



Ministerie van Economische Zaken



Bio-Based Industries Joint Undertaking (BBI-JU) Call 2017

7 juni 2017

Saske Hoving

National Contact Point
Internationale innovatie
samenwerking

8 juni 2017



1) A joint work programme industry-driven



Strategic level: SIRA

Strategic Innovation and Research Agenda
guiding document developed by BIC



Operational Level Annual Work Plan

Drafting – Approval – Supporting



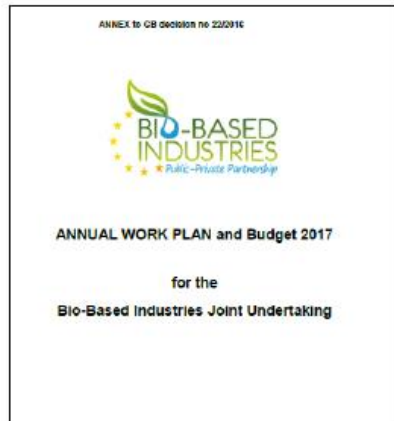
+ Scientific Committee
+ States Representatives Group



Call for proposals (RIAs, IAs, CSAs)



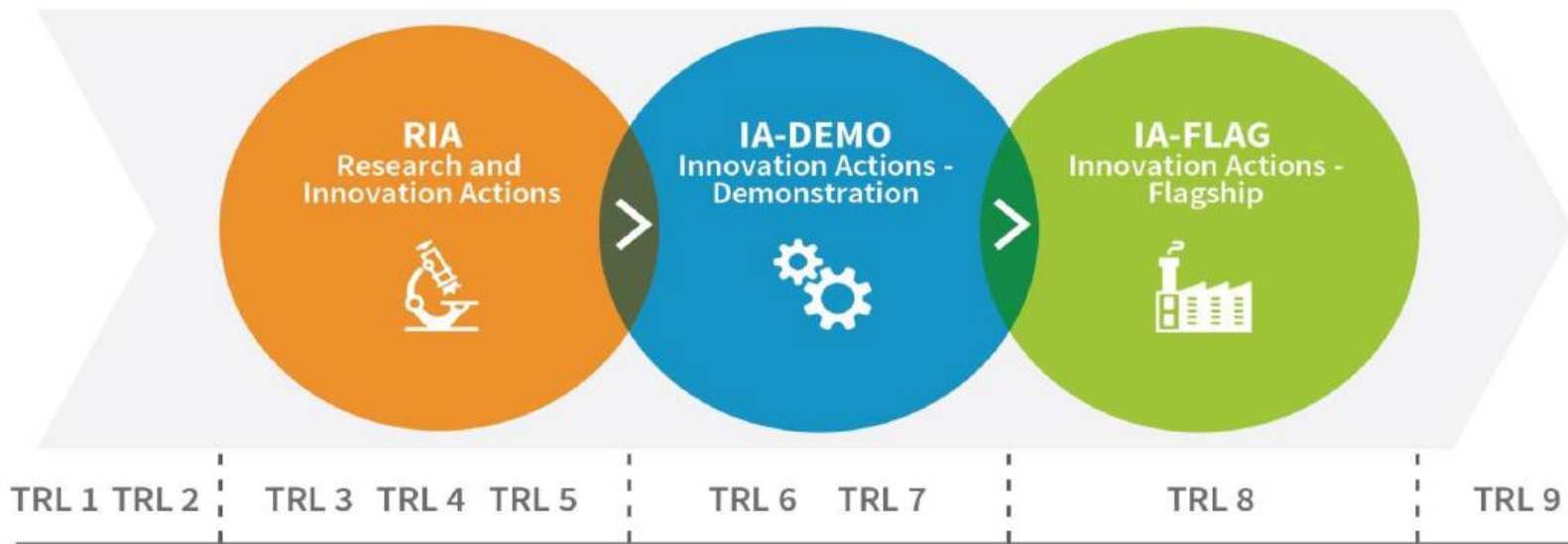
Publication & Implementation





Actions and TRL

- **TRL**: method of estimating technology maturity...
- ...using a scale from **1** (basic principles observed and reported) to **9** (actual system proven)



