



BBI JU Calls 2015

Strategic priorities, content and timing



Agata PIENIADZ

BBI JU Project Manager

Info Day, 26 June 2015



Content

- **Introduction**
Value Chains, Priorities, Types of Actions
- **Flagship Call (2015.1)**
- **RIA-DEMO-CSA Call (2015.2)**
- **Concluding remarks**



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



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



Types of Actions 1/2

Priorities are implemented 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**

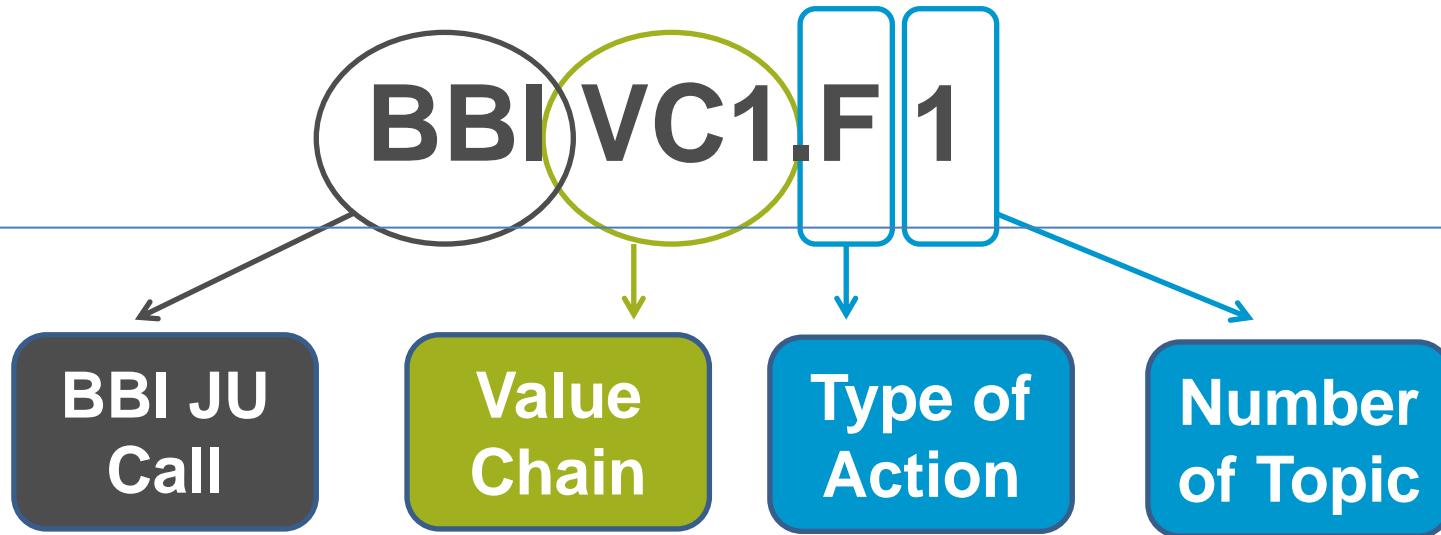
Deployment of a technology, which has been already demonstrated

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



Topics in BBI JU Calls

How to interpret the acronyms?



F → **Flagship**

R → **RIA**

D → **Demo**

S → **CSA**

The same principle applies for:

2015 Call(s)

Flagship Call 2015.1



- Published: 19-05-2015
- Deadline: 15-09-2015
- Estimated BBI JU Funding €100 million
- No. of topics: 3

RIA-DEMO-CSA Call 2015.2



- To be published **tentative**
(End of summer 2015)





Flagship Call 1/4

Value Chain	Topic	Scope
VC1: From lignocellulosic feedstock...	BBI VC1.F1 - From lignocellulosic feedstock to advanced bio-based chemicals, materials or ethanol	<ul style="list-style-type: none"> i) Bioethanol ii) Diols/ diacids as building blocks
VC2: ... forest-based value chains	BBI VC2.F2 - Valorisation of cellulose into new added value products	<ul style="list-style-type: none"> i) Microfibrillar cellulose based additives ii) Lightweight structural composites
VC4: ... value chains from (organic) waste	BBI VC4.F3 - Innovative processes for sugar recovery and conversion from Municipal Solid Waste (MSW)	sourcing & management of MSW to its conversion (eg. into bioethanol, bioplastics)

It is considered that proposals with a **total eligible budget of up to €35 million** would allow the specific challenge to be addressed appropriately.



