



**VANGUARD INITIATIVE**

New growth through smart specialisation

# Bioeconomy

**Interregional cooperation on innovative use of non-food biomass**

## INTRODUCTION TO THE PILOT

The Vanguard Initiative Bioeconomy Pilot aims to set up trans-regional value chains in the area of the innovative and sustainable use of renewable resources.

The Bioeconomy Pilot also aims to promote the development of new biobased value chains in Europe, by performing pilot and demonstration activities, from regional level or within neighbouring regions, to a higher interregional level, thereby creating more critical mass through complementary assets' exploitation and technological developments' acceleration.

Led by Lombardy (IT) and Randstad (NL) regions, the Vanguard Initiative Bioeconomy Pilot brings together all interested regions in the creation of a bioeconomy strategy and boosting innovation in the bio-based sector.

## ACTIVITIES

The Vanguard Initiative promotes the interaction among all relevant EU actors along bio-based value chains active in different regions in order to explore how the combination of different strengths can lead to a faster deployment of new technologies.

Potential benefits of new interregional partnerships include exploiting complementarities, encouraging projects at the demonstration and piloting stage towards their upgrading and business exploitation (beyond TRL 5), opening and sharing of specialised infrastructure, access to a larger community of end-users, pooling good practices and jointly addressing non-technological issues (e.g. standards) etc.

The Vanguard Initiatives promotes interregional cooperation based on “demo-cases” such already established ones focused on lignocellulose biorefinery, bio-aromatics and advanced and sustainable biofuels, but also strategically important ones to be developed, such as biopolymers and forest-based biomass valorisation for new bio-based materials and processes.

## DEMO CASES

### Lignocellulose biorefinery

Set-up of European value chains from lignocellulose biomass to intermediate and end-products of bulk and fine chemicals.

### Bio-aromatics

Creating interregional value chains to produce biobased aromatic molecules and innovative sustainable materials.

### Advanced and sustainable biofuel

Enhance a wide diffusion of bio liquified natural gas for sustainable transport across Europe, by advancing the state of the art of biogas production and upgrading.

## CONTACT DETAILS

### Co-leading regions:

Lombardy (IT) and Randstad (NL).

### Lombardy:

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