



**State of the Bio-based Industries Joint
Undertaking (BBI JU)**

BBI JU 2015 Calls

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processing**

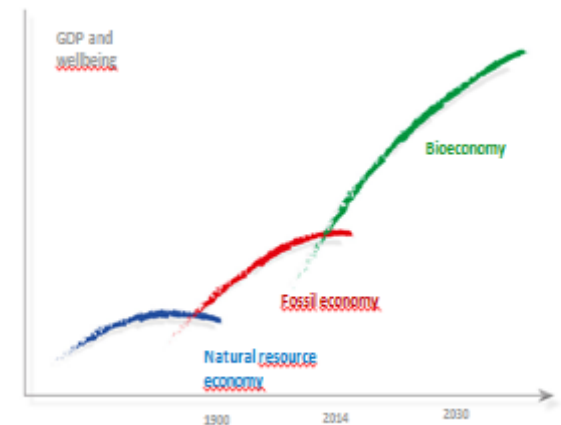
OMEK 25/09/2015

Public-Private Partnership



Bio-based industries: the new wave of industrialisation

- The bio-based industries sector in the EU is currently of about 57 billion € in annual turnover with 300,000 direct and indirect jobs.
- Bio-based industries increase EU competitiveness through re-industrialisation and sustainable growth and strengthen rural economies.
- Worldwide, the race is on! Almost 1800 biorefineries to be commissioned globally until 2022*. Of those, more than half, will be advanced biorefineries capable of converting non-food feedstocks into a range of end product.
- *Pike Research





Bio-based Industries Joint Undertaking

Public Private Partnership **supporting R&I for bio-based industries:**

- Partners: **European Commission and Biobased Industries Consortium (BIC)**
- Budget: **€ 3.705 billion** (about 75% from industry)
- Implementation:
 - Principles of **openness, transparency and excellence**
 - Horizon 2020 rules for participation
- Objectives: At least **5 new bio-based value chains** for Europe based on **2nd generation/advanced biorefineries**

