A PUBLIC-PRIVATE PARTNERSHIP FOR BIOBASED INDUSTRIES

Bio·based Industries Consortium

Preparing AWP 2018

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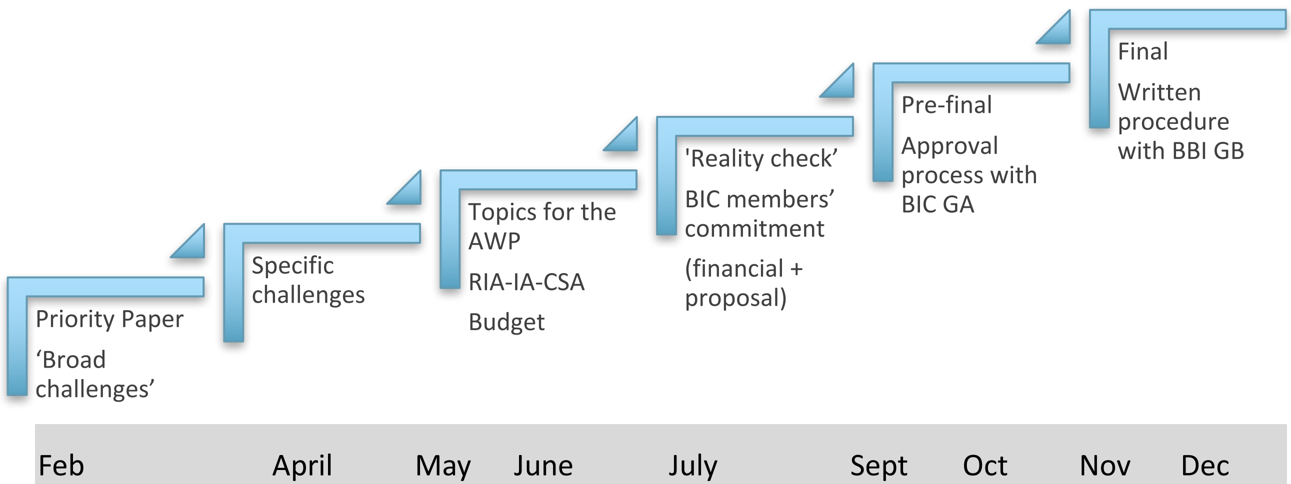
Programming

Steps towards an Annual Work Plan

Bio·based Industries Consortium



Involved in the various steps:
BIC members – SC & SRG – EC – BBI JU Office

Priorities for AWP 2018

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Themes in PP2017-2018 NOT in AWP 2017

- RIA / Demo / Flag:
  - Fish and fish-processing industry
  - OFMSW; wastewater treatment sludges
  - Non food crops; perennial crops
  - (Thermo-) chemical processes and chemical catalysis
- CSAs:
  - Identify/remove hurdles for increased utilisation of OFMSW
  - Communication on benefits and potential risks of new bio-based products

Priorities for AWP 2018

‘Bring back’ themes from previous AWPs, especially AWP 2016

A. With several proposals above the threshold, but no granted project

- 2016.R10 Industrial biotransformation for production of bio-based chemicals (3 proposal, 0 granted)
- 2016.S4 clustering and networking (2 proposals, 0 granted)

B. With one project granted covering only part of the themes

- 2016. R1 Valorisation of organic content of wastewater (8 proposals, 1 granted);
- 2016. R8 Emerging technologies for conversion of organic content of MSW (8 proposals, 1 granted)

C. Any other new priority that came up since June 2016 (date of PP 2017-18)?

D. Previous topics but now at different (higher) TRL? Or different focus?

E. New topics due to changes in market, regulations?

New priorities for AWP 2018

- Efficient use of limited natural resources; incl. land, water, nutrients
  - Efficient use of scarce components; minimal use of those containing pollutants
- CO_2
  - Also from (any) other operation, applying biotechnological processes
- Innovative processing
  - Including synthetic biology
- System modelling
  - ‘Tailor-made’ paths for each feedstock, from intake through processing to final products
- Bio-control
  - ‘bio-input’: bio-fertilisers, bio-pesticides and bio-stimulants
- Education
  - Curriculum, knowledge and skills, career: towards a sustainable bio-based industry!

Dedicated cash call themes (RIA)

Bio-based Industries Consortium

FEEDSTOCK SUPPLY

AGRO

a. **Develop sustainable valorisation of agri-based residual streams, specifically from the food- and food- processing industries into high value-added chemicals and materials.**
   These streams include manure and other residual streams from farming and livestock, slaughter houses, etc. Also can include beverage industries, e.g. whiskey, beer, wine, etc.

b. **Develop specialty crops and specialty plant species or varieties for valorisation into high value-added chemicals and materials via the bio-based industry in Europe, without adversely affecting biodiversity and land use.**

Dedicated cash call themes (RIA)

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FOREST

c. **Develop sustainable valorisation of co-products, side streams and residual streams from the forest-based industries that are otherwise diverted to ‘waste’, landfill or low value use, to the bio-based industry in Europe for valorisation into high value-added chemicals and materials.**

Dedicated cash call themes (RIA)

AQUATIC

d. **Develop sustainable valorisation of co-products, side streams and residual streams from the aquatic- and marine-based industries that are otherwise diverted to 'waste' or low value use, to the bio-based industry in Europe for valorisation into high value-added chemicals and materials.**

Algae should be covered in 'regular RIA projects'. Unless project proposals are addressing the cultivation of specialty or 'new' algae types.

Dedicated cash call themes (RIA)

BIO-WASTE AND CO_2

- **e.** **Develop sustainable valorisation of recycled bio-based material, such as bio-based plastics or fibres, textiles and composites into high value-added chemicals and materials via the bio-based industry in Europe.**

- **f.** **Mobilise CO_2 from industrial sources as a sustainable feedstock for the bio-based industry in Europe for valorisation into high value-added chemicals, materials and biofuels.**

By utilising biotechnologies. Seek synergy with SPIRE

Dedicated cash call themes (RIA)

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PROCESSING

g. **Expand the use of new technologies such as metagenomics, metabolic engineering and synthetic biology, to be able to convert a wider variety of biomass feedstock into new, high value-added chemicals and materials.**

Dedicated cash call themes (RIA)

Bio·based Industries Consortium

PRODUCTS

h. **Develop bio-based aromatics for high value-added applications in a wide variety of market sectors.**
Technologies could either focus on specific aromatic building blocks or on 'functionalised' molecules. PCT: this topic should include all technologies and substrates.

i. **Develop breakthrough bio-based chemicals without significant fossil-based counterparts for application in high-value market segments.**


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