



Bio-based Industries Joint Undertaking Objectives, Strategies and 2015 Call for Proposals



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Part I

BBI JU: Objectives, Strategic Research & Innovation Agenda (SIRA) and How to Participate

Content

- BBI JU Initiative
- BBI JU
- BIC & SIRA
- Types of Action
- Call 2014
- How to participate



BBI Initiative

Post petroleum /
green society

environmental & socioeconomic benefits



sustainability

Bio-Based Industries

Biomass* – Technologies – Bio-Products



competitiveness

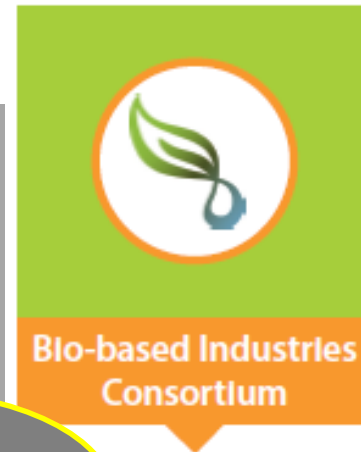
technological & economic development

increasing investment for Research & Innovation
for sustainable and competitive bio-based industries
and value chains in Europe



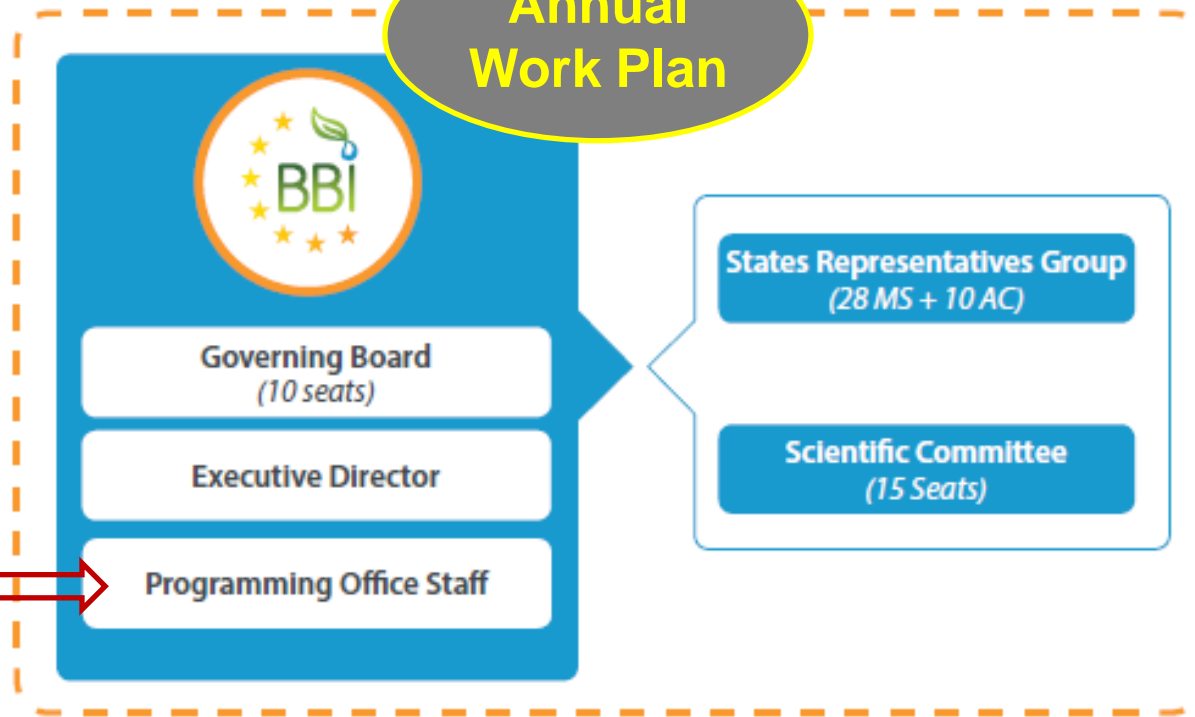
BBi JU - Governance

Public partner
Represented by
EC



Private partner
Represented by BIC
> 70% of investment
in BBi JU

**Annual
Work Plan**

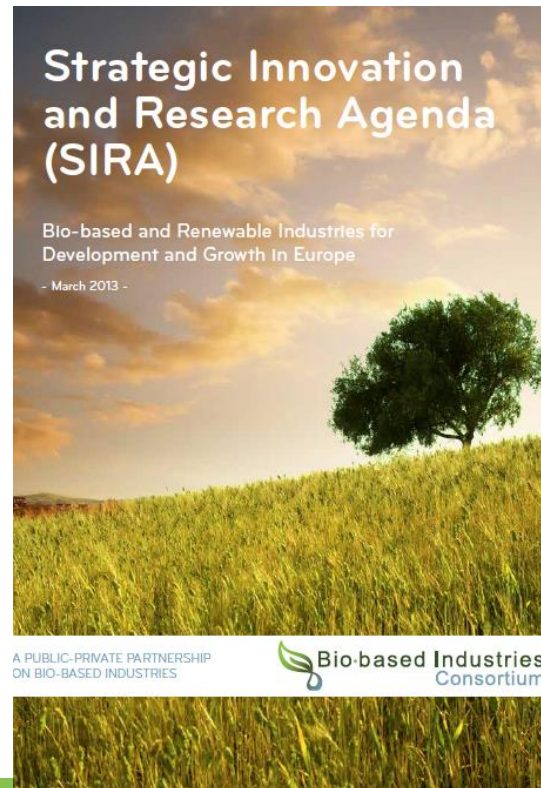




Bio-based Industries Consortium (BIC)

- a non-profit organisation created to represent the industry group that supports the BBI Initiative
- More than 200 BIC members: large industries, SMEs, regional clusters, European trade associations, and European Technology Platforms (**open for new members**)
- BIC developed the Strategic Innovation and Research Agenda (SIRA) → guiding document for BBI Initiative
- BIC drafts BBI Annual Work Plans (AWP) and BBI Call for Proposals
 - together with BIC members
(better access to information!)
 - in consultations with Commission, SC, SRG

www.biconsortium.eu

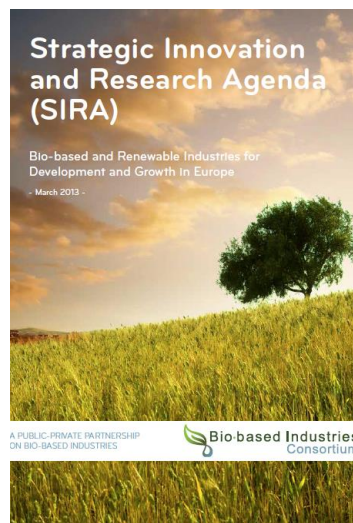




Value Chains

- **Value Chain 1: From lignocellulosic feedstock to advanced biofuels, bio-based chemicals & biomaterials** realising the feedstock and technology base for the next generation of fuels, chemicals and materials
- **Value Chain 2: Next generation forest-based value chains** utilisation of the full potential of forestry biomass by improved mobilisation and realisation of new added value products and markets
