

INFORMATION ON SELECTED PROJECTS OF THE CALL 2014

The Bio-based industries Joint Undertaking published the call "H2020-BBI-PPP-2014-1" on 9 July 2014, with a total budget of around € 51.000.000,00 including EFTA appropriations. 38 eligible proposals were received and evaluated during the period 9 to 27 November 2014. **10 proposals** (7 RIA, 2 DEMO and 1 FLAGSHIP) were placed on the main list and will be funded consuming a total budget of almost 50 million with a total industry contribution of 28 million.

Research and Innovation actions (RIAs)

Seven grant agreements have been signed for Research and Innovation projects. Research and innovation actions are industry-driven and aim at filling the gaps in technological innovations at particular points of a value chain.

They 7 RIA projects funded are spread around the 4 value chains covered by the 2014 Call:

- Efficient pre-treatment of lignocellulosic feedstock to advanced bio-based chemicals and biomaterials (US4GREENCHEM)
- New sustainable pulping technologies (PROVIDES)
- Fibres and polymers from lignin (SmartLi and GreenLight).
- Fermentation processes to obtain biosurfactants and specialty carbohydrates from agricultural and agro-industrial streams (CARBOSURF)
- Protein products from plant residues (PROMINENT).
- Nutrient recovery from biobased waste streams and residues (NewFert).

The bio-based products from this value chains help to mitigate climate change by realising the replacement of fossil-based materials by bio-based materials with a positive social impact and lower environmental footprint. This will fulfil market and consumer demand and create new markets by demonstrating routes and concepts for new and innovative materials into new products.

Demonstration actions (DEMO) and FLAGSHIP:

Three grant agreements have been signed for Innovation actions. Innovation actions cover both demonstration and flagship projects. Demonstration projects aim to validate the technical and economic viability of a new or improved technology, product, process, service or solution in an operational environment. The purpose of these value chain demonstration projects is to provide the backbone for subsequent flagships. Flagship projects are the first units of value chains operating at an economically viable scale.

The two demonstrations actions are PULP2VALUE and ValChem.

PULP2VALUE aims to demonstrate an integrated and cost-effective cascading biorefinery system to refine sugar beet pulp and isolate high value products for detergents, personal care, oil & gas, paints & coatings and composites. The project will

spur rural development in sugar beet growing districts by connecting them in new cross-sectoral value chains with the chemical and food industry. The project is led by Royal COSUN (NL). The consortium includes 7 partners (of which 3 are SMEs) representing 4 different EU countries (NL, BE, DE and UK).

ValChem will demonstrate the techno-economic viability of a sustainable and integrated process for the production of chemicals from wood. The project will make use of existing demonstration facilities which will be converted for the purpose of the project. The project consortium is led by UPM-Kymmene Oyj (FI) includes 4 partners (1 of which is SME) from 4 different EU countries (FI, SE, FR and DE).

The Flagship project is called FIRST2RUN, and will demonstrate the techno-economic and environmental sustainability at industrial scale of a first-of-a-kind value chain. Specifically, underutilized oil crops (i.e. cardoon) - grown on arid and marginal lands – will be exploited for the extraction of vegetable oils, to be further converted into bioproducts (biolubricants, cosmetics, bioplastics). By- and co-products from the process will be also valorised both for energy, feed for animals and added value chemicals production. The project consortium is led by NOVAMONT (IT) and includes 7 partners (3 of which are SMEs) from 5 different EU countries (IT, NL, UK, SK and BE).