



# BIOEASTsUP Webinar 3: Indicators and statistical evidence for bioeconomy development

05.06.2020

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BIOEASTsUP has received funding from the European Union's Horizon 2020 Programme for Research and innovation under grant agreement No 862699.



support the BIOEAST initiative in the implementation of its Vision for 2030 and Action Plan for transition of 11 Central and Eastern European (CEE) to bioeconomy.

- engaging the relevant stakeholders,
- accenting sustainable circular bioeconomy on the CEE governments' agenda improving macro-regional cooperation formats with downstream and upstream linkages of agri-food sector, and
- supporting national bioeconomy strategies development.

The project will advance the BIOEAST initiative to become a catalyst for a research and innovation, rural development and other policies towards bioeconomy development in the CEE by creation of favourable intersectoral framework for sustainable deployment of biomass potential.



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Date: 05.06.2020

Duration: 10:00-11:30 CET

**Introduction and setting the scene** *Markus Lier, Luke*

**BIOEAST countries as part of a stronger transnational European cooperation** *Barna Kovács, BIOEAST secretariat*

**Mentimeter questions** *Markus Lier, Luke*

**Evidence based bioeconomy policy – case Croatia** *Biljana Kulišić, EIHP*

**Bioeconomy objective setting and identification of bioeconomy monitoring indicators** *Markus Lier, Luke*

**Q&A session**

**Where to go from here in the BAIMGs?** *Jerzy Kozyra, State Research Institute in Puławy*

**Closing**

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## Speakers in BIOEASTsUP webinar 3, 5.6.2020

**Jerzy KOZYRA** is a research scientist at the Institute of Soil Science and Plant Cultivation – State Research Institute in Puławy (Poland), Department of Bioeconomy and Systems Analysis. His research focuses on agricultural adaptation, mitigation of climate change and decision support systems in agriculture.

**Barna KOVACS** is currently working as counsellor at the Permanent Representation of Hungary to the EU. He has been appointed as the Secretary-General of the BIOEAST Initiative. Between 2009-2017 he worked as scientific and policy officer in the European Commission.

**Biljana KULIŠIĆ** is a senior biomass researcher at the Energy Institute Hrvoje Pozar (EIHP), Department for RES, EE and Environmental Protection. She is engaged in evidence-based bioeconomy development with a focus in bioenergy within the bioeconomy.

**Markus LIER** is a research scientist at the Natural Resources Institute Finland (Luke), Unit Bioeconomy and Environment, Research Group Natural Resource Planning. He focuses in his work e.g. on bioeconomy monitoring and reporting.

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- Webinar is being recorded.
- **Please disable your video during the presentations. You may enable it again before you speak.**
- **Please, mute your microphone. You may enable it again before you speak.**
- **Should you wish to intervene: please, write your question in the chat box.**

Have a nice webinar!



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## Setting the scene

[Markus Lier](#)

Natural Resources Institute Finland (Luke)  
Unit Bioeconomy and Environment, [markus.lier@luke.fi](mailto:markus.lier@luke.fi)

[Biljana Kulišić](#)

Energy Institute Hrvoje Pozar (EIHP)  
Dept. RES, EE and Environmental Protection, Croatia, [bkulistic@eihp.hr](mailto:bkulistic@eihp.hr)



[Information](#) ▾

Year  
2015 ▾

Country  
11 of 28 ▾

NACE  
Select ▾

Indicator  
Value added ▾

Number of people employed in the bioeconomy

7.39M

Value added of the bioeconomy (Billion €)

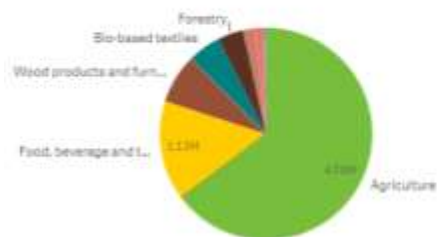
€75

Value added per person employed in the bioeconomy

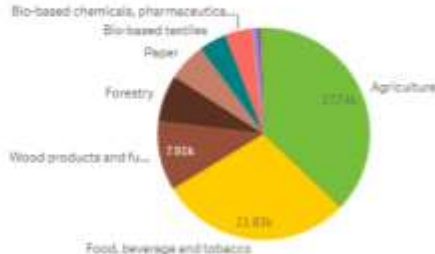
10 k€ • 34 k  
EU28



Employment in the bioeconomy by sectors in selected countries (2015)  
(number of people employed)



Value added in the bioeconomy by sectors in selected countries (2015)  
(billion €)



