

Another primary purpose of the project is to **train researchers** with the skills and the systemic vision needed to operate within the integrated biorefineries field. The training is addressed to **young and highly qualified researchers** with the aim to offer a complete overview of technical and managerial knowledge in the field of research and development of processes for the production of chemical intermediates from renewable resources.



For further information:

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www.novamont.com/bit3g



BIT³G project fits within the strategic development plan of **SPRING Cluster**. SPRING was born in 2012 to encourage the **development of biobased industries in Italy** through a holistic approach to innovation, aimed at revitalising Italian chemistry in the name of environmental, social and economic sustainability, in line with the latest EU policies in the field of Research and Bioeconomy.



SPRING

*Sustainable Processes and Resources
for Innovation and National Growth*

Italian Cluster of Green Chemistry

For further information visit:

www.clusterspring.it

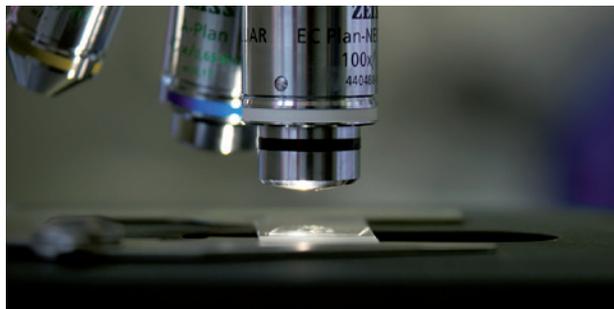
**THIRD GENERATION
BIOREFINERY INTEGRATED
INTO THE LOCAL AREA**



BIT³G project is funded by **Ministry of Education, Universities and Research** as part of the National Technology Cluster of Green Chemistry **SPRING** – Sustainable Processes and Resources for Innovation and National Growth.



investiamo nel vostro futuro



The BIT³G ultimate objective is the development of a **biorefinery integrated into the local area** which, starting from the identification and the study of dry crops not in competition with the food sector and in synergy with local biodiversity, **develops high added value bioproducts** through technological processes with low environmental impact and a cascading use of biomass. The aim of the project is to demonstrate that through the identification of local scraps and the appropriate use of dry crops and related chemical, biotechnological and physical transformation technologies, concrete examples of sustainable economic system can be developed and replicated in other areas, in connection with deindustrialized chemical sites.

Officially started on the 1st January 2014, the project has a 3-year duration. It is **coordinated by Novamont** and involves seven other partners, representing the industrial and research excellence of the Italian Bioeconomy sector.

The project is based on 5 Work Packages:

- WP1** - Studies on the selection of genotypes, on agronomic techniques and on crops
- WP2** - Development of processes for the extraction and processing of lipids from oily biomass
- WP3** - Analysis of biotechnological/chemical aspects of biomass valorization to obtain oils
- WP4** - Validation of products and by-products
- WP5** - Evaluation and optimization of energy and economic efficiency and of the environmental sustainability of the entire life cycle of the agroindustrial system