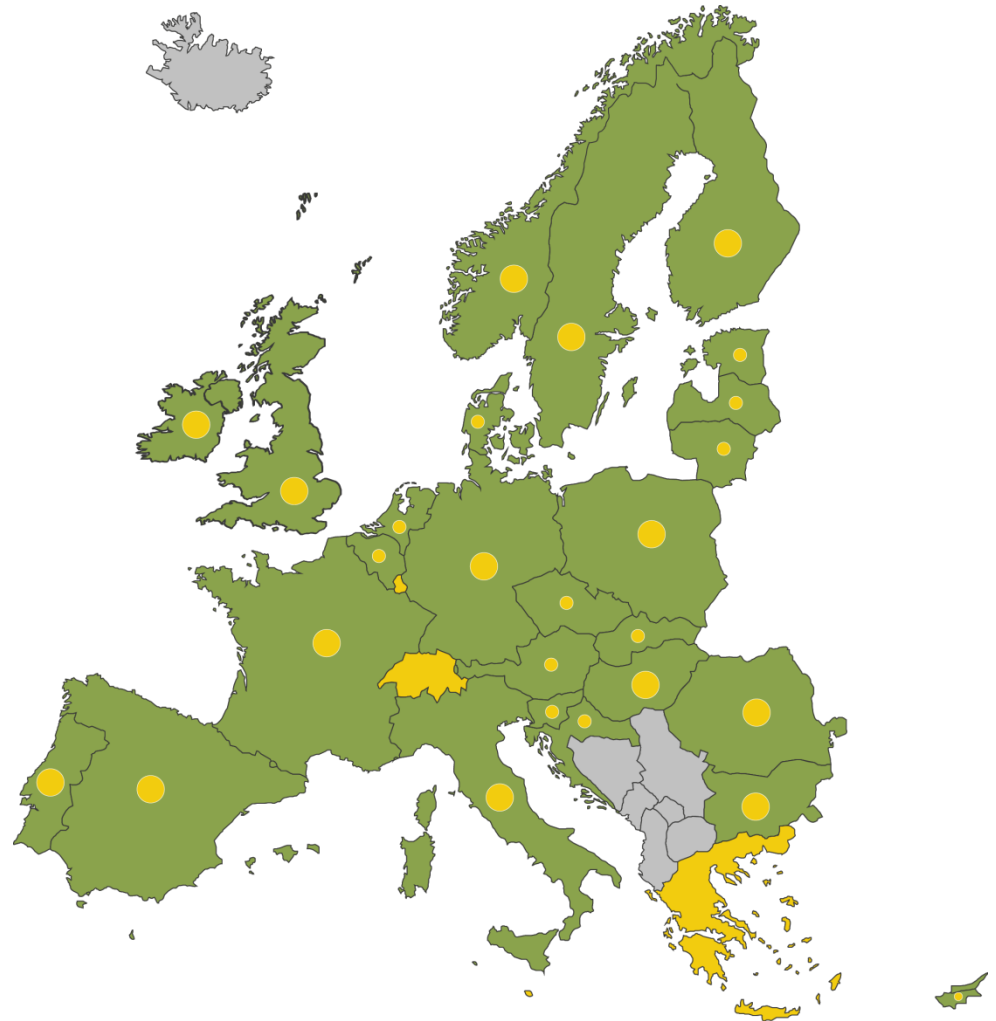


www.bbi-europe.eu



Private partner: Bio-based Industries Consortium (BIC) More than 170 in one year, and still growing

- 77 Full members
 - 43 Large industries
 - 20 SMEs
 - 14 Clusters
- 142 Associated members
 - 47 Universities
 - 71 RTOs
 - 10 European trade organisations
 - 7 Associations
 - 5 European Technology Platforms (ETPs)
 - 1 Public institution
 - 1 Bank
- Sectors covered to date
 - Agriculture
 - Agro-food
 - Forestry / Pulp and Paper
 - Technology providers
 - Chemicals
 - Energy





Focus of the BBi JTI

Feedstock

- Fostering a sustainable biomass supply and building new value chains

Biorefineries

- Optimising efficient processing through R&D and upscaling in large-scale demo/flagship biorefineries

Markets, products and policies

- Developing markets for bio-based products and optimising policy frameworks



Types of actions

- **Research and Innovation Actions** are industry-driven and aim at filling the gaps in technological innovations. RIA focus on the development of specific technologies and concepts needed to realise the value chains, proving the principles in pilot installations up to TRL 5.
- **Coordination and Support Actions** address cross-sectorial challenges and support value chains through knowledge development (studies) and networking.
- **Innovation Actions – “Demonstration” Actions** corresponding to TRL levels 6 to 7 aim to validate the technical and economic viability of a new or improved technology, product, process, service or solution in an operational environment.
- **Innovation actions – “Flagship” Flagship Actions** mainly include activities corresponding to TRL level 8. Flagships are the first units of value chains operating at an economically viable scale. Often such projects involve a validation of technical and economic performance at system level in real life operating conditions provided by the market.



BBI JU Call(s)

2014 Call



- Published: 09-07-2014
- 16 Topics. 10 projects selected
- Grant agreement signature: 15-06-2015
- Estimated BBI JU Funding €50 million

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



- Published: 25-08-2015
- Deadline: 03-12-2015
- Estimated BBI JU Funding €106 million
- No. of topics: 19



HORIZON 2020

Work Programme 2016-2017 Societal Challenge 2

**Food security, sustainable agriculture and
forestry, marine, maritime and inland water
research, and the bioeconomy**



**Bio-based innovation for
sustainable good and services**

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Directorate F, Unit F2 – Bio-based products and processing

Bio-based Innovation for Sustainable Goods and Services CALL a global € 27 million budget to:

