



SESSION 2

BBI JU
Info Day 2016

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**BBI JU's research priorities
and novelties:
2016 Call for Proposals**



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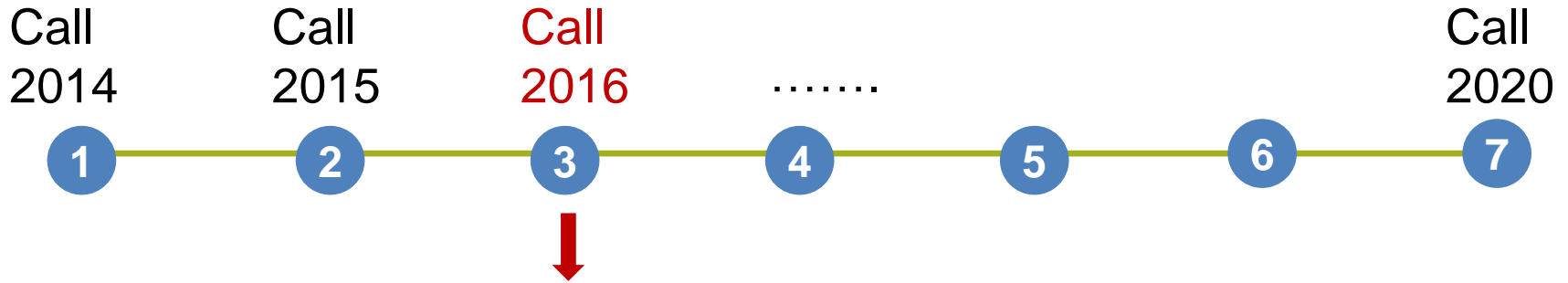


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BBI JU Calls Evolution



Main drivers for Call 2016 design ?

- Changes in the operational environment of BBI (politics, markets, technology, new stakeholders ...)
- Need to accelerate the developments towards meeting the BBI 2020 objectives and impacts
- Input from stakeholders' consultations and lessons learned from previous Calls



Strategic orientation – SIRA

- A guiding document for call(s) design
- Main elements: still valid (e.g. defined VCs) and represent well the interests of the industry
- Some adjustments needed:
 - widening of scope in terms of feedstock, technologies, new industrial sectors & application areas
 - crossing borders of existing VCs, creating new VCs



Impact on the Call 2016?

- new areas covered (aquatic biomass, BB products with new functionalities for diverse market applications)
- Topics: no restriction to a specific VCs mentioned in the SIRA (topic numbering)



Strategic orientation – Call 2016

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



Sufficient and sustainable biomass **feedstock** supply at affordable price, incorporating the feedstock suppliers as partners in the value chains



Development of biorefinery **technologies and processes** to increase the competitive position of the bio-based industries in Europe



Higher **market demand** and customer awareness through the development of innovative products and applications in partnership with actors in the end consumer markets...



Implementation - 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

New in RIA
topics / scope

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



Call 2016

...even more focus on impact

- **BBI JU offers an industry driven programme:**
For a real impact the participation of industry in the proposal is **crucial** (industry shall bring the ideas, define the gap(s) & relevant markets and contribute €)
→ over proposal's quality & expected impact
- **Contribution to BBI Key Performance Indicators (KPI):**
Each proposal shall explain how it is contributing to the KPIs as defined in the current [SIRA](#) (p30f.)
→ expected impact

New in 2016
topics /impact



Objectives & KPIs & Call 2016

BBI JU specific objectives: demonstrate technologies; develop business models, set up flagship biorefinery plants:

- KPI 1** New cross-sector interconnections in bio-based economy clusters **11 topics**
- KPI 2** New bio-based value chains **17 topics**
- KPI 3** Cooperation projects **13 topics**
- KPI 4** New building blocks based on biomass of European origin validated at demonstration scale **1 topic**
- KPI 5** New bio-based materials **12 topics**
- KPI 6** New demonstrated 'consumer' products based on bio-based chemicals and materials **9 topics**
- KPI 7** Flagships resulting from BBI JU funded projects **2 topics**



