

VANGUARD INITIATIVE

New growth through smart specialisation

The Bioeconomy Pilot of the Vanguard Initiative

Interregional cooperation on innovative use of non-food biomass

Natural Fibertastic 2022, October 13th 2022

Circular Biobased Delta, Bergen op Zoom

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Regione
Lombardia

Cluster Tecnologici Lombardi

The Bioeconomy partnership at a glance

Supported by Policy, driven by Industry



Long term Goals



Support the creation of new **integral bio-based value chains** and connections between chemistry, agro-food, bioenergy, biofuels sectors



Promote new business opportunities through interregional cooperation and exchange of ideas*



Encourage projects at the demonstration stage towards their upgrading and business exploitation (beyond TRL 5)

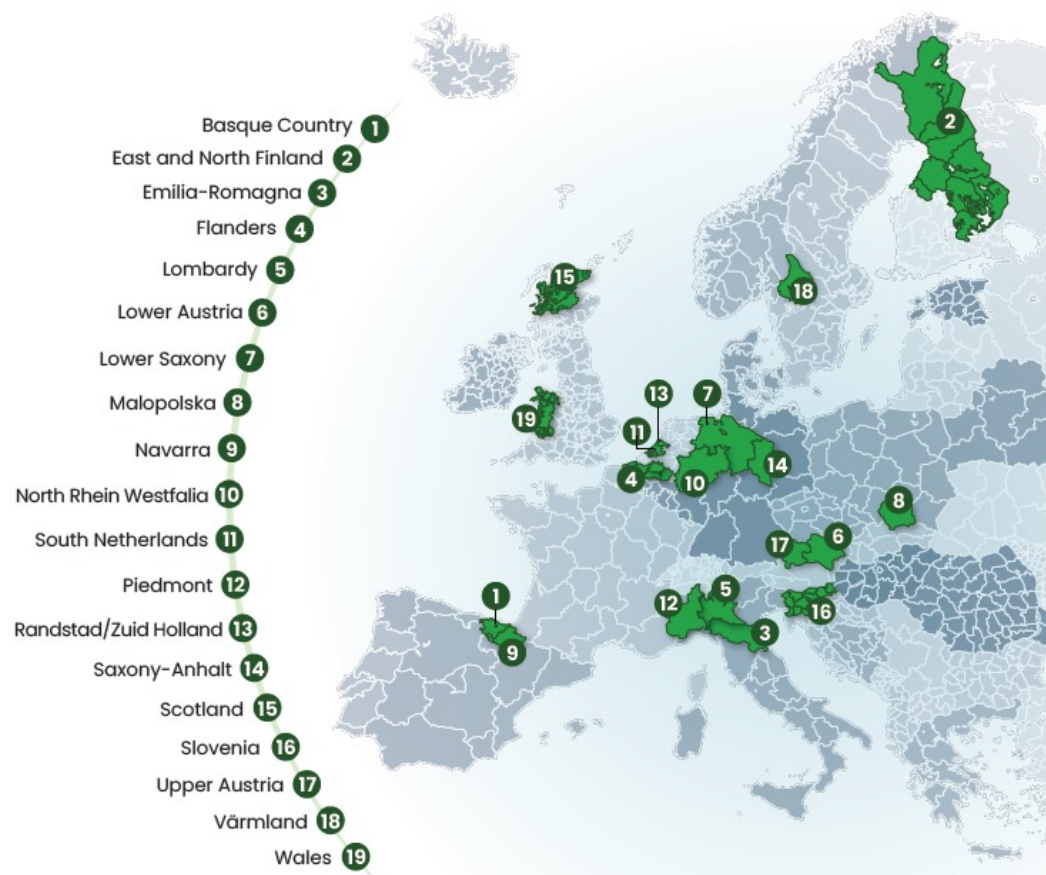


Support the establishment of **investment pipelines** based on industry-driven business cases coherent with the smart specialisation strategies of the participating regions



Promote the political engagement to position the Smart specialisation agenda at the centre of the EU's drive for a sustainable economy

The Vanguard initiative regions participating in the Bioeconomy Pilot



OUR COMMITMENT

- Co-led by **Lombardy (IT)** and **Randstad (NL)** Regions
- Technical coordination led by the **Lombardy Green Chemistry Cluster (IT)**
- **19 VI regions** involved
- Works for getting **better engaged** VI regions and increasing the number of **new members**
- **monthly matchmaking and investing forums, 1to1 meetings and new partnerships.**