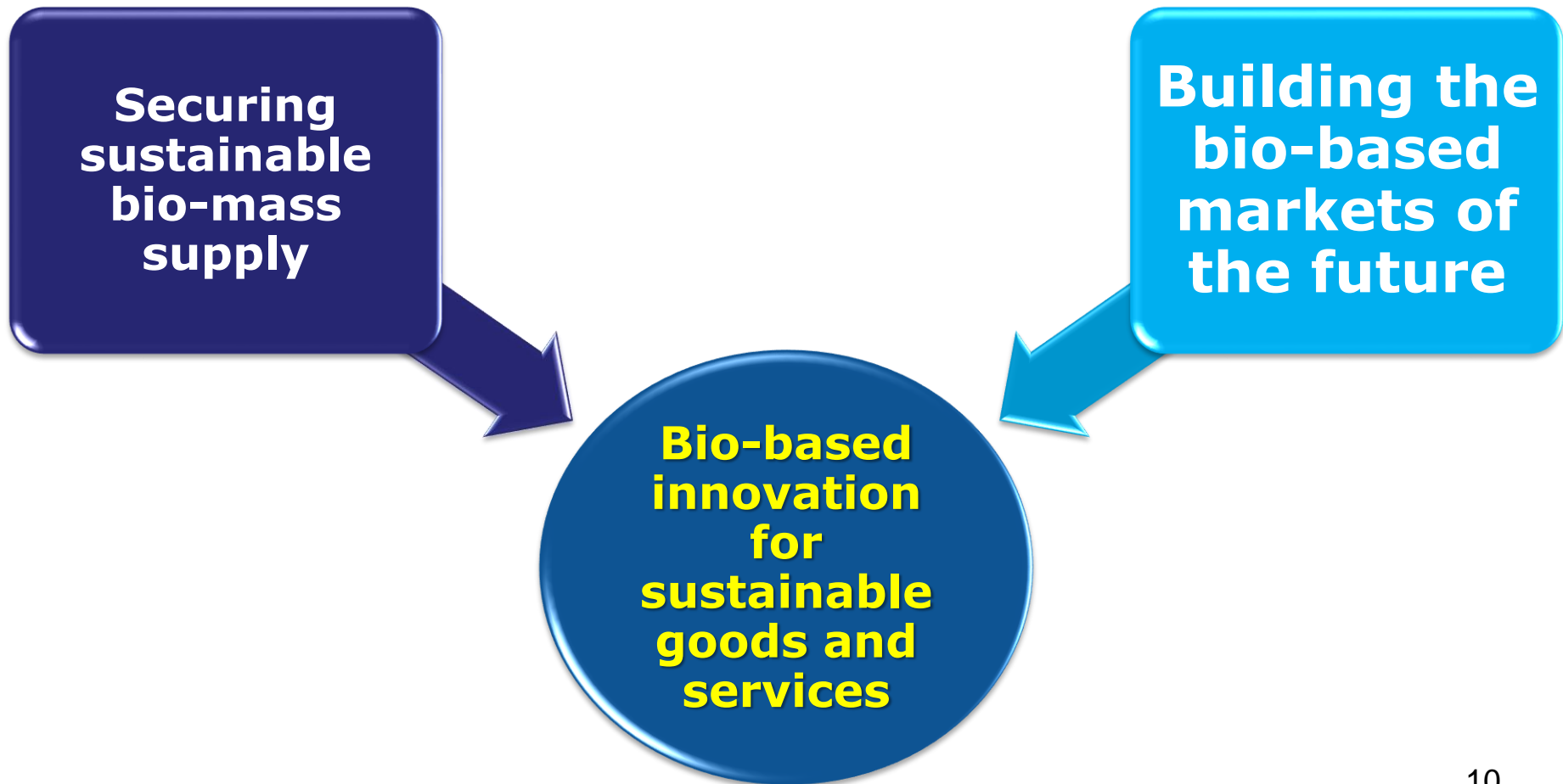
➡ Boost bio-based markets to create over 3% growth per year in this sector and 90 000 jobs

➡ Re-industrialise the EU through new bio-based value chains, securing sustainable biomass



Activities of this call are complementary to the Joint Technology Initiative on Bio-based Industries 2016-17 Indicative Budget €300 million".

Bio-based innovation - AREAS



Bio-based innovation TOPICS summary

Securing Sustainable biomass supply

- Tree breeding strategies and tools
- Forest production systems
- Sustainability schemes
- Data on bio-based industries and products

- Circular economy call –Potential of urban waste

Building the bio-based markets of the future

- Mobilisation and mutual learning
- Widening regional dimension

Securing sustainable biomass supply



4 topics – 23 M€

- *Sustainability schemes for the bio-based economy*
- *Towards a methodology for the collection of statistical data on bio-based industries and bio-based products*
- *Adaptive tree breeding strategies and tools for forest production systems resilient to climate change and natural disturbances*
- *Intelligent solutions and tools in forest production systems, fostering a sustainable supply of quality wood for the growing bioeconomy*



Building the bio-based markets of the future



2 topics – 4 M€

- *Bio-based products: mobilisation and mutual learning action plan*
- *Bio-based industries regional dimension*





HORIZON 2020

**Thank you
for your attention!**

Find out more:

www.ec.europa.eu/research/horizon2020

<https://ec.europa.eu/programmes/horizon2020/en/draft-work-programmes-2016-17>