- **Value Chain 3: Next generation agro-based value chains** realising the highest sustainability and added value by improved agricultural production, and new added value products and markets
- **Value Chain 4: New value chains from (organic) waste** from waste problems to economic opportunities by realising sustainable technologies to convert waste into valuable products

Source: Strategic Innovation and Research Agenda ([SIRA](#)) prepared by the Bio-based Industries Consortium





BBI JU – Programme Office

Execution of all tasks arising from Council Regulation establishing BBI JU (*), eg

- Management of the calls (annual work plan)
(call publication, proposals evaluation & selection)
- Grant Agreement Preparation and Management
(GA signature, monitoring of contractual obligation)
- Promoting of BBI JU activities
(communication and dissemination)

-> Implementation of BBI Initiative

(*) COUNCIL REGULATION (EU) [No 560/2014](#) of 6 May 2014 establishing the Bio-based Industries Joint Undertaking

www.bbi-europe.eu



Types of Actions 1/2

Implementation through various Types of Actions:

RIA & IA: different **Technology Readiness Levels (TRL)**

- **Research and Innovation Actions (RIA)**

TRL 4

- **Innovation Actions (IA)**

 - Demonstration actions

 - Flagship actions



TRL 8

- **Coordination and Support Actions (CSA)**

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

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



Types of Actions 2/2

Specificities of the BBI JU Programme

All Actions: industry driven + stronger industry commitment

RIA: Filling specific gaps in the value chain

Outcome: technology validated in **lab / pilot level**, TRL 4 - 5

IA: Covering a whole value chain

Outcome: establishing a **new product, process or service**

→ **Demonstration Actions**

Outcome: establishment of a **demo – scale** production facility in Europe (= a new installation, modification/use of existing demo facilities), TRL 6 - 7

