

Circular BIOeconomy TRANSFORMaTion for regions by enabling resource and governance networks

Current situation

- 1 The problems with the exploitation of fossil-based and other non-renewable resources have been known for decades and linear value chains **often rely on non-renewable resources**
- 2 Long, globalised supply chains can pose feedstock risks and can have significant **environmental and societal impacts**
- 3 Rural regions are facing challenges in retaining the young generation and creating **sufficient job prospects** for them
- 4 Linear systems even though they utilise available biomass residues to a degree, valorisation is not optimal and thus, lays a **large potential for the future**
- 5 The **circular bioeconomy** is one answer to these challenges, but its potential and benefits are not fully understood by companies, policy makers, and other stakeholders.



This project aims to deliver a key milestone by showcasing how the biotransformation of value chains to value cycles can be achieved with regionally available resources based on regeneration to also minimise dependency on imported resources.

Our proposition

HOW

The BIOTRANSFORM project proposes three tools to realise the transformation:



Resource flow analysis suggesting circular bioeconomy solutions



A logistics tool to enable the optimum resource flow

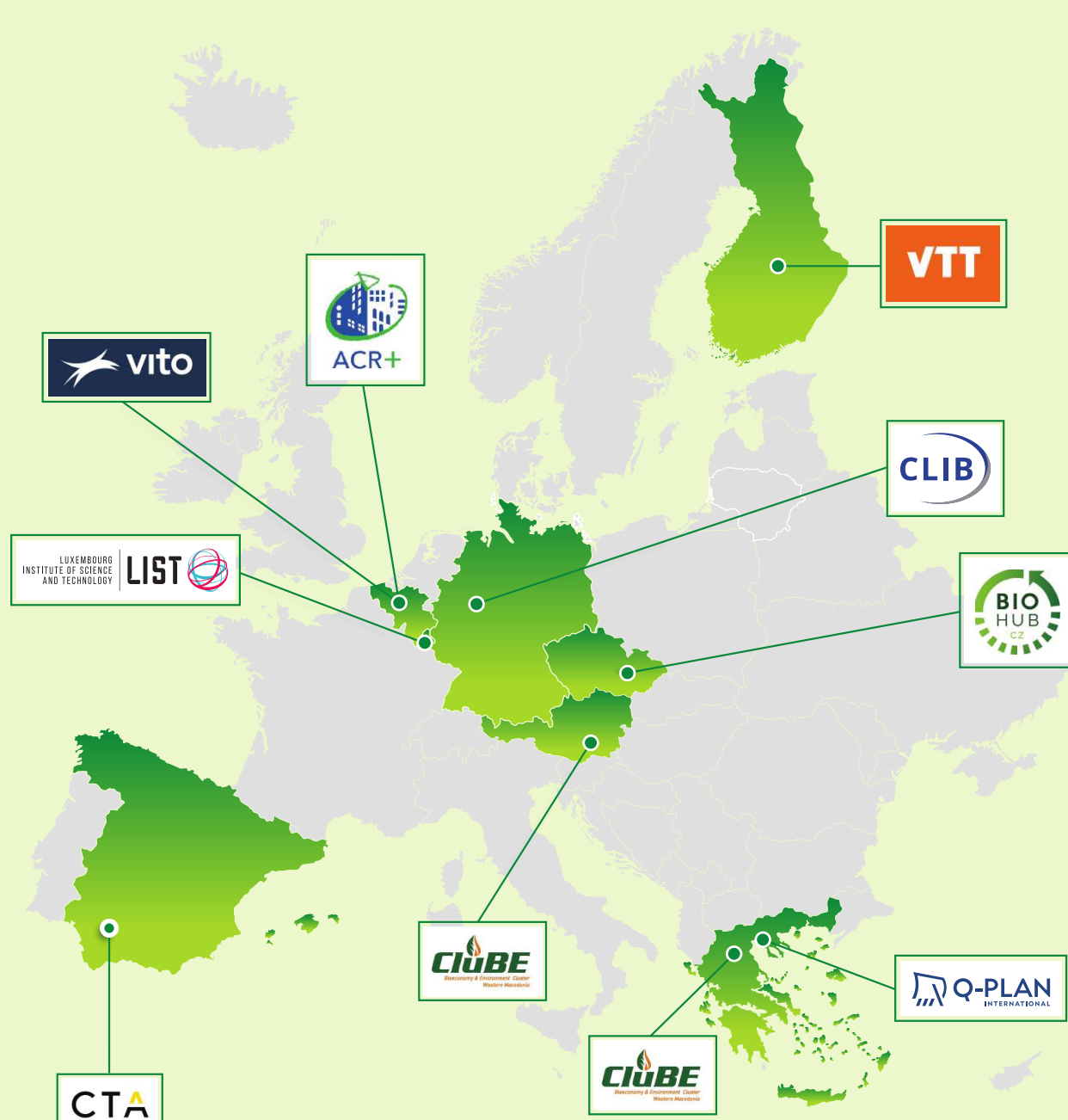


A quick impact assessment tool to evaluate the best decision possible

WHERE

CASE STUDIES

Six (6) case-study regions, representing different EU countries (Austria, Czech Republic, Finland, Germany, Greece, and Spain), were selected and are all confronted with a biotransformation challenge. These regions represent several important industries and transition scenarios for Europe such as: forestry, agri-food, lake ecosystems, lignite use, and chemicals.



What EXPECTED OUTCOMES

- Knowledge consolidation relevant to the circular bio-based transition in Europe
- An assessment tool based on the potential of pathways for the circular bio-based transition
- An innovative and holistic impact assessment tool focusing on social, economic, and environmental impacts.
- Strategies for industrial bio-based transitions relying on pathways for European regions, making use of logistic tools and increasing overall resource efficiency
- Adequate methodologies and frameworks for policymakers to support the circular bio-based transition across Europe



Who

OUR CONSORTIUM



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