Bioenergies, Biobased molecules et Biobased materials from Renewable CArbone

3BCAR Carnot Institute mobilizes two key levers for Bioeconomy emergence: Biotechnologies and Green chemistry; gathering multidisciplinary approaches from biomass production, biorefinery until functional properties. Circular economy is considered by waste and byproducts valorization, cascading uses and eco-design.

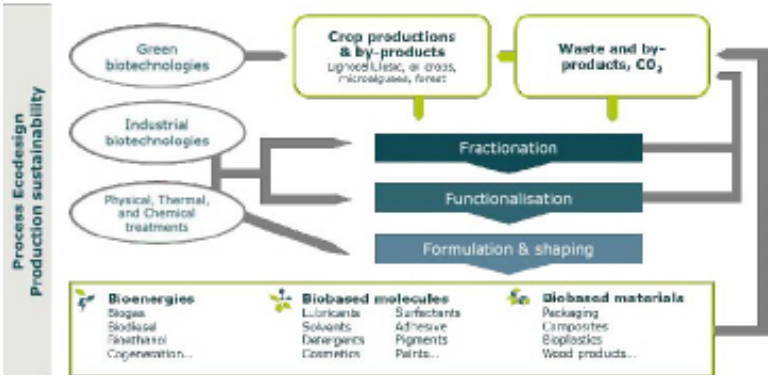
www.3bcar.fr/en

INNOVATE AND SUPPORT BIOECONOMY EMERGENCE WITH BIOTECHNOLOGIES AND GREEN CHEMISTRY

Bioeconomy a model for the future

Faced with diverse actual challenges (sustainable development, fossil resources depletion, climate change…), Bioeconomy is recognised in Europe as a model for the future. Based on production from biological renewable resources conversion, this economical strategy benefits from both technological and systemic approaches.

From biomass... to functional properties



3BCAR: a multidisciplinary skills offer

- Plant biomass production with enhanced properties
- Biomass fractionation and biorefinery
- Functionalisation for obtaining building blocks
- Bioproducts formulation and shaping
- Process ecodesign and Production sustainability

Target markets

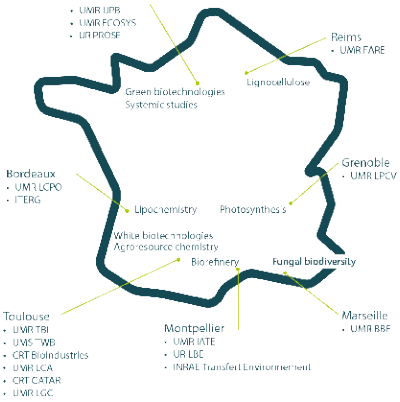
- **Biomass production (crops, microal-gaes) and plant biotechnologies**
- **Biorefinery**
- **Industrial biotechnologies**
- **Green chemistry: lubricants, surfactants, solvents**
- **Fine chemistry: cosmetic and biologically active molecules**
- **Bioenergies: biofuel, biogas**
- **Biobased materials**
- **Ferments and enzymes**
- **Environment and waste valorization**
- **Agro-industry**
- **Territories management**

Bioénergies *Biomolécules* *biosourcés Matériaux*

A SCIENTIFIC METWORK OF EXCELLENCE AVAILABLE TO BOOST

A french structured R&D network, from laboratory to pilote scale

Skills and technological capacities to support partners climbing on TRL scale, from upstream research in laboratory until pilote scale (TRL 6)



- 12 research laboratories
- 4 centers for technological resources (CRT Bio, CATAR, GPTE, ITE)
- 1 preindustrial demonstrator (TWB)
- 1 industrial technical center (ITERG)

Our engagements to facilitate partnership

One stop shop
Listening to your needs in order to orientate you towards competencies of more than 500 scientists

Contractualisation quality
Professionalism, tools and procedures for steering contractual relationship. Action certified ISO9001

Defined IP policy
Good practices for intellectual property and technology transfer, to ensure results traceability and protection

Key Figures

Research staff: 756
Doctoral student: 217

Partnering research revenue: € 19M
Consolidated budget: € 89,4M

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