



BBI JU: Présentation general - Attendus Projets européens bioéconomie – Focus BBI

20 Avril 2020

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BBI JU Executive Director

 @philippemengal



About BBI JU



BBI JU was part of EU Bioeconomy strategy in 2012

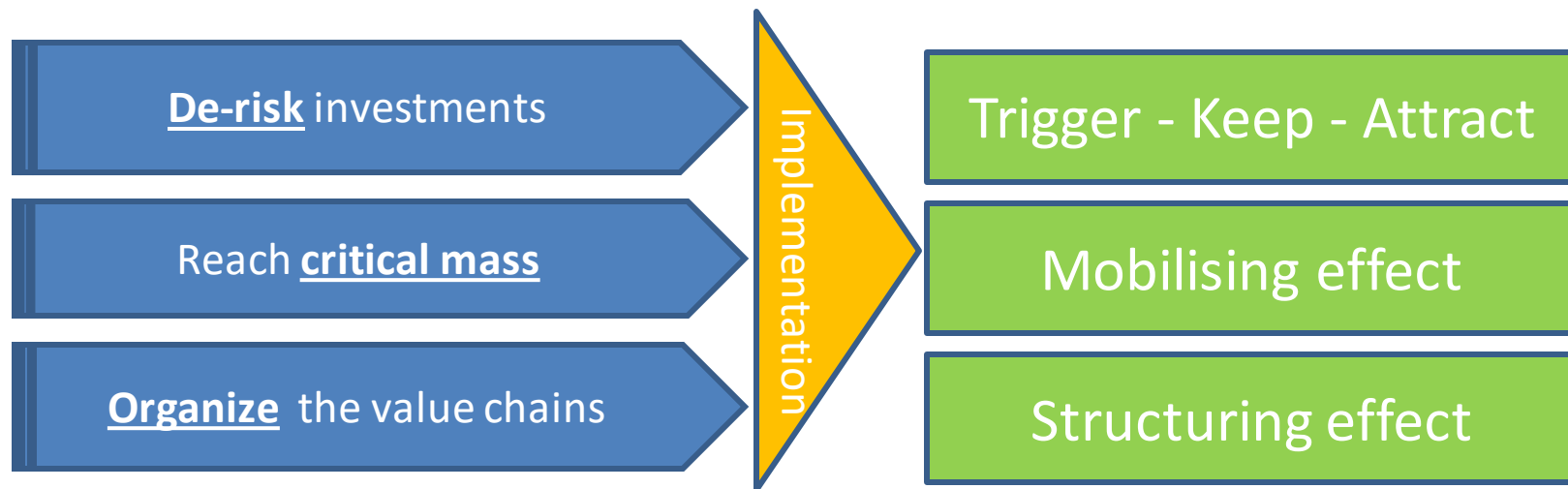


Public-Private Partnership (PPP) between European Commission & BIC (Bio-based Industries Consortium)



- BBI JU Budget: € 3.7 bn (25% EU - 75% BIC)
- Support R&I programme in Bio-based industries

European public-private partnership (iPPP) aims at:



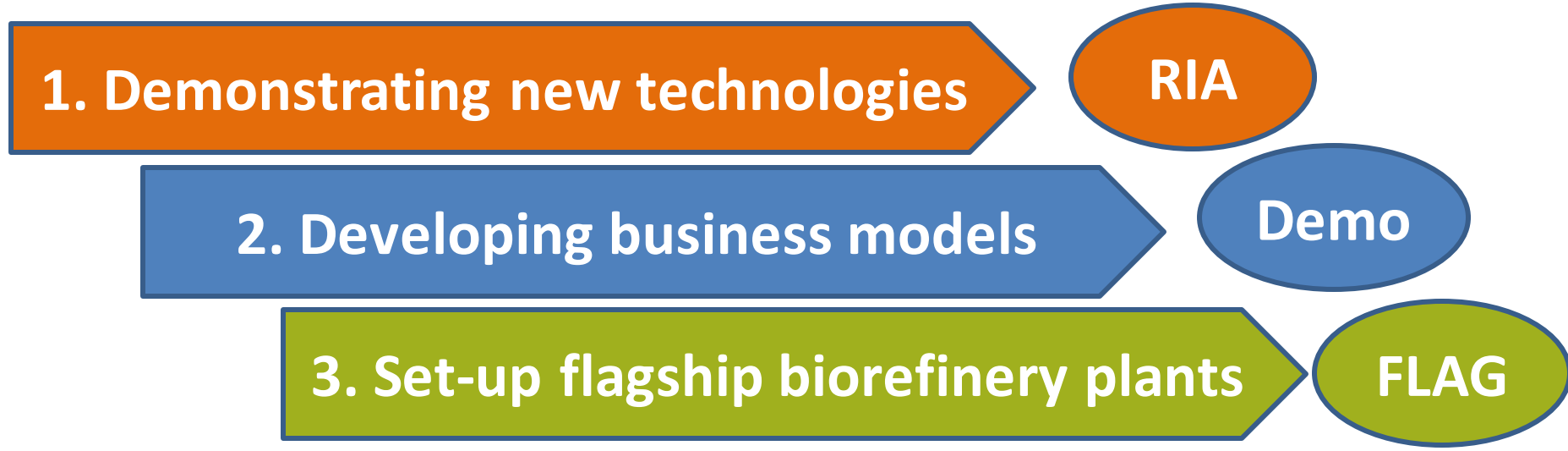


BBI JU objectives

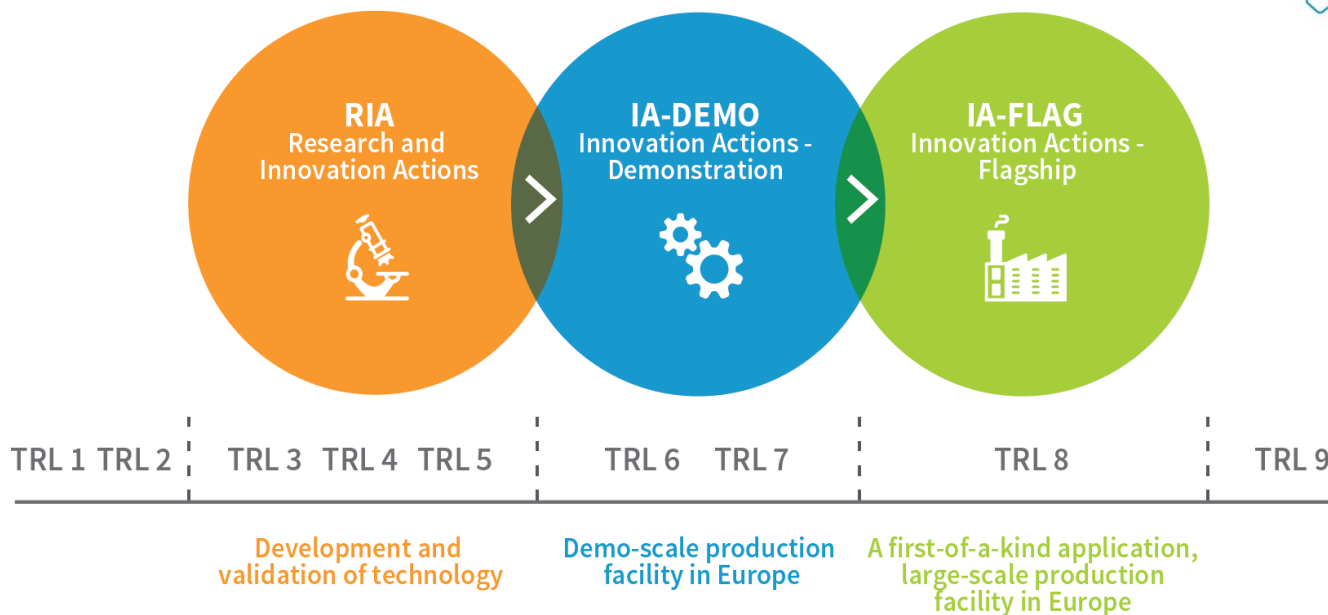


Develop sustainable and competitive bio-based industries in Europe, based on advanced biorefineries that source their biomass sustainably.

