



# BIOTRANSFORM

TRANSITION PATHWAYS TO CIRCULAR BIO-ECONOMY



## 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

#### 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

#### 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.



#### Who

##### OUR CONSORTIUM



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