

#BBIInfoDay

# SESSION 2

The BBI JU  
2017 Work  
Programme

# INFO DAY 2017



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#BBIInfoDay

BBI JU's  
research  
priorities  
and  
novelties





# Table of Content

- Novelties in Call 2017  
Strategic orientation & Implementation
- Content of Call 2017  
Budget, topics & timing
- Conclusions



# BBI implementation

## Steps towards a Call for Proposals



### Strategic level: SIRA

Strategic Innovation and Research Agenda  
guiding document developed by BIC



### Operational Level

#### Annual Work Plan

Drafting – Approval – Supporting



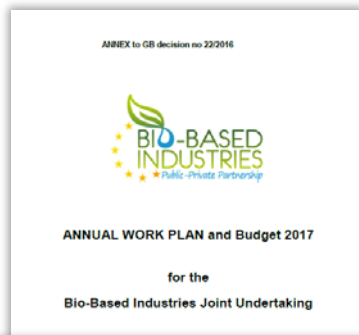
+ Scientific Committee  
+ States Representatives Group



### Call for proposals (RIAs, IAs, CSAs)



Publication &  
Implementation





# Highlights of Call 2017



## As initiated last year AWP 2017

- Accelerates the developments towards meeting the BBI 2020 objectives and impacts (focus on **impact & BBI KPIs**)
- Widens the scope in terms of feedstock, technologies, new industrial sectors & application areas (focus on **BB products with new functionalities**)
- Promotes a ,multi-value-chain' approach, moves away from a strict biomass feedstock 'push' based on the traditional value chains (Topics: **no restriction to a specific VCs** mentioned in the SIRA)
- Keeps **4 strategic orientations**: Feedstock, Process, Products, Market Uptake



# Strategic orientation in Call 2017

## - 4 pilars of value chains -

### Strategy



#### FEEDSTOCK

Fostering a sustainable biomass feedstock supply to feed both existing and new value chains



expand & diversify the biomass feedstock portfolio

#### PROCESS



Optimising efficient processing for integrated biorefineries



improve efficiency & sustainability, develop new processes



#### PRODUCTS

Developing innovative bio-based products for specific market applications



increase applicability, avoid price competition with fossil-based products

#### MARKET UPTAKE



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



respond to the concerns of society about BB products



# Strategic orientation in Call 2017

## - 4 pillars of value chains -

### Topics



#### FEEDSTOCK

Fostering a sustainable biomass feedstock supply to feed both existing and new value chains



R1, D1, D2

#### PROCESS



Optimising efficient processing for integrated biorefineries



R2, R3, F1



#### PRODUCTS

Developing innovative bio-based products for specific market applications



R4, R5, R6, R7,  
D3, D4, D5  
F2

#### MARKET UPTAKE



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



S1, S2



# Implementation of Call 2017 - through 3 Type of Actions -

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

RIAs fill specific gaps  
in a value chain

- **Innovation Actions (IA)**

- Demonstration actions
- Flagship actions

IAs address the whole value  
chain, from feedstock sourcing  
to market applications

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

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





# Technology Readiness Levels (TRL)

... expected at the end of BBI Actions

**TRL: method of estimating technology maturity using a scale from 1 to 9**

TRL 1 – basic principles observed

TRL 2 – technology concept formulated

TRL 3 – experimental proof of concept

TRL 4 – technology validated in lab

TRL 5 – technology validated in relevant environment

TRL 6 – technology demonstrated in relevant environment

TRL 7 – system prototype demonstration in operational environment

TRL 8 – system complete and qualified

TRL 9 – actual system proven in operational environment

*Assessed in the  
evaluation process*

**RIA**

**DEMO**

**FLAGSHIP**



# Importance of Impact

## ...even more focus on impact in call 2017

- Emphasis on sustainability, addressing the environmental, social and economic dimension, is increased
- Supporting actions to better realise the associated expected impacts (CSAs), are included
- More focus on products with new functionalities
- Clear contribution to **BBI Key Performance Indicators (KPI)** expected (each proposal shall explain how it is contributing to the KPIs as defined in the current [SIRA](#), p30f.)
- All 'expected impacts' (qualitative & quantitative) are clearly listed in the topic text



# BBI JU Key Performance Indicators (KPI)

KPIs addressed in the topics (expected impact)

- KPI 1 New cross-sector interconnections → all 16 topics, all actions
- KPI 2 New bio-based value chains → 14 topics (all RIAs + IAs)
- KPI 3\* BBI Cooperation projects → All topics
- KPI 4 New BB chemical building blocks → 2 topics (R1, D3)
- KPI 5 New bio-based materials → 7 topics (RIA, Demo, Flag)
- KPI 6 New BB 'consumer' products → 7 topics (Demo, Flag)
- KPI 7\* BBI flagships projects → 2 topics (Flag)

Assessed in the  
evaluation process

Note \* KPI3 & KPI7 will be measured at programme level; the numbers will refer to successful projects