How ? By,...



BBI JU funds collaborative industry driven actions



CSA Coordination and Support Actions - no link to TRLs*

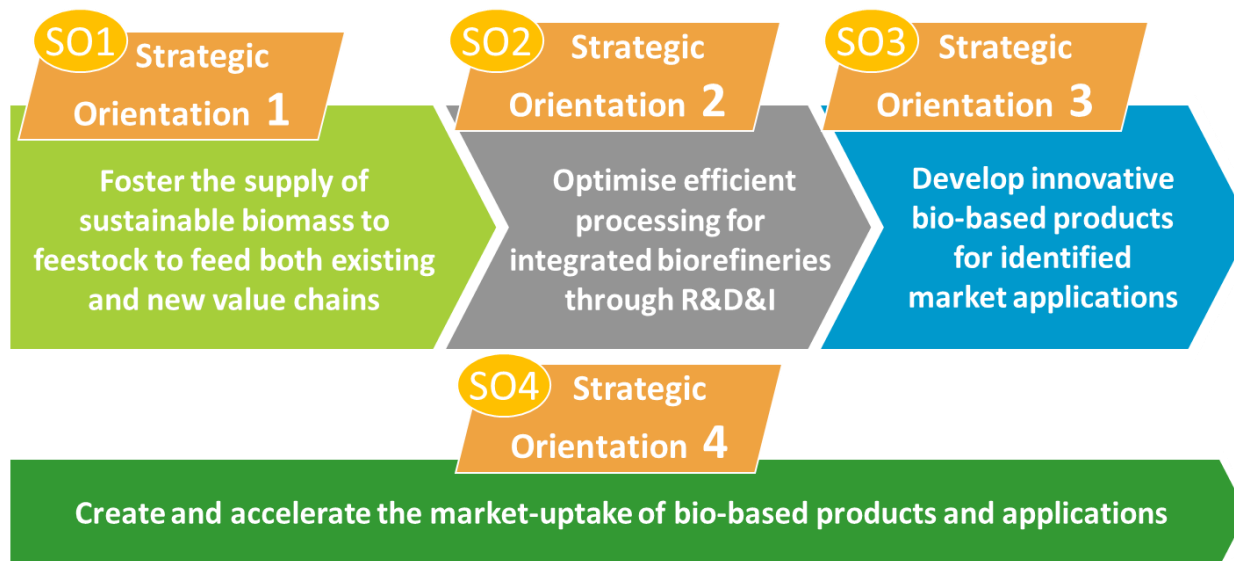
*TRL = Technology Readiness Levels



SIRA 2017 - Key adjustments

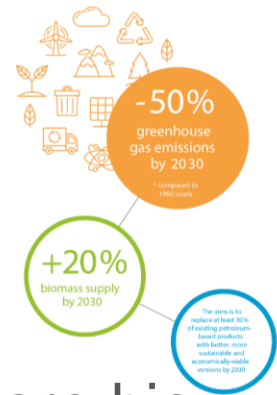
1. **‘Multi-value-chain’** approach, pursuing crossover between ‘traditional’ and historic value chains.

The SIRA value chains pillars form the four **Strategic Orientations** of the bio-based industry in Europe





Expected impact for Europe by 2030*



- Replace 25% of oil-based chemicals and 10 times more bio-based materials
- Increase by 25% mobilisation of unused sources and develop potential of agro-food “waste” & forestry residues
- Diversify and grow farmers’ revenues
- Create 700,000 jobs – 80% in rural areas
- Reduce EU’s dependency on import of strategic raw material
 - fossil raw materials;
 - protein (- 50%);
 - P & K (- 25%)
- Average 50% GHG emission reduction



Key achievements
Lessons learnt



BBI JU programme monitoring

Progress of the BBI JU programme monitored at **4 levels**:

- 1) Efficiency and output monitoring based on Horizon 2020 KPIs
- 2) Project outcomes monitored through 8 BBI specific KPIs described in the SIRA, measured against yearly project reporting and agreed objectives
- 3) Expected socio-economic and environmental impact of the BBI JU projects, based on yearly project survey
- 4) The leverage effect of private contribution versus public funding monitored on a yearly basis. The BBI JU reports in-kind contribution in projects (IKOP) and in-kind additional activities (IKAA) on a yearly basis → leverage effect calculation



BBI JU programme outputs

Calls 2014-18

101 projects



€602 m
BBI JU funding



1178 beneficiaries



33 countries



- ▲ Project coordinator
- Project partner
- 🏭 Demonstration plant
- 🏭 Flagship plant

