

ADVANCING THE CREATION OF REGIONAL BIOECONOMY CLUSTERS IN EUROPE

BIOEAST Initiative: a macro-regional vision for helping the bioeconomy clusters building

Barna Kovacs PhD BIOEAST Secretary General Brussels, 14 March 2019



BIOEAST Initiative

Central-Eastern European Initiative for Knowledge-based Agriculture, Forestry and Aquaculture in the Bioeconomy

Shared strategic research and innovation framework for working towards the development of sustainable bioeconomies in Central and Eastern Europe (CEE).

Why BIOEAST: Low performance of knowledge-based agriculture, aquaculture and forestry in the bioeconomy, significant internal disparities in terms of research and innovation performance, and low participation of CEE region in H2020.

Focus of BIOEAST



The pushing factors (outside) are calling for: strategic thinking at national level

- 1. To solve "food first" issues
- 2. To ensure sustainable yields
- 3. To have cascading approach for biomass use
- 4. To secure circularity
- 5. To sustain the diversity of production systems



The (internal) national level factors not necessary pushing for complex strategic thinking

- 1. Lack of societal understanding and participation in addressing challenges
- 2. Traditional knowledge transfer process
- 3. Sector based, parallel processes (ex. Agriculture, food sector)
- 4. Often missing evidence based policy-making
- 5. Market driven economy (mostly profit driven, some times technology driven, but less on strategic governance)
- 6. Missing macro-regional approach for the sustainability (economic, environmental, societal)

OBJECTIVES of the macroregional BIOEAST Initiative:

- 1. Initiate cooperation: establish a multi-stakeholder network to facilitate joint actions;
- 2. Provide an evidence base: establish data-driven support for implementation of policies;
- 3. Support strategies: create the cross-sectorial approach for the development of a national circular and bioeconomy strategies;
- 4. Focus on research: map specific challenges for a Strategic Research and Innovation Agenda;
- 5. Improve skills: train a new generation of dedicated multi-stakeholder actors;
- 6. Develop synergies: promote regional, national, EU and international funding opportunities;
- 7. Increase visibility: draw attention to specific challenges of the CEE regions.



Three political agreements of the Agri Ministers

26. October 2016: VISEGRAD 4 Group + 3 Countries: on stronger inclusion into H2020

21. September 2017: VISEGRAD 4 Group + 4 Countries: on broadening the remit of the BIOEAST initiative beyond HORIZON 2020

13. June 2018: VISEGRAD 4 Group + 7 countries (V4: Czech Republic, Hungary, Poland, Slovakia and Bulgaria, Croatia, Estonia, Latvia, Lithuania, Romania, Slovenia): on the Vision for BIOEAST







COMMON SHEEL-ALLEDON OF THE MANUFACTURE OF HERMANICS AND ALLED AND ALL

But the designs included the country projects being the function and function frameworks. It is constituted bein the traphene advantage on the projects within the function. Bit is the field of agree allows including the Tenantage of Tenant

the excitoring participation principle of the power programming potent has not been required to the \$5.1.5 construction across for the files. For of the later teniges upon while the Bernion Hill or

The Minister of Aprillation of the Vinage of Chings of Chings. December of the com-APPELLATE, as offset, automits to the Bengues Estimation. There is NUMBER DESCRIPTION of the property of the China o

\$50,000 to those or may make a section \$1.11 mayor property a part of the secconfliction and exhaust \$10.00 maybes there hape and production for their percepts of and confliction or extraction fractions.

confluencia estructa circulati.

CROSSESSI fich propri in final effective committe in mount in entropy to committe of the respective and proprieti of the University and Seaton Energy to contribute to contribute and Seaton Seaton Energy to the Contribute and Seaton Sea

Acts by speciate just property contrains. The segment from the first action of the action of the formation of the linear feet of the acts of the first acts of the first acts of the first of the acts of the acts

the control provided of all Machine condition in the placement of facilities the cought Français Français (Spin-1998).

C.S.L. C.W. Ste. Transpase. Communities on providing anticomeris, solutions, differentiated in participation of the SEC11 constraint in the Section 2019 Françaisment later date, but

considering the marks and possibilities of the \$1.1.1 constrain, related in the and notice quarties of the ages from transmission contracts area of the \$1.11 const August another layers or reporting records using their process of the next

Angers make higher an agreeing manual maps from more of the same of the (III) — regarding the intercongramal origination unities, any the WO-SAT histories.

silenting fractive for one continuous.

minuting materia and introducts action, conclusion and appear action only programs intends only in facility in our programs intends to the ISLO standards to the role or increase that activity in our

and flavorous; of the Economic States and STRA against a facilities between its strengthening the official Research of the Economic STR segmented in States and the end step (segmented) programmed between of transparent

PRINTED to introduce also the Wash Programme (III Schildt under the Station 2018 to Calching) of the animal deviating demands of the stage is count to introduce the original and confidence and the count proteins of the Control and Control Company constraints. Into proposals of the signic producted the last internalization to the Montrol proteins come: I state the stage of the count and Station Company or control the stage of the stage of





