

Project coordinator

Cecilia GIARDI Novamont SPA

 Tel.: +39 0321 699 661
 cecilia.giardi@novamont.com

 Fax: +39 0321 699 729
 www.novamont.com

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Project background

In the BIO-QED project an entrepreneurial consortium was built with the joint ambition to generate hard evidence and collect all technical/economic key design parameters needed for investment decisions for the first industrial production plants for the bio-based building blocks 1,4-butanediol and itaconic acid, which would definitely contribute to guiding these 2 important bio-based chemical building blocks through the notorious "Innovation Valley of Death" to industrial deployment.

The consortium is based on strong industrial leadership on both of the selected products, and covers the full supply chains for bio-based BDO and IA. The planned demonstrations are solidly based on preceding research results originating from the KBBE Flagship Project BioConSepT and the internal research programs of the industrial partners.

Consortium of BIO-QED



The project comprises ten partners from six countries: Italy, Spain, France, Croatia, the Netherlands and Germany. The research consortium is being managed by Novamont.



BIO-QED Quod Erat Demonstrandum

Large scale demonstration for the bio-based bulk chemicals 1,4-butanediol and itaconic acid aiming at cost reduction and improved sustainability



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The BIO-QED project aims to proceed an important step forward to prepare for a transition from a fossil- to a bio-based economy and this European Bioeconomy as described in the EC Strategy Paper and Action plan "Innovating for Sustainable Growth: A Bioeconomy for Europe." The current starting position for Europe on the biotechnological production of added value chemicals from renewable biomass is still very good, with its leading scientific position on industrial White Biotechnology, the global top positions of the European chemical and agro-food industries and the sophisticated logistic infrastructure, but there is a urgent need to go to commercial exploitation to prevent that Europe loses its strong position to faster acting competing economies.

Project

Opening new industrial routes for the production of important chemicals from **renewable sources** rather than traditional petrochemical sources: this, in summary, is the aim of the BIO-QED project, financed by the European Union as part of the Seventh Framework Programme, involving 10 partners from 6 European countries (Italy, Germany, France, the Netherlands, Croatia and Spain).

The project, which will last for 4 years, was officially launched on 1 January 2014. It is built by *Novamont* hosted the initiative's kick-off meeting, which was attended by all leading companies from industry and European research, namely *Fraunhofer Institut, nova-Institut, Cargill, Lubrizol, Rina, TNO, Miplast, Patentopolis and Mater-Biotech.*

BIO-QED fits perfectly with the **EU's Bioeconomy strategy**, which is intended to guide the European economic system towards a broader and more sustainable use of resources, reconciling the requirements of agriculture and food safety with the sustainable use of renewable sources for industrial purposes. It will concentrate on the sustainable upscaling of the production of itaconic acid and butanediol.

Project structure

The project structure covers the whole value chain from the feedstock preparation to the downstream process as well as the Scale-up and application development. It is surrounded by the project management, a sustainability assessment and the dissemination and exploitation.









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