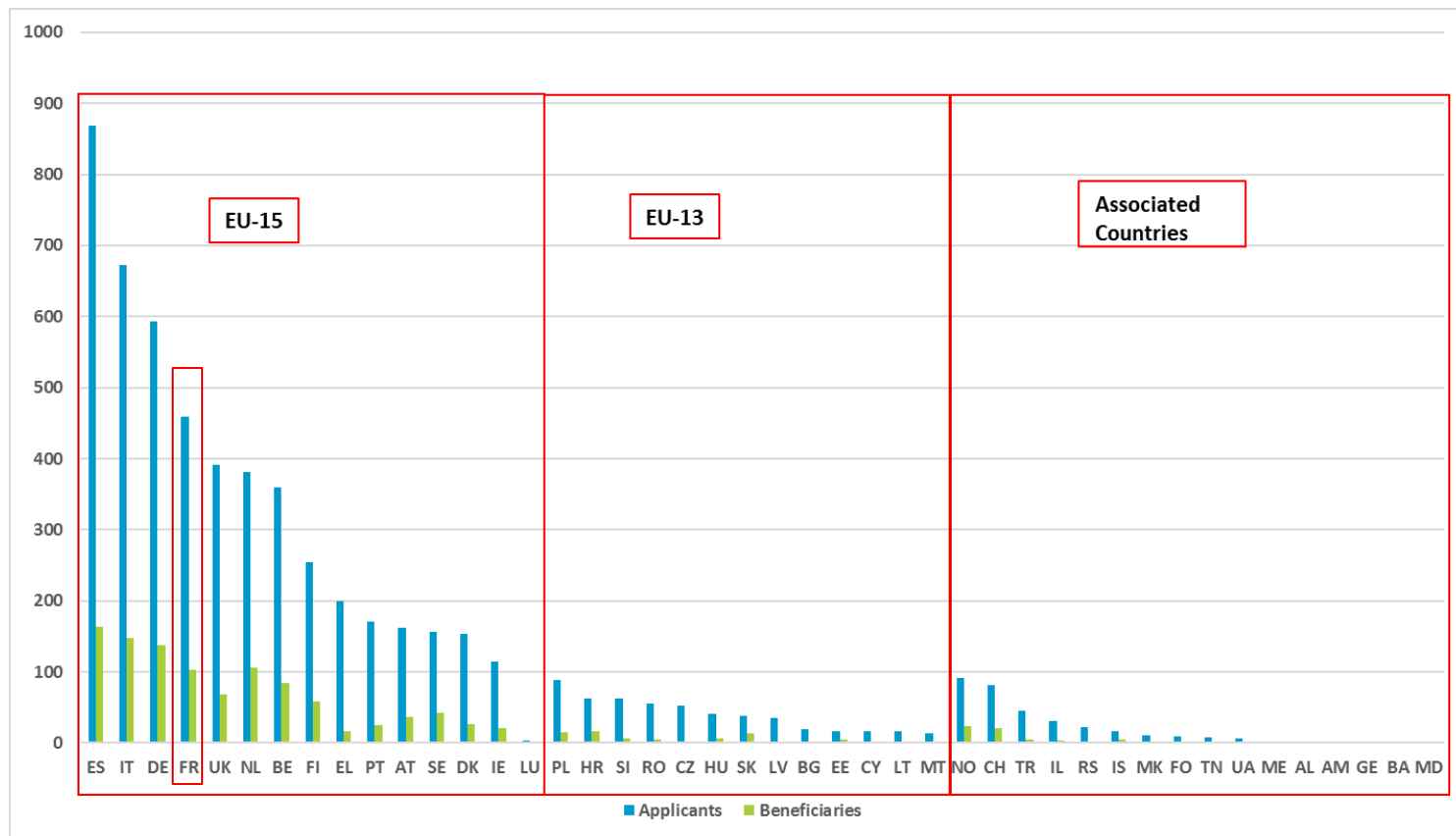




Beneficiaries vs applicants

Calls 2014-2018

SUCCESS RATE RANKING			
EU-15		EU-13	
ES	19%	PL	17%
IT	22%	HR	26%
DE	23%	SI	11%
FR	22%	RO	9%
UK	18%	CZ	4%
NL	28%	HU	17%
BE	23%	SK	34%
FI	23%	LV	6%
EL	9%	BG	11%
PT	15%	EE	29%
AT	23%	CY	12%
SE	27%	LT	6%
DK	18%	MT	0%
IE	18%		
LU	0%		





Output: a balanced project portfolio

Calls 2014 + 2015 + 2016 + 2017 + 2018

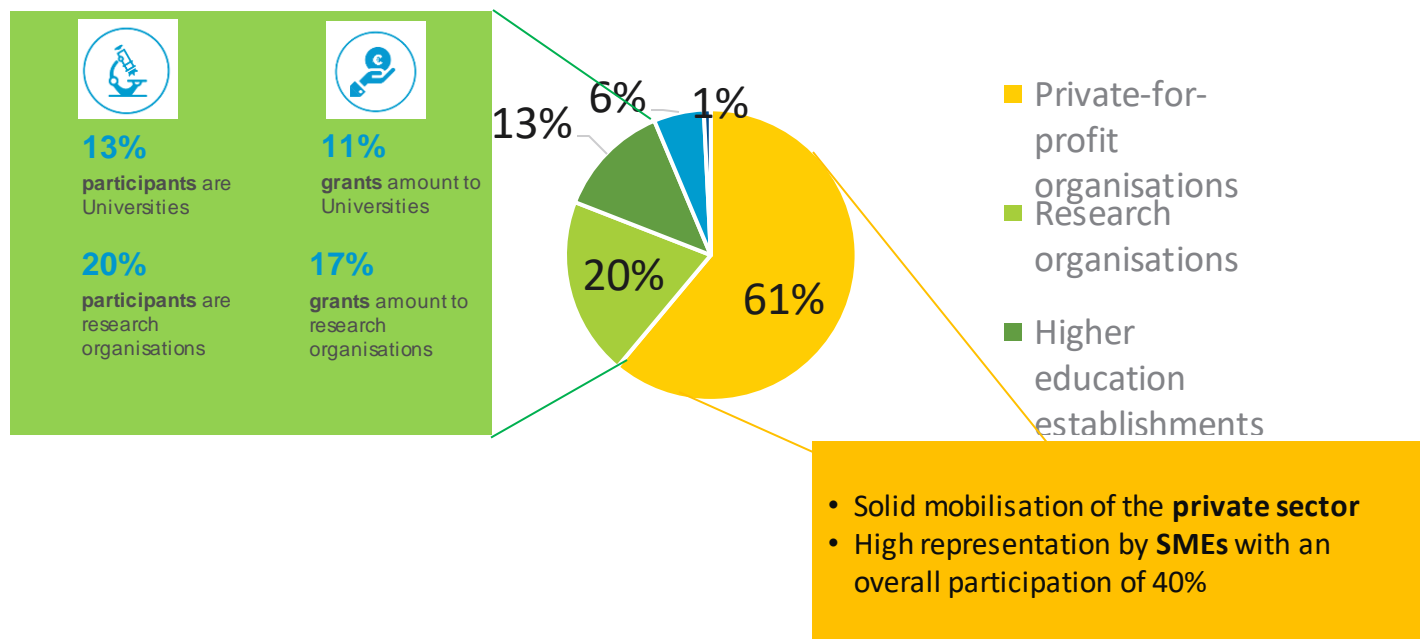
Origin of feedstock	RIA	DEMO	Flagship
Agri-based incl. sidestreams			
Forest based			
Bio-waste and CO ₂			
Aquatic Biomass			
SO4	Policy, regulations and standardization	Consumer awareness of the benefits of the bio-based products	Knowledge gathering and networking
CSA			

→ Detailed information on BBIJU Website/project

Output

Beneficiaries from calls 2014 – 2018

Type of participants





Project outcome monitoring KPI 1/8 from SIRA

New cross sector interconnections

Projects expect **+140** new cross sector interconnections
against a target of **36 by 2020**

		Type of feedstock			
		Agriculture	Forestry	Aquatic	Municipal & industrial organic waste including gaseous side streams (CO2)
End users	Packaging	11	12	2	7
	Medical & healthcare	4	5	4	3
	Personal care & cosmetics	8	4	3	1
	Home care	2	0	0	0
	Pharmaceutical	0	0	2	2
	Food and feed ingredients	12	7	6	5
	Textile	4	4	1	3
	Automotive	5	8	0	2
	Construction	6	8	0	1
	Chemicals for agriculture	7	5	0	5
	Equipment producers & designers	4	6	2	5
	Adhesives	4	7	1	4
	Coatings	2	7	0	2
	Electronics	0	5	0	1
	Biofuels & Bioenergy	6	6	0	3
	Bioplastics	8	8	1	5
	Other sectors	4	5	1	3

→ Detailed information in AAR2018



Project outcome monitoring KPI 2/8 from SIRA

New bio-based value chains

Projects expect **+100 new bio-based value chains**
against a target of 10 by 2020

New value chain means either the **feedstock**, the **processing & technologies** or the **final product** is new in relation to existing value chains

Main aspects of novelty	
70% new market/product	50% new technology
50% new feedstock	40% new business model

→ Detailed information in AAR2018



Project outcome monitoring KPI 2/8 from SIRA

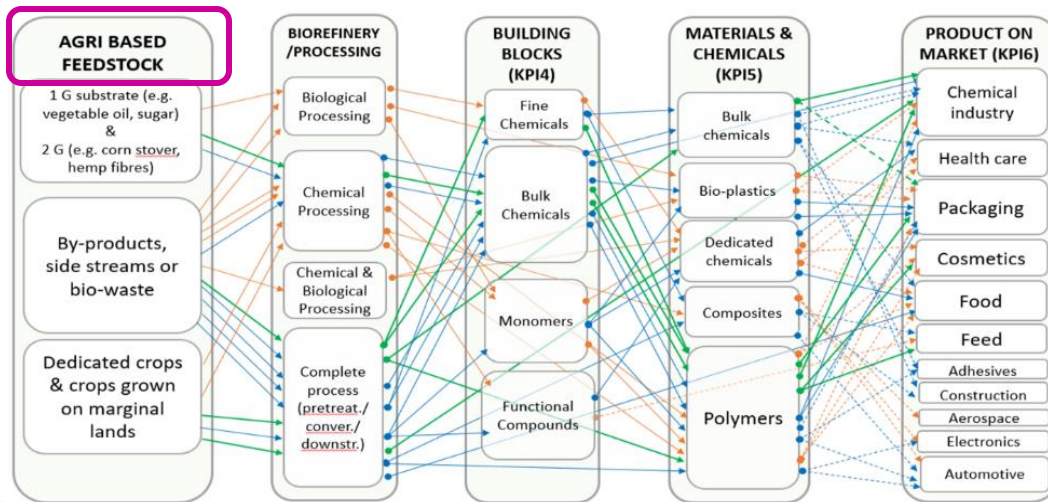
New bio-based value chains

+100 new bio-based value chains
 against a target of 10 by 2020 ?