The Bioeconomy Pilot demo-cases

4
Demo-case

12
Use-cases

19
regions involved

50+ M€
mobilized

50+ industries & RTOs involved

**Bioaromatics
demo-case**

**Lignocellulosic
biorefinery demo-case**

**Liquified Bio-methane
demo-case**

**Biopolymers
demo-case**



Creating interregional value chains to produce lignin-based aromatic molecules and innovative sustainable materials



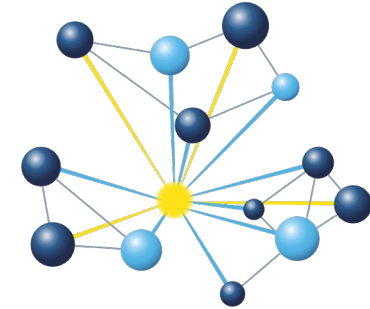
Set-up of European value chains from lignocellulose biomass to intermediate and end-products of bulk and fine chemicals.



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



Creating interregional value chains by matching polymer market applications and new biobased technologies



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RESULTS OBTAINED UNTIL NOW

- Mapping **over 50 PROMISING CIRCULAR BIOECONOMY BUSINESS MODELS** ACROSS EU
- Designing and implement **BUSINESS PLANS** Suitable for private and public funds
- **Open access** to EU companies to the best portfolio for biobased materials
- Commissioning of **10 pilot plants**
- Enhancing **12 USE-CASES** gathering over 50 public-private entities across EU
- Promoting over **20** matchmaking events annually involving **1.000+ people**

Pilot's specific objectives

2022 ACTIONS

INDUSTRY INSPIRED

01

LEARN

- Mapping promising business models, facilities, projects
- Identify lead regions and actors

02

CONNECT

- Matching events for complementary partner
- Identity funding instruments
- Stimulate interregional dialogues



INDUSTRY DRIVEN



03

DEMONSTRATE

- Support on definition of business plans
- Define win-win interregional business opportunities

04

COMMERCIALISE

- Launch of new ventures, partnerships, start-up
- Create new interregional value chains



INDUSTRY OWNED

- **MATCHMAKING & PARTNERING EVENT ORGANISATION**
- **BUSINESS PLAN DESIGN AND DEVELOPMENT**
- **ADVANCED BUSINESS MODELS IDENTIFICATION**
- **DEMONSTRATING THE LARGE-SCALE VIABILITY OF BIOBASED PRODUCTS**
- **TRIGGER INTERREGIONAL COOPERATION AND ATTRACT PRIVATE FINANCING SOURCES**

Pilot's mid-term achievements of 2022

SHAPE INTERREGIONAL FUNDING SCHEME to boost innovation up

Milan, 11 May
9:00 - 12:30 Acquario Civico di Milano
Viale Gadio, 2

Good practices and built capacities for cross-regional cooperation in the Alpine Region and beyond
Final conference

Interreg Alpine Space
ARDIA-Net



CONNECT stakeholders in the field by B2B matchmaking events



VANGUARD INITIATIVE
NEW GROWTH THROUGH SMART SPECIALISATION

- Bioeconomy Pilot partnering event -
shaping bio-based value chains through cross-regional cooperation

Université libre de Bruxelles
Boulevard du Triomphe accès 2 building UAE
18 May 2022
15.30 - 17.30 CET

- 16 Regional/national/local public authorities
- 20 Business support organisations / Regional agencies
- More than 10 Capacity Building activities
- 6 regional Living Labs
- 1 Pilot call scoping 2 macroregions
- 1 Policy Forum

VANGUARD INITIATIVE

Pilot's mid-term achievements of 2022

BOOST COOPERATION among EU REGIONS

EU BIOECONOMY CONFERENCE

BIOECONOMY

Enabling the European Green Deal
in challenging times

6-7 October
2022



Bioeconomisation of regions

Exploring the opportunities that regional development and cohesion policy bring to develop a sustainable and circular bioeconomy, with a special focus given to the BIOEAST region

Pilot's mid-term achievements of 2022

SHAPE INTERREGIONAL BIO-BASED VALUE CHAINS ACROSS EUROPE



- 15 end-user entities involved (companies, business support, cluster, associations) from 10 EU regions
- 5-day international B2B exchanges



PROMOTE BIO-BASED SOLUTION UPSCALING IN EU RURAL REGIONS



- integrate existing data into a single digital tool to develop solutions based on regional resources
- establish multi-actor regional platforms to remove obstacles to the full exploitation of bio-based solutions
- increase regional support to accelerate market penetration of bio-based solutions

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Many thanks for your attention!

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