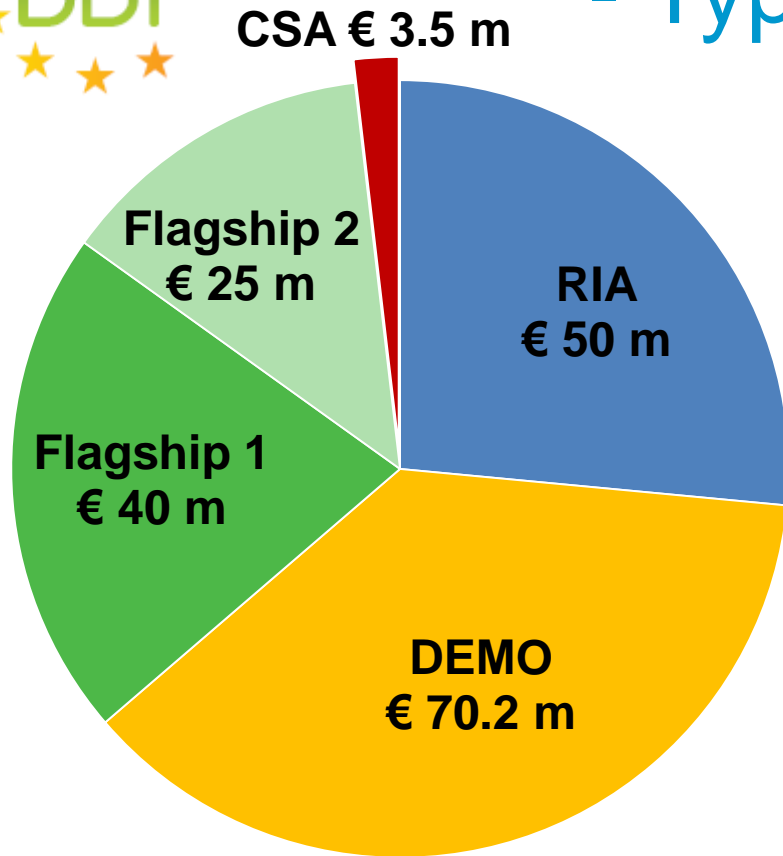
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Budget distribution Call 2016

- Type of Actions -



Indicative total BBI JU budget € 188.65 Million

In addition substantial resources from industry expected: Estimated value of the in kind contributions: Minimum € 110 Million



RIAs in Call 2016

Objective: Filling specific gaps in the value chain by developing (TRL 3) or validating a technology, process or materials/chemicals at lab (TRL 4) or at pilot scale (TRL 5)

- 12 RIA topics with different focus /priorities;
 - Feedstock:** wastewater (R1), MSW (R8), aquatic biomass (R9)
 - Process:** fermentation (R2), control of contamination (R3), separation & purification (R12), ...
 - Products & Markets:** biomaterials for food packaging (R5), biopolymers with advanced functionalities (R7)...
- BBI JU Budget: € 50 million
- Considered total eligible budget: € 2-5 million per proposal



DEMOS in Call 2016

Objective: demonstration of the technical and economic viability of a new or improved technology, process, product or service or value chain in relevant (TRL 6) or operational (TRL 7) environment

- 9 DEMO topics: industrial crop & novel sources of biomass (D2); biorefinery concepts for underexploited areas (D4), BB polymers/plastic materials with new functionalities (D5)...
- Shall address the **whole value chain**, from feedstock sourcing to market applications
- BBI JU Budget € 70.2 million
- Considered total eligible budget: up to € 15 million / proposal



Flagships in Call 2016

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)

2 Flagship topics focusing on high added-value products:

- F1: by-products or waste-streams from the food industry
BBI JU Budget € 40 million (2 projects possible)
Considered total eligible budget: up to € 30 million/ proposal
- F2: bio-based feedstock
BBI JU Budget € 25 million
Considered total eligible budget: up to € 35 million/ proposal



CSAs in Call 2016

Objective: supporting value chains development through various means (4 CSAs):

- S1: A roadmap for the chemical industry to a bioeconomy
- S2: Bioeconomy related open access research infrastructure and assessing its capabilities for industry driven development projects
- S3: Open-innovation Platform strengthening cooperation and joint development of bio-based industries and downstream sectors
- S4: Clustering and networking for new value chains
- BBI JU Budget € 3.5 million



Call 2016

Indicative Timetable

Call launch:

→ Open for proposals: from 19 April 2016

Submission of proposals:

→ **Deadline: 8 September 2016**

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

→ By: 8 Feb 2017

Signature of grant agreements:

max 8 months after the proposal submission deadline

→ By: 8 May 2017

For more information (topics, timing) see BBI JU Annual Work Plan 2016 ([BBI JU AWP](#)).

The [Call 2016 FAQ](#) are published on the BBI JU website.



Conclusions - Novelties

- Very inclusive call (RIA, Demo, Flagship, CSA):
there is something for all actors in the BBI environment
- New opportunities via
 - more focus on **new areas**: e.g. aquatic biomass
 - opening **new cross-cutting opportunities**
(no restriction to a pre-defined VC)
 - developing of **new functionalities** of materials/ products
(enabling differentiation strategy)
- More focus on impact: proposals shall contribute
to clearly defined KPIs



Thank you!