SIRA 2014 defined a linear value chain in which:



The reality of the sector



— Established pathway
 - - - - - Setting basis to establish pathway
 — RIA — Demo — Flag

→ Detailed information in AAR2018



Outcome monitoring – KPI 4/8from SIRA

New bio-based building blocks

Projects expect **+60 new bio-based building blocks**
against a target of 5 by 2020

Innovation intensity of new building blocks

40% drop-in

30% better
performance
vs fossil-based

30%
breakthrough

Aspects of novelty in the new bio based building blocks

80%
CO2 emissions
reduction

30%
Improved
biodegradability

30%
Improved health &
safety aspects

→ Detailed information in AAR2018



Outcome monitoring – KPI 5/8 from SIRA

New bio-based materials

Projects expect **+140 new bio-based materials**
against a target of 50 by 2020

Innovation intensity of new bio-based materials

30%
drop-in

60% improved
functionality

Aspects of novelty in the new bio-based materials

+ 70% CO₂
emissions
reduction

+ 40%
Improved
biodegradability

+ 35%
Improved health &
safety aspects

→ Detailed information in AAR2018



Socio-economic and environmental impact monitoring

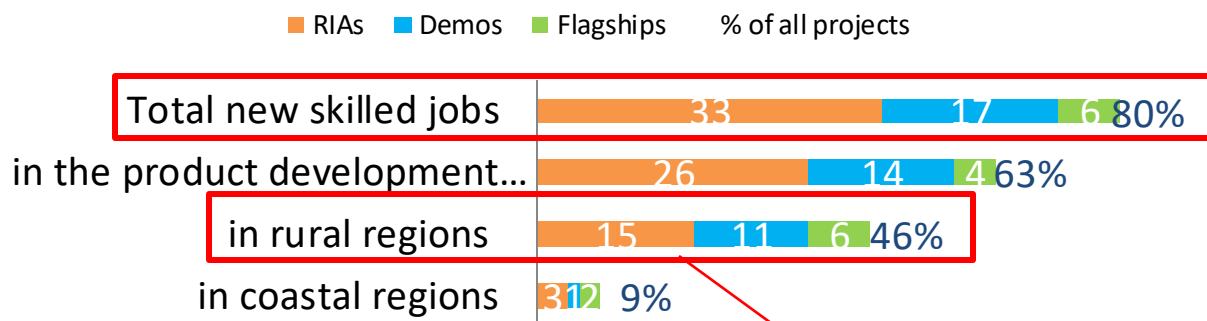
Yearly survey of BBI JU projects:

- Investment and job creation
- Science and knowledge
- Environmental impact
- Primary producers and rural deployment
- Education and citizen
- Market and industry
- Regional and local impact
- Safety and health
- contribution to the UN SDGs (First survey 2018)

Project impact on Jobs & Investment

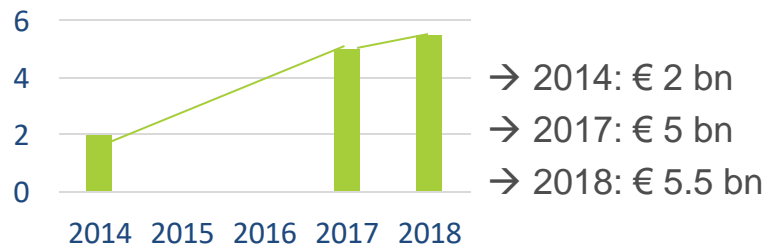


Number of projects reporting creation of jobs

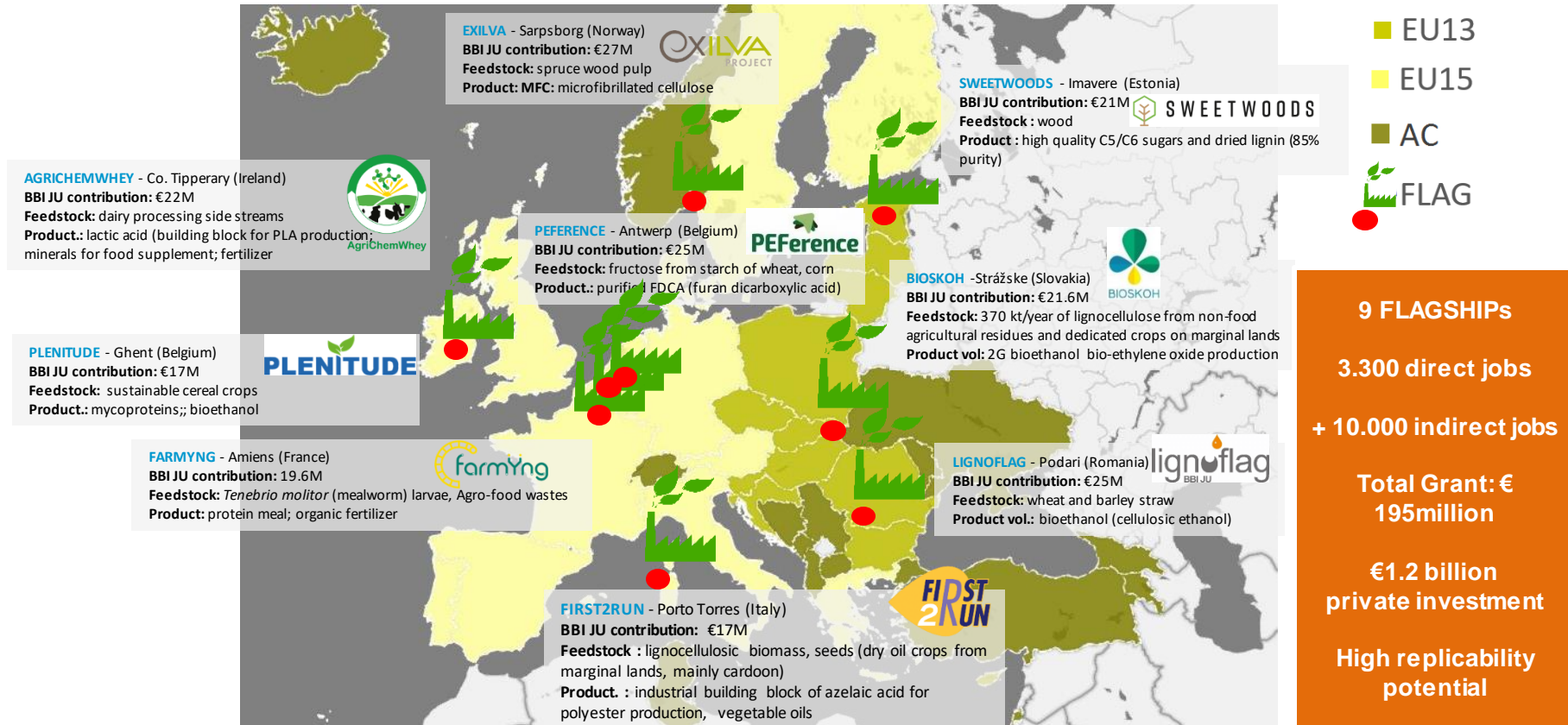


<https://www.bbi-europe.eu/news/new-study-out-participation-agricultural-sector-bbi-ju>

BIC members investment pipeline survey:



