (sub)criteria
 - Excellence
 - Impact
 - Implementation
- Follow structure of proposal template
 - To ensure that expert-evaluators can easily find the right answer to the right question
 - Proposal structure per ‘type of action’: see Guide for Applicants (GfA)



BBI JU scoring scale

- 3 main criteria...

- Excellence

WHAT?

- Impact

SO WHAT?

- Implementation

HOW?

Each criterion:
score of 0-5/5

- but (even more) focus on 'Impact'

- All actions: 'Impact' threshold = 4/5

- (‘Excellence’ & ‘Implementation’: 3/5)

- IAs (DEMOs & Flagships): weighting factor 1,5



Competition within budget line

- **Budget line**
 - More than 1 topic in a budget line
 - Call 2016: 4 budget lines (CSA, RIA, DEMO, F)
- **Result:**
 - If you think you're the only consortium able to submit a proposal for topic A...
 - ...it might be that your're competing with other proposals submitted under different topics in the same budget line => high-quality proposals are essential!



Thank you!



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Do you have BBI expertise?

- Go to the Participant Portal
 - <http://ec.europa.eu/research/participants/portal/desktop/en/experts/index.html>
 - ...so if you haven't registered yet, please do so and e-mail experts.bbi@bbi.europa.eu
- Better evaluators =
 - Best proposals are selected
 - BBI JU's objectives are reached