→ **Flagship Actions**

Deployment of a technology, which has been already demonstrated

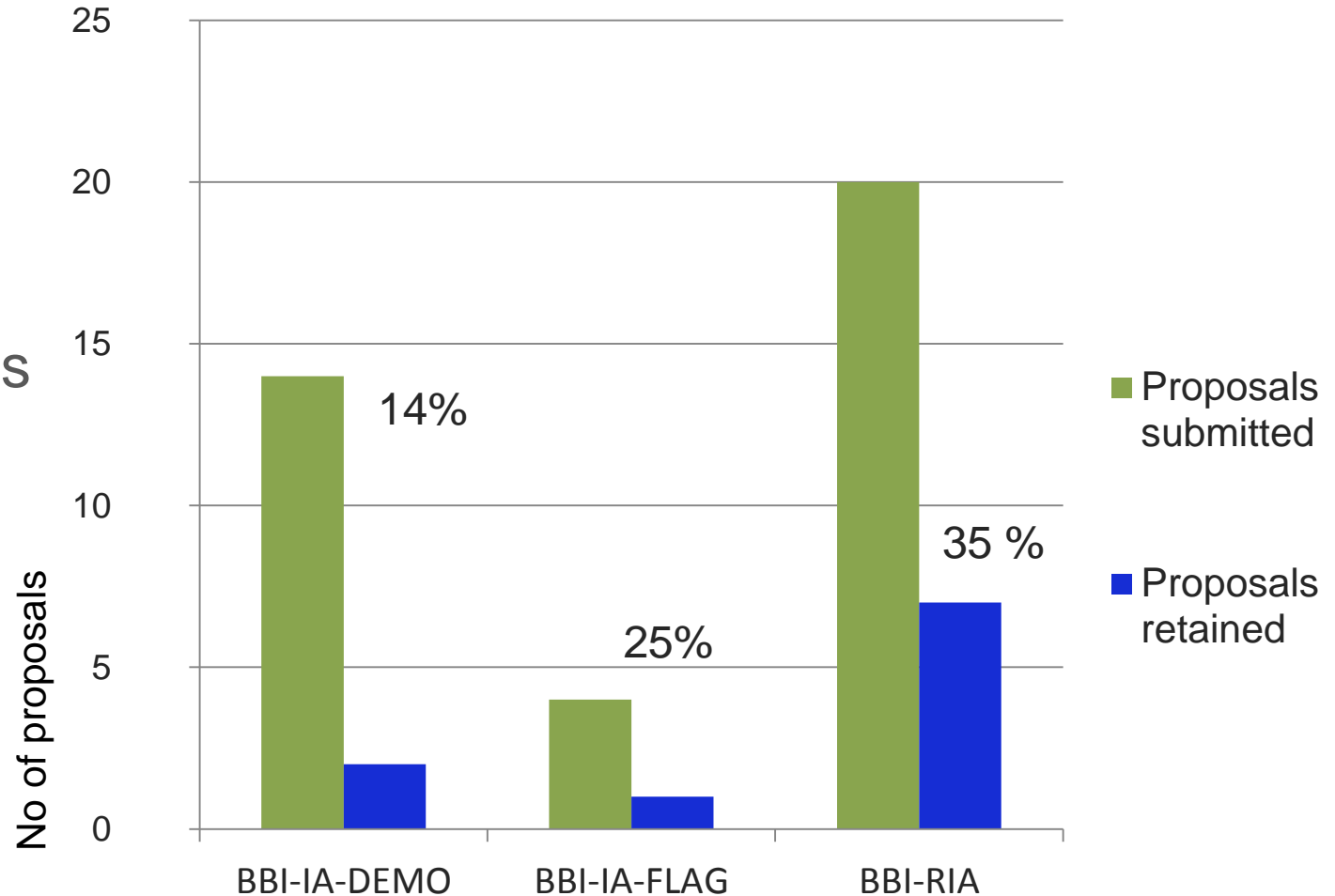
Outcome: **a first-of-a-kind** application, **large scale** production facility in Europe, TRL 8, **No equivalent Initiative in H2020**



BBI JU Call 2014

Success rates

- 38 eligible proposals
- 10 proposals retained for funding





BBI JU Call 2014

Lesson learned

- Average consortium size:
RIA → 11 Partners (between 6 – 22 PA)
DEMO → 6 Partners (between 4 – 7 PA)
- Good SMEs participation (20% of requested budget)
- BIC memberships helps (higher success rate)
- Differences in participation between countries
- PT: 1 PA in project PROVIDES*

(*) PROVIDES: PROCesses for Value added fibres by Innovative Deep Eutectic Solvents; Coo NL, 22 Partners (BBI.VC2.R2)



How to participate?