Development and validation of technology

Demo-scale production facility in Europe

A first-of-a-kind application, large-scale production facility in Europe



CSA

Coordination and Support Actions - no link to TRLs*



The call for proposals



- BBI JU Calls follow Horizon 2020 participation principles:
 - Openness: call are open for everybody
 - Transparency: transparent rules and known in advance
 - Excellence: Quality of the proposals: only the best quality proposals will be funded
- BBI JU calls follow H2020 rules for participation

BUT with one derogation:

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



Participation & maximum funding rates per action

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

- RIA and IA: at least 3 legal (independent) entities from at least 3 different Member States and/or Associated Countries!
- CSA: can be carried out by a single 'legal entity'



Strategic orientations

In the AWP 2017, the topics are grouped into four strategic orientations reflecting the steps along the critical path:



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



Process: Optimising efficient processing for integrated biorefineries



Products: Developing innovative bio-based products for specific market applications



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

BBI JU KPIs

Proposals shall explain how it is contributing to the KPIs as defined in the SIRA:

KPIs included in the topic text as expected impact

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





Strategic orientation: Feedstock

R1: **Valorisation of gaseous side streams** from bio-based operations into chemical building blocks

D1: **Valorisation of liquid and solid side streams** from bio-based operations into high added-value products to create new feedstock for bio-based products

D2: **Integrated multi-valorisation of algae** into advanced materials and high added-value additives



Strategic orientation: Process

- R2: **Innovative technologies for the pre-treatment and separation of lignocellulosic feedstock** and complex composition streams into valuable fractions while maintaining key characteristics
- R3: **Exploiting extremophiles and extremozymes** to broaden the processing conditions to convert biomass into high-value building blocks
- F1: **Integrated 'zero waste' biorefinery** utilising all fractions of the feedstock for production of chemicals and materials



Strategic orientation: Products

R4: **Proteins and other bioactive ingredients** from side streams and residues

R5: **Novel bio-based chemical precursors** to improve the performance of **mass consumption products**

R6: Competitive **biodegradable, compostable and/or recyclable bio-based plastics** for a sustainable end-of-life phase

R7: Novel secondary **bio-based chemicals without significant fossil-based counterparts** but with high application potential



Strategic orientation: Products

D3: Breakthrough **primary bio-based chemicals without significant fossil-based counterparts** but with high marketability

D4: Innovative **bio-based fertilising products** to increase the sustainability of fertilising practices in agriculture

D5: Advanced **bio-based fibres and materials** for large-volume applications

F2: Large-scale production of proteins for food and feed applications from alternative, sustainable sources



Strategic orientation: Market uptake

S1: Establish **cooperation and partnership with brand owners and consumer representatives** to improve the market access of sustainable bio-based products

S2: Identify **opportunities for ICT to increase the efficiency of biomass supply chains** for the bio-based industry



Understanding the topic text

BBI 2017.D4 - Innovative bio-based fertilising products.....

Specific challenge: Farm commodity products such as fertilisers need to be made more sustainable and resource-efficient. This will help secure European arable land productivity while *also boosting.....*

Scope: Demonstrate the following three uses in value chains:

- Component materials in more sustainable fertilising products from local bio-based waste streams....
- Efficient bio-based biodegradable coatings for Controlled-Release Fertilisers (CRFs).....
- Prebiotic and/or probiotic solutions for tailored soil nutrient improvement

Indicative funding: it is considered that proposals requesting a contribution of maximally EUR 7 million. Nonetheless, this does not preclude the submission and selection of proposals requesting other amounts.

Expected impacts:

- Contribute to KPI 1: create at least 1 new cross-sector interconnection in bio-based economy clusters.
- Overall reduction of at least 10% in the carbon footprint.....
-

Why?

About what?
Focus? Who?

Leading
to?



Dec

- Publication 'topic texts'

Apr

- Call open (11 April 2017)

Sept

- Call closure (7 September 2017)

Oct-
Nov

- Evaluation

Dec

- Results => applicants