

## **BBI Joint Undertaking Work Plan 2014 Fact Sheet**

The Bio-based Industries (BBI) Joint Undertaking is a new €3.7 billion public-private partnership between the EU and the Bio-based Industries Consortium (BIC). The EU contributes €975 million while BIC members invest €2.7 billion over 2014-2024.

**Scope:** The BBI is about using innovative technologies to convert Europe's untapped renewable resources and wastes into greener everyday products such as food, feed, chemicals, materials and fuels - sourced and made in Europe.

**A Value Chain Approach:** The BBI will optimise and create new value chains from primary production to consumer markets. These are:

1. Value chain 1 (VC1): From lignocellulosic feedstock to advanced biofuels, bio-based chemicals and biomaterials;
2. Value chain 2 (VC2): The next generation forest-based value chains;
3. Value chain 3 (VC3): The next generation agro-based value chains;
4. Value chain 4 (VC4): Emergence of new value chains from (organic) waste;
5. Value chain 5 (VC5): The integrated energy, pulp and chemicals biorefineries.

### **Priorities 2014:**

- **Fostering high potential initiatives:** Demonstration and Flagship initiatives (among others) aimed at doubling the share of bio-based chemicals produced in Europe in the short- and medium-term, increasing the market share of bio-based polymers and composites, and increase the value of agro-food residues;
- **Ensuring medium- and long-term sustainable biorefinery approaches:** Research and Innovation (R&I) activities to increase biomass mobilisation by 10%, and to reduce imports of protein for feed and fertiliser components used for feedstock production by 15% and 10%, respectively;
- **Addressing high impact / complex long-term issues:** R&I activities focused on achieving sustainable processing of lignocellulosic biomass, and on meeting the 15% target increase in waste and by-product utilisation by 2020.

**Innovation:** Horizon 2020 will put more emphasis on innovation than its predecessor, FP7. This trend is reflected in the activities of the Bio-based Industries Joint Undertaking. Industry participation in all actions will be crucial to achieve the objectives of the Joint Undertaking. A significant part of the initiative's budget will be spent on Innovation Actions (demonstration and flagship activities).

**Budget:** A budget of EUR 50 million (not including the contributions from industry, which are expected to reach up to EUR 100 million) containing a total of 16 topics (see table below). Reimbursement rates are in line with the Rules for Participation of Horizon 2020, except for Research and Innovation Actions where funding cannot be requested by large industries.

## Research and Innovation (R&I) Actions

- R&I Actions aim to address specific research and innovation needs at particular points of the value chain.

## Innovation Actions

- Innovation Actions aim to address innovation challenges in up-scaling technology and demonstrating cost-effectiveness, sustainability and fulfillment of market requirements in a value chain. Innovation actions include demonstration actions and flagship actions. As a general principle, Innovation Actions are industry driven.

## List of topics

	Topics	Budget* (Million EUR)
Research & Innovation Actions	<b>R1:</b> Efficient pre-treatment of lignocellulosic residues to advanced bio-based chemicals and biomaterials	5-8
	<b>R2:</b> New sustainable pulping technologies	>2
	<b>R3:</b> New products from sustainable cellulose pulp exploitation	5-8
	<b>R4:</b> Fibres and polymers from lignin	>2
	<b>R5:</b> Sugars from effluents of the pulping process and discharged fibres	>2
	<b>R6:</b> Fermentation processes to obtain biosurfactants and specialty carbohydrates from agricultural and agro-industrial streams	>2
	<b>R7:</b> Protein products from plant residues	>2
	<b>R8:</b> Bioactive Compounds from meso-organism conversion	>2
	<b>R9:</b> Valuable products from heterogeneous biowaste streams	>2
	<b>R10:</b> Nutrient recovery from biobased waste streams and residues	>2
Innovation Actions	<b>D1:</b> Lignocellulosic residues to (di)carboxylic acids, diols and polyols	>8
	<b>D2:</b> Chemical building blocks and value-added materials through integrated processing of wood	>8
	<b>D3:</b> Advanced products from lignin and cellulose streams of the pulp and paper industry	>8
	<b>D4:</b> Functional additives from residues from the agro-food industry	>8
	<b>D5:</b> Cost efficient manure valorisation on large scale	>8
	<b>F1:</b> Added value products from underutilised agricultural resources	>25

\*Estimated total eligible budget of proposals - including industry contributions. This does not preclude submission and selection of proposals with another budget.

**Rules for participation:** The single-stage Call for Proposals is open to all participants and evaluated by independent experts based on the principles of excellence, impact, and quality and efficiency of the implementation.

**Public Info Day on the BBI Call for Proposals:** 2 September 2014 in Brussels.

Register via [www.bbi-europe.eu](http://www.bbi-europe.eu)

**Deadline for submission of proposals:** 15 October 2014

**For more information:** [www.bbi-europe.eu](http://www.bbi-europe.eu)