Become an active BIC member

- better access to information active contribution to topic drafting
- See details on the BIC website: www.biconsortium.eu

Participate in the BBI JU programme

- as an expert for evaluation (see [Participant Portal](#))
- as a beneficiary in a project, eg. coordinator, partner (see next ppt)



Part II

BBI JU: Funding Opportunities in the 2015 call & key factors for a successful application

Content

- BBI JU 2015 Calls & Priorities
- Topics BBI JU 2015 (RIA-DEMO-CSA)
- Legal & Financial Aspects
- Evaluation Criteria
- Planning
- Key Success Factors



2015 Call(s)

**Flagship
Call 2015.1**



**RIA-DEMO-CSA
Call 2015.2**



Call publication date	19-05-2015	25-08-2015
Deadline for proposals submission	15-09-2015	03-12-2015
Estimated BBI JU Funding	€ 100 million	€ 106 million
No. of topics	3	19

In addition: substantial resources from the industry expected



Priorities for 2015 Calls

Overarching goals:

to bridge the gap between technology development & commercialisation

VC1: lignocellulose VC2: forest VC3: agro VC4: waste VCx.....

Cross - sectorial integration along and **across value chains**

Ensuring sufficient and sustainable biomass supply

Development of biorefinery technologies

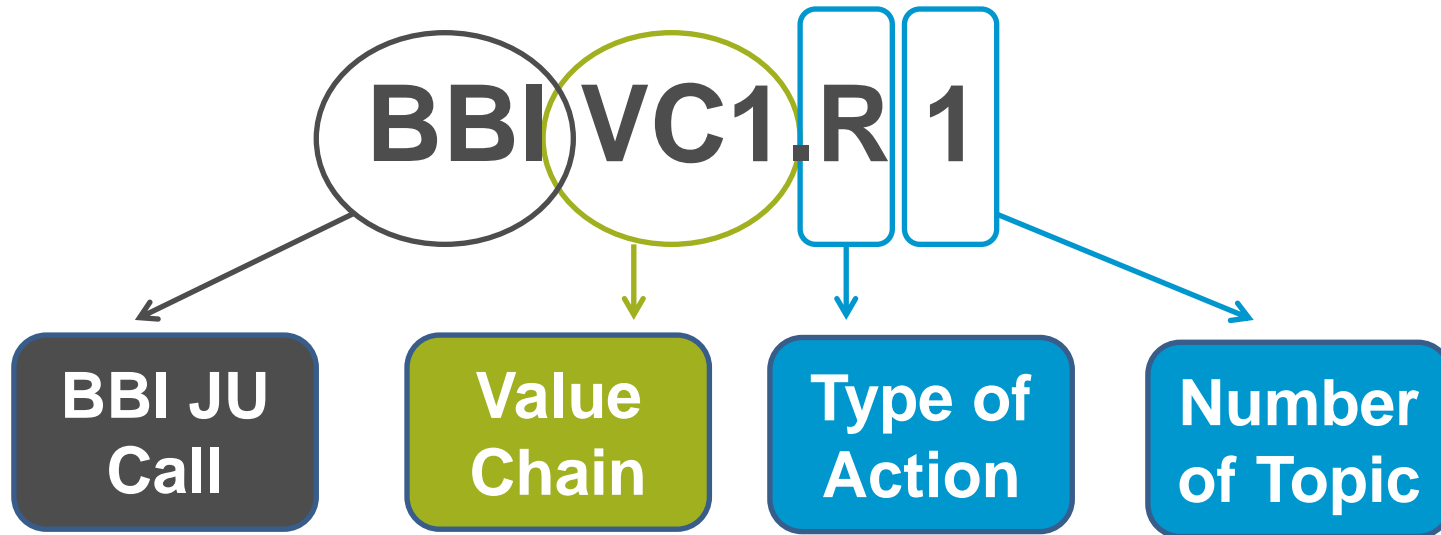
Secured market demand and customer awareness

IMPACT



Topics in BBI JU Calls

How to interpret the acronyms?