Intervention logic of the BIOEAST Vision

Challenges What is hindering?	Scope Where to focus?	Goal What is the aim?	Level Where to act?	Objectives How to overcome?	Actions What to do?
C1. Research and Innovation deadlock C2. Stalemate in the bio-based value chains C3. Governance impasse C4. Societal indifference C5. Financial barriers	S1. Strategic thinking in bioeconomy S 2. Quality Food and Feed for Europe and for the World S 3. Industrial boost for rural areas	G1. Productivity: Sustainable increase of biomass production; G2. Sustainability: Developing biodiversity and biosecurity; G3. Resource efficiency: Circular and value-added use of the available biomass; G 2.2. Rural development: Increasing the viability and attractiveness of rural areas and society	Macro- regional	O 1. To develop strategies; O 2. To cooperate and develop evidence-based policies; O 3. To identify common challenges and validate common research areas; O 4. To provide an evidence base; O 5. To improve skills; O 6. To develop synergies; O 7. To increase visibility;	Further develop specific objectives Develop BIOEAST SRIA Start to implement the action plan of BIOEAST SRIA based on the objectives

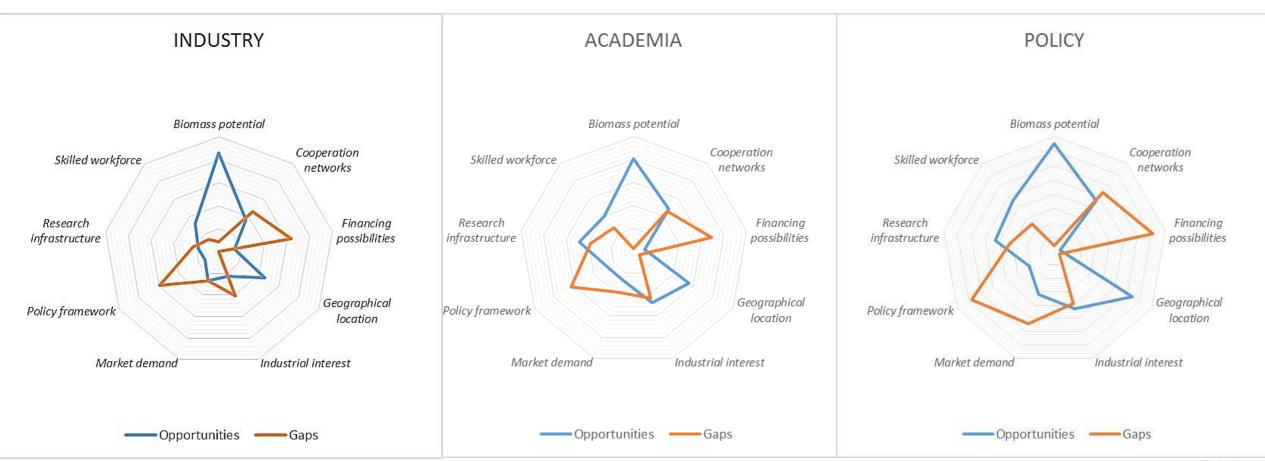


Next Steps

- 1. 8. November 2018 BIOEAST conference: http://bioeast.eu/article/bioeast-bioeconomy-in-the-forefront-of-national-policies-conference
 - 3 Studies: available containing data and state of play of CEE bioeconomies
- 2. 8–10 May 2019: Visegrad 4 Group + 7 Agricultural Ministers Meeting on in Stará Lesná (High Tatras, Slovakia)
- 3. BIOEAST CSA under preparation (call in HORIZON 2020 WP2019)
 - 3. Guidance on National Bioeconomy Strategy Development
 - 4. Macro-regional Strategic Research and Innovation Agenda (SRIA)
- 3. Establishing National BIOEAST HUBs for the stakeholders engagement at national level
- 4. Five Thematic Working Groups for SRIA development at macro regional level:
 - Forestry
 - Sustainable yields and agro-ecological intensification
 - Bioenergy and biomaterials
 - Fresh water bioeconomy
 - Food Systems



Opportunities versus gaps by stakeholders







Conclusions from SCAR/BIOEAST study (2018), available www.bioeast.eu



Overall conclusions, needs and challenges



- 1) Increase productivity in agriculture,
- 2) Increase recovery rates of bio-based wastes
- 3) Identify regional strengths in types of biomasses,
- 4) Produce valued-added industrial products from biomass in the region instead of exporting raw materials,
- 5) Start thinking in bioeconomy clusters where regional feedstock supply, existing industrial infrastructure, know-how and innovation potential and public support are combined.



nova-Institute – 20 – www.bio-based.eu

Characteristics of clusters in the BIOEAST countries

1. The already existing:

- Food/feed
- Energy/fuel

2. The potential:

The bio-based products for material uses

GAP: lack of awareness of the potential value chains. To show the large number of possible value chains which could serve as a starting point for defining the scope of regional bioeconomy clusters.



Potential role of Clusters: innovative networks

- 1. National level cluster on bioeconomy: few examples Sweden, Italy with strong political commitment
- 2. Regional/local level clusters: with strong entrepreneurial commitment

GAP: lack of political commitment, administrative capacity, personal skills



Questions:

What would be the benefit?

Bottom-up or/and top-down initiative?

What form of political commitment? (strategy and

action plan)

Who will initiate the network?

Sector based cluster (wood)?

Inter-sectorial (bioeconomy)?





Thank you for your attention!

www.bioeast.eu

Barna Kovacs PhD

Secretary General

barna.kovacs@mfa.gov.hu