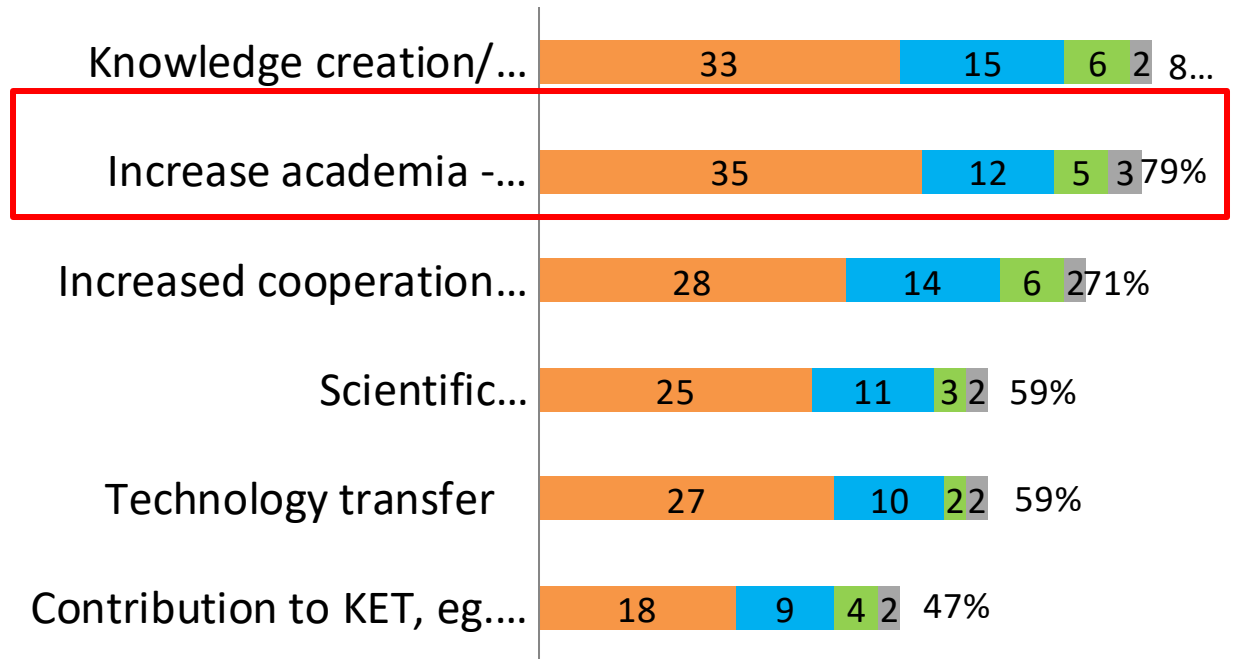
BBI JU – 9 Flagships from calls 2014-18



Project impact on science and knowledge

Project impact on science and knowledge

RIAs Demos Flagships CSAs % of all projects





BBI JU key achievements

- BBI JU is achieving its objectives with two main effects*:
 1. Structuring effect: new types of collaboration
 2. Mobilizing effect: geographic and sectorial
- Increasing mobilisation in BBI JU calls with new sector
- KPIs on socio-economic and environmental impact well on track
- Optimal Value Chains coverage
- High % of SME participation and key role
- Growing BBI JU awareness (also outside EU)
- The industry invests massively 2014: € 2 bn → 2018: € 5.5 bn
- Europe back on the map

(*) More information:
BBI JU Interim Evaluation report
BBI JU Annual Activity report



“We are not there yet”

- **Investments in biorefineries remain huge and risky**
 - ✓ Issues accessing private capital
 - ✓ Remaining funding gaps in Demonstration and Flagship (not bancable)
- **Structuration still ongoing: market and demand risks**
- **Some areas not yet covered enough**
 - ✓ Farmers participation
 - ✓ Full feedstock potential
 - ✓ Geographic coverage and « Regional dimension »
 - ✓ ...
- **Brand owners and retailers participation is improving**
- **Sector request a « coherent, supportive and stable regulatory framework »**
- **Better tell the story of BioEconomy & Bio-Based products: Consumer awareness, education**
- **Go beyond “fossil to biobased” story:**
 - climate mitigation, water quality, human and animal health, biodiversity ...

→ Horizon Europe – Proposed partnership CBE

Ce succès c'est grâce à VOUS

Comment contribuer?

Comment participer?

Et,...





Legal & and financial aspects



BBI JU calls follow **H2020 rules for participation**, but:

- **No BBI JU funding for large industries in RIA & CSA !!!**

All information in:

- **BBI JU Annual Work Plan 2020 (AWP)**
- **BBI JU Guide for Applicants (GfA)**
- **Frequently Asked Questions (FAQ)**

<https://www.bbi-europe.eu/participate/call-proposals-2020>

Budget distribution Call 2020

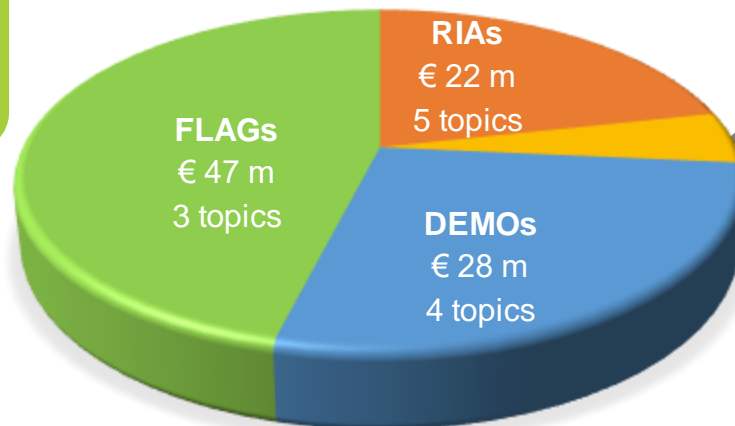
Each Flagship topic
has its own budget
line!

F1: € 15 m

F2: € 16 m

F3: € 16 m

2020 AWP recently
amended with one
new topic F1



CSAs, € 5 m
4 topics. Maximum
one project/topic

Total indicative BBI JU budget € 102 million for 16 topics

**In addition substantial resources from industry expected
Estimated value of the in-kind contributions is minimum € 49 million**



SIRA Strategic Orientations (2017)

SO 1

Foster Supply of sustainable biomass feedstock to feed both existing and new value chains

- Agri-based feedstock
- Forest-based feedstock
- Aquatic feedstock
- Bio-waste and CO₂

SO 2

Optimise efficient processing for integrated biorefineries through R&D&I

- Pre-treatment
- Conversion of pre-treated feedstocks to bio-based chemicals and materials
- Downstream processing
- System modelling

SO 3

Develop innovative bio-based products for identified market applications

- Drop-in bio-based products
- Bio-based products that outperform fossil-based counterparts
- New breakthrough
- Chemicals
- Proteins and active ingredients

SO 4

Create and accelerate the market uptake of bio-based products and applications





- Policy & regulations, standardization
- Consumer awareness of the benefits of bio-based products
- Knowledge gathering and networking



Call 2020: strategic orientations vs. topics

info@bbi.europa.eu

TOPICS

	FEEDSTOCK	Supply chain hurdles of residual waste streams; biogenic gaseous carbon; lignin; aquatic sources to food ingredients	→ D1-2, F1-F2-F3
	PROCESS	Enabling technologies; integral fractionation; recycle composites; extract bioactive compounds; upscale bio-based platform molecule production	→ R1-4, D3
	PRODUCTS	Coatings; packaging solutions	→ R5, D4
	MARKET UPTAKE	Access to finance; insight on emerging technologies; create / interlink bio-based education centres; underexploited circular <i>bioeconomy</i>	→ S1-4



How to measure outcomes and impact

- KPI 1 New cross-sector interconnections
- KPI 2 New bio-based value chains
- KPI 3* BBI JU Cooperation projects
- KPI 4 New bio-based building blocks
- KPI 5 New bio-based materials
- KPI 6 New bio-based consumer products
- KPI 7* BBI JU flagships projects
- KPI 8 'TRL' gain
- Socio-economic and environmental impact

- All topics address KPI 3 and socio-economic and environmental impact
- KPIs specific to
 - RIAs: KPI 8
 - IAs: KPI 6
 - FLAGs: KPI 7
- KPIs 1, 2, 4 and 5 are present in all type of actions

KPIs assessed during the evaluation!