Source: [SIRA](#) p. 30f



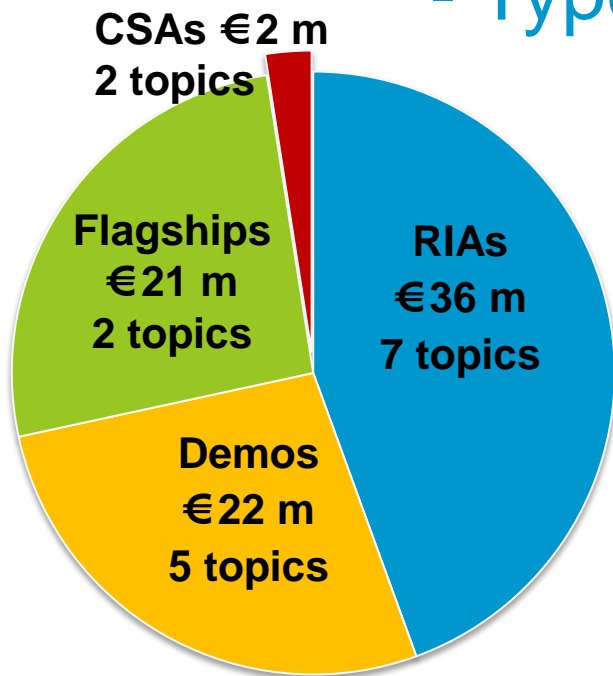
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# Budget distribution Call 2017

## - Type of Actions -



Indicative  
total BBI JU budget  
€81 million  
for 16 topics

In addition substantial resources from industry expected  
Estimated value of the in kind contributions: >40 M €



# 7 RIA topics in Call 2017



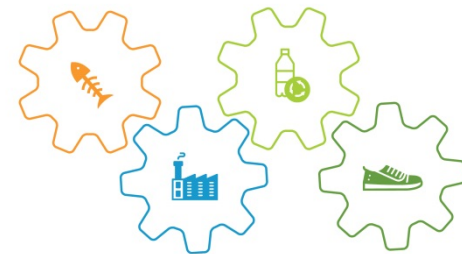
**Objective:** Filling specific gaps in the value chain by validating a technology, process or materials/product at TRLs 4/5

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

<b>Feedstock</b>	Valorisation of <b>gaseous side streams</b> (R1)
<b>Process</b>	<b>Pre-treatment &amp; separation</b> of lignocellulosic feedstock (R2), <b>Extremophiles</b> & extremozymes for processing (R3) <span style="font-size: 2em; vertical-align: middle;">}</span> <b>Conversion</b> of pre-treated feedstock
<b>Products</b>	<b>Proteins</b> & other bioactive ingredients <b>from side streams</b> (R4) Novel BB chem. <b>precursors</b> for <b>mass consumption</b> prod. (R5) <b>Bio-based plastics</b> for a <b>sustainable end-of-life phase</b> (R6) Novel <b>BB chemicals</b> without sig. fossil-based counterparts (R7)
<b>Market uptake</b>	



# 5 Demo topics in Call 2017



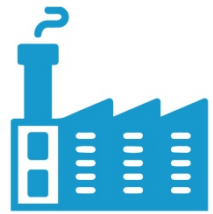
**Objective:** demonstration of the technical and economic viability of a new or improved technology, process, product or service or value chain, achieving TRL 6-7.

**BBI JU Budget** €22 million // Grant: up to €7 million / proposal

<b>Feedstock</b>	Valorisation of <b>liquid and solid side streams</b> (D1) Valorisation of <b>algae</b> into materials/additives (D2)
<b>Process</b>	
<b>Products</b>	Bio-based <b>chemicals</b> without sig. fossil-based counterparts (D3) Bio-based <b>fertilizing products</b> (D4) Bio-based <b>fibres &amp; materials</b> for large-volume applications (D5)
<b>Market uptake</b>	



## 2 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

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





## 2 CSAs in Call 2017



**Objective:** non-technological actions supporting value chains development through various means (no link to TRL)

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

<b>Feedstock</b>	
<b>Process</b>	
<b>Products</b>	
<b>Market uptake</b>	Establish cooperation and partnership with <b>brand owners &amp; consumer</b> representatives to improve market access (S1) Identify <b>opportunities for ICT</b> 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:**

→ **Call closure: 7 September 2017 (17:00 CET)**

### **Information on the outcome of the evaluation process:**

max 5 months after the proposal submission deadline

→ By: 7 Feb 2018 (tentative December 2017)

### **Signature of grant agreements:**

max 8 months after the proposal submission deadline

→ By: 7 May 2018



# Conclusions

## Call 2017 continues focusing on impact

- proposals shall contribute to clearly defined impacts and KPIs

## Call 2017 continues opening of new opportunities via

- introducing of **new areas**: e.g. gaseous side streams
- opening **new cross-cutting opportunities**  
(multi-value-chain' approach /no restriction to a pre-defined VC)
- developing of **new functionalities** of materials/ products  
(enabling differentiation strategy)

## Call 2017 continues to be inclusive for applicants

- there is something for all actors in the BBI environment  
(RIA, Demo, Flagship, CSA)

Thank  
you!

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