R → RIA

F → Flagship

D → Demo

S → CSA

The same principle applies for:



Structure of topics in BBI JU Calls

Example BBI R10

Acronym - Title

BBI R10 - Innovative efficient biorefinery technologies

Specific challenge → what is the problem?

“The establishment of competitive integrated biorefineries that process biomass in a cascading approach, and (...) operate year-round...”

Scope → the relevant area to look for a solution

- Development of innovative technologies (fractionation, separation, extraction..), concepts & value chains which address that challenge
- industrial leadership, a life cycle oriented approach,...
- The range of a total eligible budget for a proposal EUR 2-5 million...

Expected impact → final project contributions ↓ problem

- A 20 % increase of conversion efficiency
- A 20 % improvement in resource efficiency
- Achieving technological validation of one / more product...



RIA-DEMO-CSA Call 1/3

Research and Innovation Actions	Budget
BBI.VC1.R1 - Conversion of lignin rich-reach streams from biorefineries	€28 million
BBI.VC1.R2 - Pre-treatment of lignocellulose with simultaneous removal of contaminants and separation of lignin and cellulosic fractions	
BBI.VC1.R3 – Bio-based functional molecules for coating and surface treatment	
BBI.VC1.R4 – Separation and extraction technologies for added value compounds from wood and forest-based residues	
BBI.VC2.R5 - Practices increasing effectiveness of forest management	
BBI.VC2.R6 - Sustainable cellulose based materials	
BBI.VC2.R7 - Tailoring tree species to produce wood designed for industrial...	
BBI.VC3.R8 - Increasing productivity of industrial multi-purpose agricultural crops	
BBI.VC3.R9 - Valorisation of aquatic biomass	
BBI.R10 - Innovative efficient biorefinery technologies	€12 m

Note: It is considered that proposals with a **total eligible budget in the range of €2-5 million** would allow the specific challenge to be addressed appropriately.



RIA-DEMO-CSA Call 2/3

Topics : Demonstration Actions	Budget
BBI.VC1.D1 - Lignocellulosic feedstock into building blocks and high added value products	€64 million
BBI.VC2.D2 - Innovative cellulose-based composite packaging solutions	
BBI.VC3.D3 - Production of bio-based elastomers from Europe-grown feedstock	
BBI.VC3.D4 - High purity bio-based intermediates and end products from vegetable oils and fats	
BBI.VC3.D5 - Valorisation of agricultural residues and side streams from the agro-food industry	
BBI.VC4.D6 - Organic acids from Municipal Solid Waste	
BBI.D7 - Overcoming low product yields from fermentation processes	

Note: It is considered that DEMO proposals with a **total eligible budget of up to €15 million** would allow the specific challenge to be addressed appropriately.



RIA-DEMO-CSA Call 3/3

Topics : Coordination and Support Actions	Budget
BBI.S2 - Standards and regulations	€2 million
BBI.S3 - Communication and awareness	

Note: It is considered that CSA proposals with a **total eligible budget of up to €1 million** would allow the specific challenge to be addressed appropriately.

Call Publication: [Participant Portal](#)

Participant Portal → Funding Opportunities

→ BBI H2020-BBI-PPP-2015-1-2

→ **Competition between topics within an Action Type**



3 important factors for successful proposal

- Find your strength and your topic in the call:
Remember: this is an industry driven approach:
industry has to bring the idea, define the gap(s)
& provide the financial contribution
→ proposals built on this base
- Understand and correctly address all
legal & financial aspects in the proposal
- Study the **evaluation criteria** to understand how
your proposal will be assessed by the evaluators



Legal & financial aspects

- BBI JU follows the general H2020 Rules for Participation
Derogation from the Rules for Participation:
 - > No BBI JU funding for large industries in RIA or CSA
 - > consequences for your budget
- BBI JU Annual Work Plan provides the legal information for submitting a proposal to a call
e.g. [BBI JU AWP 2015 RIA-DEMO-CSA](#)
- Specific details for each call can be found in the BBI JU Guide for Applicants (GfA)
e.g. [GfA for Call 2015 RIA-DEMO-CSA](#)



Legal aspects

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.

Consortium size?