*Note * KPI3 & KPI7 will be measured at program level; the numbers will refer to successful projects. Source: [SIRA](#)*



Rules for participation



Who can apply?

- Any **'legal entity'** (natural or legal person created & registered under national law) e.g. any company, big or small, research organisations, universities, non-governmental organisations, etc. from all over the world:
- Also international organisations or participants from non-EU/H2020 Associated Countries can participate

Consortium composition?

- **CSA:** can be carried out by a single 'legal entity'
- **RIA and IA:** at least 3 'legal entities' established in at least 3 different Member States and/or Associated Countries (AC). The entities must be independent from each other



Eligibility for funding

Legal entities from all over the world can participate H2020 & BBI calls

- **Automatically eligible for funding:**
 - EU and Horizon 2020 Associated Countries
 - Countries listed in [Annex A of the Horizon 2020 Work Programmes](#)
- **NOT automatically eligible for funding:**
 - Industrialised countries and emerging economies: participants are not eligible BUT some countries have forms of co-funding mechanisms
 - EXCEPTIONS if: bilateral agreement; country is identified in AWP or call

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



Consortium own contribution



Leverage of private investments is crucial!

The consortium own contribution in BBI JU projects consists of:

- **In-kind contributions**

The costs incurred by one partner implementing the project minus the funding provided by BBI JU

- **Financial contributions**

Financial transfers from one or more to one or more partners of a BBI JU project to carry out part of the action

- **Additional investments**

Investments (e.g. infrastructure, facilities, durable equipment, etc.) that contribute to achieving the objectives of the projects and the BBI initiative



Call 2020 Indicative Timetable



For more information (topics, timing FAQs), visit [BBI JU website](http://BBIJUwebsite)



Submission of Proposal

Check the [H2020 Online Manual](#)

- an overview of all steps you need to know for the electronic management of proposals or grants;
- easy navigation by process steps;
- a brief description on how to complete your tasks.



Do not wait until the last minute to submit your proposal!

The screenshot displays the 'RESEARCH & INNOVATION Participant Portal' interface. At the top, there is a navigation bar with links for 'Sitemap', 'About this site', 'Contact', 'Legal Notice', 'Search', and 'English'. Below this, the 'European Commission' logo and 'RESEARCH & INNOVATION Participant Portal' are prominently displayed. The main content area includes a 'MY AREA' sidebar with links to 'My Organisation(s)', 'My Proposal(s)', 'My Project(s)', 'My Notification(s)', and 'My Expert Area'. The central part of the page features a 'Funding Opportunities' section with a search bar and a list of programs: 'Horizon 2020 - EU research funding from 2014', 'Seventh Framework Programme (FP7)', 'Competitiveness and Innovation Framework Programme (CIP)', and 'other research and innovation programmes'. A link to the 'H2020 ONLINE MANUAL' is highlighted in the top right of this section. Below the funding opportunities, there are sections for 'Horizon 2020' and 'COSME' (Programme for the Competitiveness of Enterprises and SMEs).



ADMISSIBILITY CRITERIA

- A proposal is **submitted** via the official online submission system **before the call deadline** and it is **readable, accessible** and **printable**
- The proposal is **complete** – accompanied by the **relevant administrative forms**, proposal description and any **supporting documents specified in the call**.
- The proposal includes a **draft plan for the exploitation and dissemination** of the result
- **Page limit** (RIA/IA: 70 pages –CSA: 50 pages)

ELIGIBILITY CRITERIA

- Contents are in line with the topic description in the call
- [Standard eligibility criteria](#) (eg. RIA and IA at least three legal entities, established in a different Member State or Associated Country)
- Any other eligibility conditions set out in the call or topic page



Scores

0 Proposal does not meet the criterion at all or cannot be assessed due to missing or incomplete information

1 Poor – serious weaknesses

2 Fair – goes some way to meeting criterion, but with significant weaknesses

3 Good – but with a number of shortcomings

4 Very good – but with a small number of shortcomings

5 Excellent – meets criterion in every relevant respect. Any shortcomings are minor

Three evaluation criteria Four thresholds

- Excellence score = min. 3/5
- Implementation score = min. 3/5
- Impact score = min. 4/5
- The sum of the three individual scores = min. 11/15

For Innovation Actions, to determine the ranking, the score for the criterion 'impact' will be given a weighting of 1.5

Competition within each budget line

- Call 2020: 6 budget lines (1 CSA, 1 RIA, 1 DEMO, 3 FLAGS)
- It can be competing with other proposals submitted under different topics in the same budget line => high-quality proposals are essential!



- **Online grant preparation:** The process is supported through the Participant Portal.
- **Follow your proposal:** The grant agreement and its annexes must not differ from the proposal. No negotiation in H2020.
- **Timeframe:** The Grant Agreement must be signed at the latest 8 months after the call deadline

SME self-assessment (check beforehand - In RIA and CSAs: no confirmed SME = no funding)

[SME self-assessment](#)

Financial Viability of the Coordinator (select your COO wisely) - [Financial Viability Self-Check](#)

IPR issues and **Consortium Agreement**



Admissibility - Eligibility check

Evaluation of proposals

Grant Preparation

Grant signature



Congratulations !
Class of 2020



Christophe Luguel - IAR



How to write a good preposal ?

3 main evaluation criteria





Central role of expert-evaluators

- **Excellence:** is the concept sound and the methodology credible, is the idea innovative and beyond the state of the art? Are the objectives of the proposal clear? Are the objectives pertinent
- **Impact:** Does the proposal address all 'expected impacts'; impact on new market opportunities, companies, environment, climate change,...) exploitation, dissemination, communication and IPR management; maximize the impact with IKOP
- **Implementation:** Quality and effectiveness of the work plan (WPs, Deliverables, Milestones, Risks), including extent to which the resources assigned; Complementarity of the participants; valid role and adequate resources in the project to fulfil that role.
- **SMART** goals must be **S**pecific, **M**easurable, **A**chievable, **R**elevant, and **T**ime Bound.



- Every word counts
- Think like an evaluator
- Write for an evaluator



From main to subcriteria

- Different ‘types’ of evaluation subcriteria
 - ‘Standard’ Horizon 2020 subcriteria
 - BBI JU-specific subcriteria
- Differences between ‘types of action’
 - Coordination & Support Actions (CSAs)
 - Research & Innovation Actions (RIAs)
 - Innovation Actions (IAs)
 - DEMOs
 - Flagships



Excellence: WHAT? Subcriteria



H2020 subcriteria (*all actions*)

- Clarity and pertinence of the objectives
 - Are the objectives clear, structured, well-quantified (if applicable),...
 - ...and are they linked (*pertinent*) to the topic text?
- Soundness of the concept and credibility of the proposed methodology
 - ‘*Concept*’: the ‘big idea’ behind the proposal
 - ‘*Proposed methodology*’:
 - How to go from ‘big idea’ to reaching the stated objectives
 - Have all elements described in the topic text been taken into account (e.g. LCA)?





