



SPAIN
España



Spain published its national Bioeconomy Strategy in 2016 and since then, three annual action plans on a yearly basis with the aim to transform the Spanish economy into a more sustainable one. Spanish bioeconomy has an annual turnover of approx. EUR 198 500 million and employs nearly 1 339 000 people.*



With more than 65% of the beneficiaries being involved in projects focusing on R&I and 30% in projects operating on demo-scale, Spain's BBI JU activities in the bioeconomy sector revolve mainly around innovation and demonstration of technologies and products in areas such as agriculture, food products, bio-based chemicals and bioplastics.

Examples of BBI JU projects with Spanish beneficiaries :

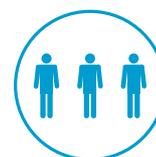
- By developing two pilot plants in Italy and Spain to demonstrate the feasibility of extracting high-value compounds from agricultural and food processing waste, **AgriMax** will add value to the rural economy, stimulate the creation of new skilled jobs, protect the environment and create new market opportunities.
- EnzOx2** aims to develop new bio-chemical technologies based on the use of oxidative enzymes that will offer the opportunity to overcome bottlenecks in areas with massive potential: biomass-based chemical building blocks, flavour and fragrance ingredients and active pharmaceutical ingredients.
- By developing novel bioplastic materials derived from food waste and agricultural by-products for use in manufactured 3D Printing parts and tools for the building and automotive sectors, **BARBARA** contributes to the development of an innovative, environment-friendly and forward-looking modern industry.
- By validating and up-scaling an environment-friendly and low-cost production process to produce and extract high value-added compounds from algae for use in food, feed and cosmetic products, **BIOSEA** will reduce Europe's dependency on feedstock imports, diminish the pressure on land resources and open new markets and business opportunities.
- The aim of **ICT-BIOCHAIN** is to identify effective ways to use ICT in order to increase the efficiency of biomass supply chains for the bio-based industry. The use of technology will support the development of the EU bioeconomy by facilitating greater availability of competitively priced and sustainable biomass.



2/3
of beneficiaries are research centers



47%
of BBI JU funding goes to SMEs



Nearly **1.3 million** people employed in the bioeconomy sector

*Source: EC Bioeconomy Knowledge Center (2015); German Bioeconomy Council (2015); Comunidad de Bioeconomía (2016)



▶ More information about BBI JU projects in Spain



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