- RIA and IA: at least 3 'legal entities' established in at least 3 different Member States and/or Associated Countries. The entities must be independent of each other
- CSA: can be carried by a single 'legal entity'
- The size & scope can vary depending on the topic (see topics description in the work plan)



Financial Regime: RIA & CSA

Funding Rates 100% (n/a for large industry)*

Participant	(A) Direct personnel costs/€	(B) Other direct cost/€	(F) Indirect Costs/€ =0.25 (A+B)	(H) Total estimated [eligible] costs/€	(I) Reimb rate (%)	(J) Max grant (=H*I)	(K) Requested grant/€
RTO	400	300	175	875	100	875	875
Large Industry	500	900	350	1750	NA	0	0
SME	350	50	100	500	100	500	500
University	300	50	87.5	437.5	100	437.5	437.5
Total				3562.5		1812.5	1812.5

€ 2 -5 million

* as per Derogation from H2020 RoP

Note: This is an example for RIA as provided in the GfA for Call 2015. Costs in k€.

Industry own contribution to the project is €1.750.000 (total costs not reimbursed by the BBI JU), which represents about 50% of the total budget in this case (€ 3562.5).



Financial Regime: Innovation Actions

Funding Rates 70% (100% for non profit org)

Participant	(A) Direct personnel costs/€	(B) Other direct cost/€	(F) Indirect Costs/€ =0.25 (A+B)	(H) Total estimated [eligible] costs/€	(I) Reimb rate (%)	(J) Max grant (=H*I)	(K) Requested grant/€
RTO	200	240	110	550	100	550	550
1. Large Industry	2500	6000	2125	10625	70	7437.5	4872.5
2. Large Industry	1000	1000	500	2500	70	1750	1750
SME	210	650	215	1075	70	752.5	752.5
Total			€ 15 million ->	14750		10490	7925

Note: This is an example for IA (DEMO) as provided in the GfA for Call 2015. Costs in k€. SME & large industry partners can receive 70% and the RTO can receive 100% of the total eligible costs.

Participants can request a lower funding (eg 1. Large Industry) → increasing the own industry contribution in the project (in this case to 46%) → in line with BBI JU policy.



Evaluation Criteria: Horizon 2020

For Research and Innovation Actions (RIA) & Innovation Actions (DEMO)

Excellence

- Clarity and pertinence of the objectives;
- Credibility of the proposed approach;
- Soundness of the concept,...
- Extent that proposed work is ambitious, has innovation potential, and is beyond the state of the art.....

Impact *

- The expected impacts listed in the relevant topic;
- Enhancing innovation capacity.... ;
- Strengthening the competitiveness and growth of companies
- Any other environmental and socially important impacts
- Effectiveness of the proposed measures to exploit and disseminate the project results (including IPR management)...

Implementation

- Coherence and effectiveness of the work plan...
- Complementarity of the participants within the consortium;
- Appropriateness of the management structures

(*) For IA to determine the ranking, the score for the criterion 'impact' will be given a weight of 1.5.



Evaluation Criteria: BBI JU

Research & Innovation Actions (RIA)

H2020 rules apply + Specificities of the BBI JU Programme

Excellence

Impact

+ Extent to which consortium contribution, will help maximising the impact of the action

Implementation



Evaluation Criteria: BBI JU

Innovation Actions (DEMO)

H2020 rules apply + Specificities of the BBI JU Programme

Excellence

+ Coverage of the value chain

Impact *

+ Extent to which consortium contribution, **including additional investment**, will help maximising the impact of the action
weighting (1.5)

Implementation

+ Soundness of the business case /business plan
+ Readiness of the technology

(*) For IA to determine the ranking, the score for the criterion 'impact' will be given a weight of 1.5.



RIA-DEMO-CSA Call 2015

Indicative timetable:

Submission of proposals:

→ 03 December 2015

Evaluation of Proposals

→ January 2016

Information on the evaluation outcome:

max 5 months after the proposal submission deadline

→ 03 May 2016

Signature of grant agreements:

max 8 months after the proposal submission deadline

→ 03 August 2016



Key factors for successful proposal 1/2

- Benefit from BIC membership: better access to information (before topic publication); contribution to topic drafting
- Find your strength and your topic in the call
- This is an industry driven approach:
Remember: industry has to bring the idea, define the gap(s) & contribute, proposals built on this base
- Study and address all evaluation criteria:
Remember: It is about Impact
though Excellence & Implementation count



Key factors for successful proposal 2/2

- Before starting to draft your proposal: read all relevant documents -> see Participant Portal, Regarding the topic text: each word counts
- Chose experienced coordinator and build balanced consortium, draft Consortium Agreement
- Professional preparation counts: Early involvement of financial and legal departments in proposal

Thank you



Twitter: @BBi2020