H2020 subcriteria (*RIAs and IAs*)

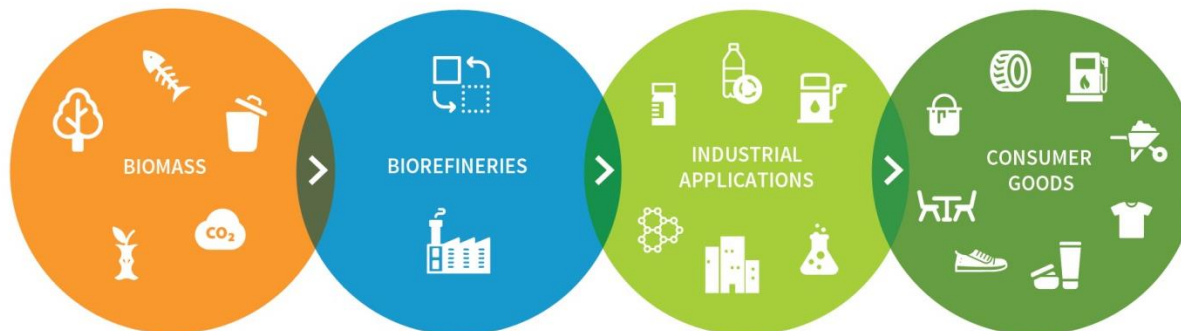
- Extent that proposed work is beyond the state of the art, and demonstrates innovation potential.
 - What is the state of the art (SOTA)? What's the benchmark?
 - ...and how does your proposal go beyond the SOTA?



Clearly describe the (starting and end) TRLs

BBI JU-specific subcriterion (*IAs*)

- Coverage of the whole value chain
 - Why? IAs are close to market => this subcriterion checks that your idea take into account biomass, processing and end products and markets;
 - Why not in RIAs? Because RIAs can (topic-specific) focus on a specific technological problem in a part of the value chain





Impact: SO WHAT? Subcriteria



Importance of impact



- 'European Science paradox'
 - 1995, Green paper on Innovation
 - EU funding: “great science, but limited impact”
 - Since 1995, impact has become more and more important in EU funding (evaluations)
- BBI JU focuses on impact
 - Impact score: max. 5/5 (like ‘Excellence’ and ‘Implementation’)...
 - ...but threshold is 4/5 (\Leftrightarrow 3/5 in ‘Excellence’ and ‘Implementation’)...
 - ...and weighting factor of 1,5 in IAs



H2020 subcriteria (*all actions*)

- Outputs of the project vs. the expected impacts mentioned in the work plan
 - Are all ‘expected impacts’ listed in the topic text dealt with...
 - ...in a qualitative AND quantitative manner?



Describe explicitly how your proposal contributes to each listed ‘expected impact’, e.g. via a table.



H2020 subcriteria (*all actions*)

- Exploitation, dissemination and communication of project results (including IPR and - where relevant - research data management)
 - Dissemination & exploitation: more than an eligibility criterion; this is also evaluated by experts



- Also provide quantitative data (how many conferences, publications, target audiences,...) => be **specific**, avoid 'generic' diss./comm./expl. plans
- Include relevant (also public) deliverables
- Explicitly describe IPR (Intellectual Property Rights) management



BBI JU subcriteria (*RIAs and IAs*)

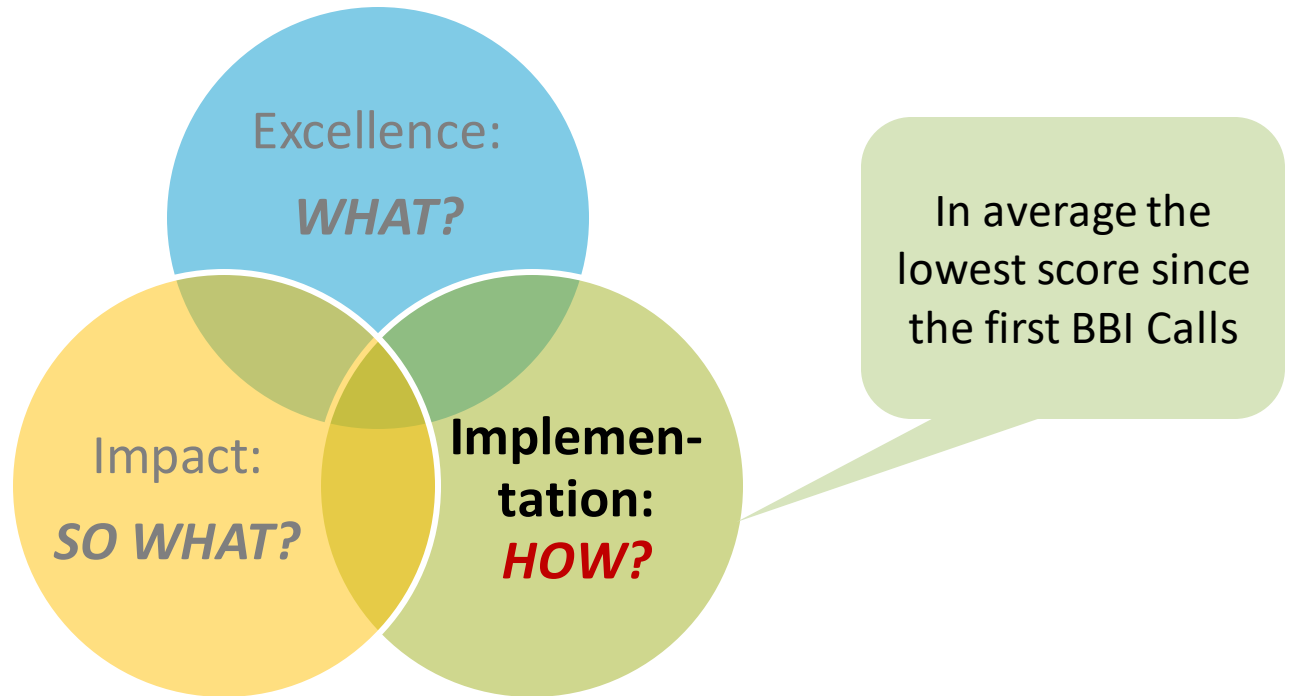
- Extent to which the proposed consortium own contribution, including additional investments, will help maximising the impact of the action
 - Clearly describe if and how much “own contribution” (“in kind”, ‘in cash’ and/or ‘additional investments’) is included in the proposal...
 - ...AND explain how this will maximise the impact of the action



Don't just list the amounts, also explain them and to what extent they contribute to the impact



Implementation: HOW? Subcriteria





H2020 subcriteria (*all actions*)

- Quality and effectiveness of the work plan (incl. deliverables), including resource allocation



- Check **coherence** of budget allocation and timing throughout the proposal (e.g. list of deliverables and Gantt chart: same timing?)
- FAQ: difference between methodology (What: 'Excellence') and work plan (How: 'Implementation')?



H2020 subcriteria (*all actions*)

- Allocation of tasks, ensuring that all participants have a valid role and adequate resources



Convince expert-evaluators that you don't have 'token' consortium members, e.g. via resource allocation (money talks...)



H2020 subcriteria (*all actions*)

- Management structures and procedures, including risk and innovation management.
 - Consortium of 5 or 20 members: different management (structures) needed
 - ‘Innovative’ management techniques are not necessary; it needs to work!



- explicitly mention / describe risk and innovation management...
- ...and include ‘real’ (not token) risks and mitigation measures



BBI JU-specific subcriteria (*IAs*)

- Soundness of the business case and business plan
 - Why? IAs are close to market => business case and business plan are needed
 - How? See Guide for Applicants and proposal template (bullet points describing business case & plan requirements)
 - FAQ: how much info is needed?
 - “(Further) details can be provided in part B – sections 4-5” (= not included in 70-page limit)
 - (Only) for Flagships: additional info via hearings



BBI JU-specific subcriteria (*IAs*)

- Readiness of the technology

clearly indicate the start and end TRLs

- *“In particular, for **flagships** applicants must demonstrate that by the time of the submission of their application they have been operating relative demonstration scale plants at a significant production capacity (justification shall be provided in the proposal).”*

A yellow sticky note with a red pushpin at the top left corner. The text 'Helpful Tips' is written in a blue, handwritten-style font.

