

The Lombardy Green
Chemistry Association

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@Cluster_LGCA

Shaping the bio-based bioeconomy as one of the most powerful tools for sustainable development



Funded in 2013 and recognised in 2015 by the Lombardy Region as the regional Cluster of Bioeconomy and Green Chemistry



Since 2016 technical coordinator of the Bioeconomy Pilot of the Vanguard Initiative

AND NEW BUSINESS POLICIES DEVELOPMENT OPPORTUNITIES AND GOVERNANCE ACTION CREATION PLAN DESIGN NETWORKING & BUSINESS CONSORTIA BUILDING DEVELOPMENT AND

MARKET UPTAKE

50+ members

4 value chains

50+







- 27 SMEs
- 7 Big industries
- 6 NGOs
- 6 Universities
- 6 Research Institutes





- **AGROFOOD**
- **GREEN CHEMISTRY**
- FOOD/PHARMA
- WOOD



European, national and regional funded projects on bioeconomy, circular economy fields.

65% beyond TRL 6 with validation of pilot plan at industrial level

KNOWLEDGE TRANSFER

Cluster's activities areas

CIRCULAR BIOECONOMY & BIOECONOMY MANAGMENT

Promote the bio-based products market uptake, the implement policies tools, education and training



BIOREFINERY & ADVANCED BIOFUELS

Creating biorefineries for the integrated production of value-added products from no food crops and waste biomass

GREEN CHEMISTRY

Products and processes for replacing and / or reducing the use of rare, toxic and polluting substances and reducing energy consumption



NEW BIO-BASED PRODUCTS

Applications of synthetic and systemic biology for the bioeconomy

Artificial intelligence for a safer and sustainable chemistry



Analisi e Ricerche









- 1. measure different parameters to identify the situations of danger during the normal analytical workflow
- 2. increase business productivity reducing the standard cost associated with the analysis
- 3. create a secure system in which the COBOT operates closer to the laboratory operator in a shared work environment
- 4. detect dangerous chemical dispersions with a VOC sensor preventing the operator exposition and increase safety

The use of a COBOT system in laboratory chemical analysis allows overcoming some safety problems