emPOWERing regional stakeholders for realising the full potential of the European BIOeconomy

www.power4bio.eu
POWER4BIO AT A GLANCE

- Empowering EU regions for maximising the use of under-used resources
- Support regional stakeholders to take decisions in the transition to a bioeconomy era
- Develop and update regional Bioeconomy strategies in 10 regions across the EU
- Develop a catalogue of business models adapted to regional needs
ABOUT POWER4BIO

The bio-based economy is a powerfully emerging sector with huge potential, moving roughly €2 billion and providing employment for almost 22 million people across Europe. Nevertheless, there are still many European regions that do not take full advantage of their potential in yielding sustainable products instead of fossil-based resources.

POWER4BIO aims at empowering regional stakeholders to boost the transition towards bioeconomy regions in Europe by providing them with the necessary tools, instruments and guidance to develop and implement sound sustainable regional bioeconomy strategies.

All the project developments will be validated by 10 participant regions, which will make the results reliable and easy to be replicated in other European regions.

As a result of POWER4BIO, new regional bioeconomy strategies and roadmaps will be developed in five Central and Eastern European regions and already existing regional bioeconomy strategies will be reviewed in five Western and Southern European regions.

Project data

Duration: October 2018 – March 2021
Budget: € 2.9 M
Partners: 17 institutions from 11 countries
The activities in POWER4BIO are taking place in ten regions of nine countries: five regions from Western and Southern Europe with medium to very high bioeconomy maturity and five regions from Central and Eastern Europe with low to medium bioeconomy maturity. Two more instrumental elements are part of the project: raw material availability and the status of the respective bioeconomy strategies.

### Regions from Western and Southern Europe

<table>
<thead>
<tr>
<th>Region</th>
<th>Bioeconomy maturity</th>
<th>Bioeconomy maturity</th>
<th>Main feedstock available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Andalusia (ES)</td>
<td>Medium</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Bavaria (DE)</td>
<td>Very high</td>
<td>Under development</td>
<td></td>
</tr>
<tr>
<td>Central Germany (DE)</td>
<td>High</td>
<td>At national level</td>
<td></td>
</tr>
<tr>
<td>Flanders (BE)</td>
<td>Medium-low</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>11 Italian Regions (IT)</td>
<td>Medium (in average)</td>
<td>At national level</td>
<td></td>
</tr>
</tbody>
</table>

### Regions from Central and Eastern Europe

<table>
<thead>
<tr>
<th>Region</th>
<th>Bioeconomy maturity</th>
<th>Bioeconomy maturity</th>
<th>Main feedstock available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Southern Great Plain (HU)</td>
<td>Low</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Mazovia (PL)</td>
<td>Medium-low</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Nitra (SK)</td>
<td>Low</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>South Bohemia (CZ)</td>
<td>Medium-low</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Lviv (UA)</td>
<td>Low</td>
<td>No</td>
<td></td>
</tr>
</tbody>
</table>

### Main Feedstock

- Agricultural residues
- Forest residues
- Municipal waste and waste water
- Aquatic-based feedstock
- Carbon dioxide

**POWER4BIO REGIONS**

Regions from Central and Eastern Europe and their bioeconomy potential.

Regions from Western and Southern Europe and their bioeconomy potential.
POWER4BIO METHODOLOGY

POWER4BIO will develop regional bioeconomy strategies and roadmaps in Central and Eastern European regions through Regional Bioeconomy Hubs. Western regions with existing strategies will be supported to realise the full potential of their bioeconomy to overcome barriers and meet the established targets. A sound analysis of the bioeconomy potential of the participant regions will be conducted to develop a shared regional bioeconomy vision.

A set of reports and tools will be developed to facilitate the analysis and potential of the bioeconomy trend at regional level:

- **Catalogue**: The most relevant biorefineries will be identified and detailed in a catalogue of bioeconomy solutions.

- **Business models**: Business models behind the bio-based solutions will be characterized and the most relevant policy and financial instruments available to regional authorities and stakeholders identified. Existing funding opportunities will be shared to create synergies among public and private funding especially on EAFDR instruments.

- **Online guideline**: To guide European regions in the development and implementation of bioeconomy strategies and roadmaps, a standardized and flexible methodology will be defined. A selected set of key performance indicators helps evaluating regional bioeconomies and will lead to the development of the Bioregional Strategy Accelerator Toolkit (BSAT).
Within the life span of **POWER4BIO**, five main outputs will be released:

<table>
<thead>
<tr>
<th>Catalogue of mature technologies + business models</th>
<th><strong>POWER4BIO</strong> will produce a catalogue of bio-based business models to support regions identify the most adequate bio-based solutions for their region. The catalogue will focus on technologically mature solutions, particularly suitable to be deployed also small-scale in rural areas.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Regional Bioeconomy Hubs</td>
<td>Central and Eastern European regions will set up Regional Bioeconomy Hubs (RBHs) where key regional stakeholders will collaborate to develop a bioeconomy strategy of the region and its eventual implementation.</td>
</tr>
</tbody>
</table>

The project will develop new bioeconomy bridges between regions by fostering a dialogue with **POWER4BIO** stakeholders. Long-lasting and sustainable cross-regional cooperation networks will be created.

- In total, ten open cross-visits will be organized, one to each of the **POWER4BIO** regions. **POWER4BIO** partners will also provide training and education programmes for regional stakeholders.
- The **Bioregional Strategy Accelerator Toolkit (BSAT)** will support European regions to prepare and review their regional bioeconomy. It will integrate relevant bioeconomy tools and include support materials developed in **POWER4BIO**.

| New bioeconomy bridges between regions | 10 Cross-Visits and training programmes for regional stakeholders | Bioregional Strategy Accelerator Toolkit |
17 institutions from 11 countries are participating:

POWER4BIO CONSORTIUM
This project has received funding from the European Union’s Horizon 2020 research and innovation programme under grant agreement No 818351.
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