DANUBIONET

Building a bioeconomy research and advocacy network in the Danube Region

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TRIPLE-HELIX CONFERENCE ON BIO-BASED ECONOMY
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Background

The Danube-INCO.NET project addresses – inter alia – sustainable energy and the development of bioeconomy in the Danube Region. WP3 “Energy Efficiency and Renewable Energy in a Bio-based Economy” aims at fostering networking and transnational cooperation including two pilot activities too.

The main scope of Pilot Activities is to support additional transnational cooperation across the Danube Region while addressing the main objectives of WP3:

- Assess and improve the potential of the Danube Region for R&I applied to sustainable energy and bio-economy
- Identify existing gaps and opportunities to overcome them by strengthening the links between the actors in R&I
- Facilitate clustering and exploit cross-border synergies
- Elaborate recommendations for strengthening R&I cooperation in the Danube Region
Interventions needed to support the bioeconomy transition:

- What is the current condition of innovation within the bioeconomy?
- What are the key factors influencing success/failure?
- What are the strengths and weaknesses?
- What are regional differences?
- Are there exemplars of best practice?
- Where will business innovation have the greatest impact on climate change mitigation/adaptation and economic growth?

Partners from the UK, France, Spain, Germany, Italy and Hungary – main focus on these countries.

Tool: Maximum difference scaling (MaxDiff) where survey respondents are shown a set of the possible items and are asked to indicate the best and worst items.

Between May – November 2014, Biohorizons survey was viewed over 1130 times worldwide and received nearly 500 credible responses. However, surprising low amount of answers from the Danube Region....
The Challenge

How to transform an entire supply chain? Or create a new?
System level challenge, many stakeholders, interdependent relations, competing interests…what else?

General framework: Political, Economic, Socio-Cultural and Technological factors (PEST analysis)
Pilot action: objectives

In order to help stakeholders in the Danube Region to overcome this challenge the pilot action has double objectives:

1. Map stakeholders and define their position in the supply chain
2. Facilitate cooperation and generation of new projects

In line with this the tasks are:

- Preparation and online promotion of the mapping questionnaire for the Danube Region. The target group is along the Triple Helix. The survey will facilitate matchmaking too by inquiring challenges and offers.
- Generation of new cooperation: by using open innovation approach to recruit solutions to real industry challenges and organizing two events for them.
Expected outcomes of this activity by November 2016:

1. survey stakeholders’ knowledge, wished interventions and challenges about bioenergy and bioeconomy;
2. increase stakeholders’ knowledge and their capacity to (co-)develop bioeconomy activities through the facilitated networking;
3. enhance capacities by promoting co-operation between universities, research institutions and industry via open innovation;
4. mobilize the stakeholders of sustainable non-food biomass supply chains through the consolidation of informal networks and challenge oriented approach.
Mapping questionnaire online since April 2016 with the following sections:

1. Section I - Capacity mapping: to define activities and place in the biomass value chain
2. Section II – Networking and open innovation: to see bottlenecks, offers and solutions;
3. Section III - The Danube Region: to understand the views of different stakeholders on the Danube Region with regards to the bioeconomy;
4. Section IV – Identification of wished interventions: based on the Climate-KIC Biohorizons and the Technological Innovation System methodology
As of 17 July, 2016 the survey has received 55 answers – still expecting more, hence no final conclusions and thorough analysis are presented here.

Q2. Please select the country of your organisation!

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<th>Count</th>
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Q1. Please indicate the type of your organisation!
What are the main opportunities for the Danube Region to become competitive in the European bioeconomy? Please tick all that apply.

- Skilled workforce
- Research infrastructure
- Policy framework
- Market demand for advanced bio-based products
- Industrial interest
- Geographical location
- Financing possibilities
- Cooperation networks
- Biomass potential
What is missing from the Danube Region to become competitive in the European bioeconomy? Please tick all that apply

- Skilled workforce
- Research infrastructure
- Policy framework
- Market demand for advanced bio-based products
- Industrial interest
- Geographical location
- Financing possibilities
- Cooperation networks
- Biomass potential
“Open innovation is the use of purposive inflows and outflows of knowledge to accelerate internal innovation, and expand the markets for external use of innovation, respectively. [This paradigm] assumes that firms can and should use external ideas as well as internal ideas, and internal and external paths to market, as they look to advance their technology.”

Open innovation events:

1. Side event of the ERDN conference in Budapest organized by AKI, challenge owner is DOW Agrosciences.

2. Separate event in Timisoara together with local stakeholder, challenge owner is the Hungarian Biogas Association;

Details are under negotiations – challenges go public soon!
Thank you

Please fill and spread the survey: we have flyers and customisable invitation letter!

http://bit.do/DANUBIONET

Thank you for your attention.

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Climate-KIC: The future landscapes of Bioeconomy: Hungary

1. Aims of the study were:
2. to deliver general overview on the bioeconomy
3. to introduce the relevant Hungarian stakeholders
4. to map the potentials for further collaboration with special regards to Climate KIC projects
5. to provide on-hand experiences of stakeholders on the barriers and potential
6. Methodology: extensive literature/web search and online interviews

Study is available at: http://klimainnovacio.hu/hu/hirek/2016/06/29/the-future-landscapes-of-bioeconomy-hungary