Flagship Call 2/4

Topics' Common Features:

Scope

- Leading role of industrial partner(s)
- Industrial symbiosis, integration of actors along the VC
- Assessment of market demand for targeted products
- Inclusion of a Life Cycle Assessment (env + socio-econ)

Impact

- **General, socio-economic impact:** Creating job opportunities, development of entrepreneurial activities
- **Topic specific quantitative impacts:** economic (eg cost efficiency), technological (eg production efficiency) and environmental (eg CO2 reduction)



Flagship Call 3/4

Evaluation Criteria

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



Flagship Call 4/4

Indicative timetable:

Submission of proposals:

→ 15 Sept 2015

Information on the evaluation outcome:

max 5 months after the proposal submission deadline

→ 15 Feb 2016

Signature of grant agreements:

max 8 months after the proposal submission deadline

→ 15 May 2016



RIA-DEMO-CSA
Call 2015.2 *



*** Provisional figures**

- To be published (End of summer 2015)
- Deadline for proposals' submission: Dec 2015
- Estimated BBI JU Funding: €106 million
- No. of topics: 21



RIA-DEMO-CSA Call 1/3

Provisional list of topics/budget

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: For R1-R9: 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

Provisional list of topics/budget

Topics : Demonstration Actions	Budget
BBI.VC1.D1 - Lignocellulosic feedstock into building blocks and high added value products	€60 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

Provisional & under discussion

Topics : Coordination and Support Actions	Budget
BBI.S1 - Clustering and networking (2016?)	€6 million
BBI.S2 - Standards and regulations (2015.2)	
BBI.S3 - Communication and awareness (2015.2)	
BBI.S4 - Bioeconomy related open access research infrastructure and assessing its capabilities for industry driven development projects (2016?)	

Note: It is considered that CSA proposals with a **total eligible budget of up to €3 million** would allow the specific challenge to be addressed appropriately.

Topic info published on the [BBI JU website](#):

- RIA & DEMO, CSA: topic title & indicative budget
- RIA & DEMO: full topic text

Exact content of the call and timing

Call publication on the [Participant Portal \(PP\)](#)

PP → Funding Opportunities → BBI H2020-BBI-PPP-2015-1-2

Note: Publication scheduled for end of summer 2015.

www.bbi-europe.eu



Concluding remarks 1/2

Indicative BBI JU budget: €206 million

€100 million		€106 million		Provisional
Flagship Call - 2015.1		RIA-DEMO-CSA Call - 2015.2		
Action	Budget m €	Action	Budget m €	
Flagship (3)	100	RIA (10)	40	
		Demo (7)	60	IA → 78%
		CSA (4)	6	

Note: in brackets: number of topics per action.

Call(s) 2015: BBI JU Funding 4x higher than in 2014

Focus on funding Innovation Actions (IA)

RIAs BBI JU Funding >2x higher than in 2014

More Opportunities

In addition: substantial resources from the industry expected



Concluding remarks 2/2

- Competition between topics within an Action Type
- It is about Impact though Excellence & Implementation count
- Industry driven approach: industry has to bring the idea, define the gap(s) & contribute, proposals built on this base
- Before you start drafting your proposal: read all relevant documents -> see Participant Portal eg for [Flagship Call](#)
- See BBI JU website for the upcoming [RIA-DEMO-CSA Call](#)
- Ask Questions

Thank you



Twitter: @BBI2020