Realising the bioeconomy potential in European regions: policy and practice | Brussels, 26 May 2019

Ignacio Martín – CIRCE Foundation
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 bioeconomy strategies.
POWER4BIO regions
- 10 participant regions
- 5 regions from Western and Southern Europe with medium to very high bioeconomy maturity
- 5 regions from Central and Eastern Europe with low to medium bioeconomy maturity
# Regions from Central and Eastern Europe

<table>
<thead>
<tr>
<th>Region</th>
<th>Bioeconomy maturity</th>
<th>Bioeconomy strategy</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>

- **Agricultural residues**
- **Forest residues**
- **Municipal waste and waste water**
## Regions from Western and Southern Europe

<table>
<thead>
<tr>
<th>Region</th>
<th>Bioeconomy maturity</th>
<th>Bioeconomy strategy</th>
<th>Main feedstock available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Andalusia (ES)</td>
<td>Medium</td>
<td>Yes</td>
<td><img src="image" alt="Agricultural residues" /> <img src="image" alt="Forest residues" /> <img src="image" alt="CO2" /></td>
</tr>
<tr>
<td>Bavaria (DE)</td>
<td>Very high</td>
<td>Under development</td>
<td><img src="image" alt="Agricultural residues" /> <img src="image" alt="Forest residues" /> <img src="image" alt="CO2" /></td>
</tr>
<tr>
<td>Central Germany (DE)</td>
<td>High</td>
<td>At national level</td>
<td><img src="image" alt="Agricultural residues" /> <img src="image" alt="Forest residues" /> <img src="image" alt="Municipal waste and waste water" /> <img src="image" alt="Aquatic-based feedstock" /></td>
</tr>
<tr>
<td>Flanders (BE)</td>
<td>Very high</td>
<td>Yes</td>
<td><img src="image" alt="Agricultural residues" /> <img src="image" alt="Forest residues" /> <img src="image" alt="CO2" /></td>
</tr>
<tr>
<td>11 Italian regions (IT)</td>
<td>Medium (in average)</td>
<td>At national level</td>
<td><img src="image" alt="Agricultural residues" /> <img src="image" alt="Forest residues" /> <img src="image" alt="CO2" /></td>
</tr>
</tbody>
</table>
Main objectives and activities

01 STAKEHOLDERS ENGAGEMENT
- Creation and launch of the Regional Bioeconomy Hubs (RBH)

Step 1.1 Organizational set-up
Step 1.2 Vision development
Stakeholder characterization
Contact and engagement

Step 1.3 Existing policies (RIS3, CAP)

02 ANALYSIS OF THE REGION’S BIOECONOMY POTENTIAL
- Main aspects of bioeconomy

Bioeconomy analytical tools:
- SAT
- S2BIOM tool
- BERST tool
...

03 REGIONAL BIOECONOMY STRATEGY AND ROADMAP
- Strategy
- Roadmap

Catalogue of biobased solutions
Portfolio of instruments
• Rural development and tourist attractiveness
• Improvement of infrastructures
• Boosting the industrial development
• Innovative thinking at enterprise level
• Enhancing resource effectiveness for existing enterprises

LVIV

Value optimization by shifting to cascading type valorization of biomass resources
Communication between R&D and business sectors
Awareness raising for the multiple options and pillars in bioeconomy
Interest in cosmetics production
Logistic improvement and biomass availability
Governmental support

SOUTHERN GREAT PLAINS

Increasing of unproductive roles of agriculture as biomass production
Support of processing biological degradable materials
Development of application of biotechnological research
Tertiary education and lifelong learning
Technical infrastructure improvement

SOUTH BOHEMIA

NITRA

Improvement of processing of primary products for food with added value
Innovative methods of harvested production and processing of biomass
Industry engagement and attracting citizen interest
Identification of the potential applications for the selected feedstock

Mazovia

• Ensuring a diversified supply of energy and sustainable use of natural resources.
• Development of export-oriented production in the fields of medium and high-tech technology and the agri-food sector.
• Developing more bioapplications besides bioenergy: biotechnology, biomedicine, etc.
Bioeconomy Strategy Tool Accelerator

- Support analysis of the bioeconomy potential of regions
- Guide the users through all developments of the Power4Bio project results
- Adapt the display of information as a function of the profile of the user
- Forster cooperation with neighbour regions
Expected impacts and results
Detected Problems

Need of increasing capacity of regional/local policy makers and stakeholders to structure their bioeconomy

Lacking of adequate knowledge, best practice exchange and networking within and among regions

Need of improving the capacity of policy makers and stakeholders to make informed decisions, based on a thorough knowledge.

Need of ambitious regional strategies and roadmaps which lead to regional bio-based sectors: sustainable, inclusive and adapted to local assets and conditions

Need of enhancing research and innovation capacities, and appropriate transfer of research results to regional/local stakeholders.

POWERBIO Solutions

Catalogue of high TRL technologies + Best practices

10 cross-visits

Inventory of most important existing tools

Bioregional Strategy Accelerator toolkit

Training programes for regional stakeholders
Thank you for your attention!

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