Helpful
Tips



How to write a good proposal?

- Ensure that expert-evaluators **quickly** find the **right** information to assess the evaluation subcriteria.



Helpful
Tips

- Be aware of the evaluation subcriteria of ‘your’ type of action (CSA, RIA, IA)...
- ...and provide (explicit) answers to these subcriteria in your proposal...
- ...using the proposal structure / template described in the Guide For Applicants (GfA)



Where to find more info?

- **BBI JU website**
 - <https://www.bbi-europe.eu/participate/calls-proposals-2020>
 - Links to Guide for Applicants, FAQ, National Contact Points (NCPs), European IPR helpdesk, BIC, EEN (Enterprise Europe Network),...
 - Overview (incl. URLs): see Q0.1 of Call 2020 'FAQ for Applicants'
- **Participant Portal**, Horizon 2020 [online manual](#) (find a call, register organisations, submit proposal)
- Helpdesk@bbi.europa.eu



Join us

- Register on our partnering platform:
<https://bbi-ju.lifepartnering.com/>
 - Access a network
 - Receive all relevant information about our calls
 - Access to reports and information
 - E-Newsletter



- Information on call 2020
- Brokerage event and networking
- 2019: > 600 participants > 1000 F2F meetings
- 2020 → 1,500 registrations

Follow us

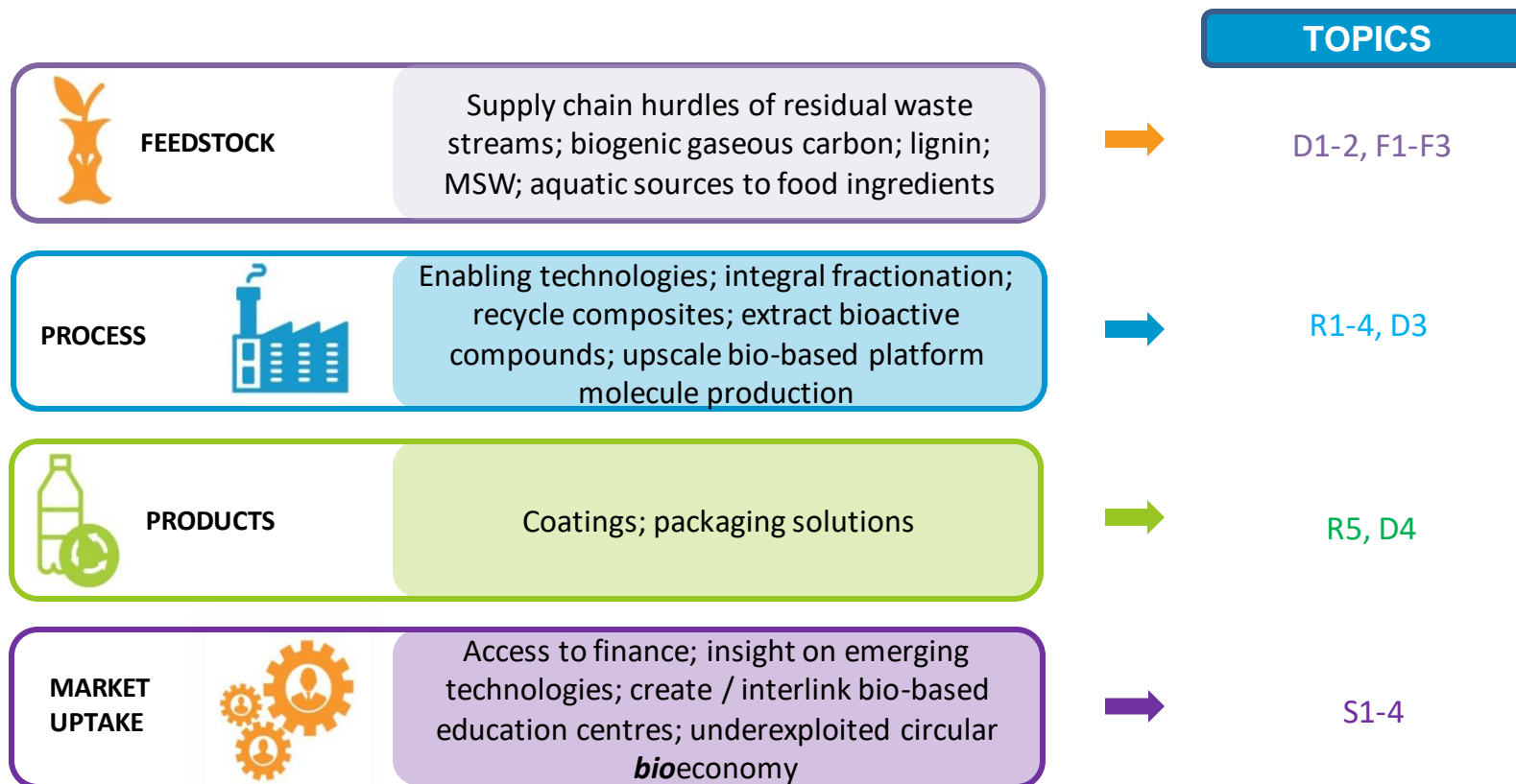


Bio-based Industries Joint Undertaking



@BBI2020

Call 2020: strategic orientations vs. topics





Call 2020 - RIAs

Feedstock	/
Process	<ul style="list-style-type: none">▪ R1 – Use enabling technologies to improve feedstock availability and sustainability for the bio-based industry▪ R2 – Develop integral fractionation of lignocellulose to produce components for high-value applications▪ R3 – develop bio-based solutions to recycle composites▪ R4 – extract bioactive compounds from new, underexploited and/or recalcitrant residual bio-based streams for high-value applications
Products	<ul style="list-style-type: none">▪ R5 – improve the sustainability of coatings
Market uptake	/



Call 2020 - DEMOs

Feedstock	<ul style="list-style-type: none">▪ D1 – resolve supply-chain hurdles for turning residual waste streams into functional molecules for food and/or nonfood market applications▪ D2 – use biogenic gaseous carbon to increase feedstock availability for the industry
Process	<ul style="list-style-type: none">▪ D3 – upscale the production of bio-based platform molecules for larger market applications
Products	<ul style="list-style-type: none">▪ D4 – demonstrate superior bio-based packaging solutions with minimal environmental damage
Market uptake	/



Call 2020 - Flagships

Feedstock	<ul style="list-style-type: none">▪ F1 – Valorise the organic fraction of municipal solid waste through an integrated biorefinery at commercial level▪ F2 – Turn lignin into materials and chemicals for highend applications▪ F3 – Produce food ingredients with high nutritional value from aquatic sources
Process	/
Products	/
Market uptake	/

Note: a dedicated budget line per Flagship topic

- F1: € 15 million
- F2: € 16 million
- F3: € 16 million



Call 2020 - CSAs

Feedstock	/
Process	/
Products	/
Market uptake	<ul style="list-style-type: none">▪ S1 – Help start-ups and spin-offs to gain access to finance▪ S2 – Provide insight on emerging technologies for biobased value chains▪ S3 – Create and interlink bio-based education centres to meet industry's needs of skills and competences▪ S4 – Expand circular economy to include the underexploited circular bioeconomy


Note:


- Although all CSA topics fall under the same budget line (total: € 5 million)...
- ...max. 1 CSA project can be funded per topic




Thank you!


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