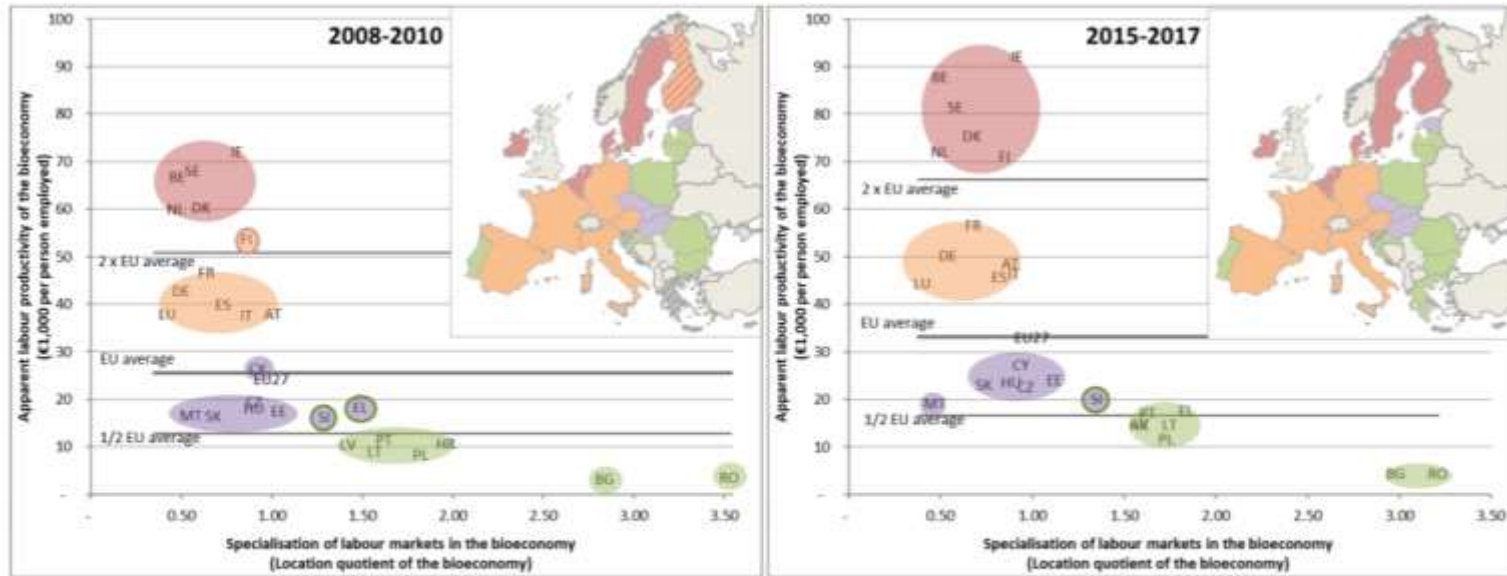
# Jobs and Wealth in BIOEAST

NACE Sectors: Agriculture, Forestry, Fishing and Aquaculture, Food, beverages and tobacco, Bio-based textiles, Wood and wooden furniture, Paper and paper products, Bio-based chemicals, pharmaceuticals, plastics and rubber, Production of bio-electricity

Source [1]



# Bioeconomy patterns in BIOEAST



**Figure 1.** Bioeconomy patterns across EU-27 Member States in 2008–2010 (left) and 2015–2017 (right). Note: The 27 EU Member States are referred to by their two-letter code: Austria (AT), Belgium (BE), Bulgaria (BG), Croatia (HR), Cyprus (CY), Czech Republic (CZ), Denmark (DK), Estonia (EE), Finland (FI), France (FR), Germany (DE), Greece (EL), Hungary (HU), Ireland (IE), Italy (IT), Latvia (LV), Lithuania (LT), Luxembourg (LU), Malta (MT), Netherlands (NL), Poland (PL), Portugal (PT), Romania (RO), Slovakia (SK), Slovenia (SI), Spain (ES), and Sweden (SE).

Source [2]

# Bioeconomy patterns in BIOEAST

- “Need for inter-ministerial dialogue and dialogue with main stakeholders from the value chains on the national levels and bringing the national bioeconomy strategies on the national political agendas.”
- “The lack of participation of the public administration (decision making level), and information flow within, in EU wide research and innovation networks, is a key hindering factor in the trans-sectorial strategy building. There is a need to institutionalize and support this structure of experts, behind the BIOEAST Initiative, which can give long term perspective for the for the macro-region.”
- “Lack of analyses on the current situation of the bioeconomy and its related sectors in the BIOEAST countries, no information on suitable indicators for progress monitoring in the BIOEAST countries available, no information on existing national statistical gaps and shortcomings, all affecting the development of national bioeconomy strategies, highly insufficient information on the research and innovation gaps in the BIOEAST countries.”
- “Bioeconomy strategies based on macro –regional cooperation: bioeconomy strategies based on macroregional cooperation and solidarity are needed to boost the underutilized potential of the region in a sustainable way. Establish framework for stronger transnational European cooperation.”

Source [3]

# The why?



Source [4]

## The European Green Deal Call



### Farm-to-Fork

Full title : *"From farm to fork: testing and demonstrating high impact innovations to address food system challenges in a place-based context."*

An Innovation Action (IA), that calls for demonstration projects to test, pilot and showcase place-based, innovative system solutions to **4 pressing food systems' challenges**, and resulting in **4 targeted impacts**:

- 1) (a) achieving climate neutral farms, and/or b) achieving climate neutral food businesses;
- 2) reduction of pesticides, antimicrobials, fertilizers and harmful nutrients, towards zero pollution
- 3) reduction of food loss and waste
- 4) shifting to sustainable and healthy diets, sourced from land and sea.

as of 2014, MS comments not included

Source [5]

## Sources



[1] Jobs and Wealth in the European Union Bioeconomy

<https://datam.jrc.ec.europa.eu/datam/mashup/BIOECONOMICS/index.html>

[2] Ronzon, T.; Piotrowski, S.; Tamosiunas, S.; Dammer, L.; Carus, M.; M'Barek, R. Developments of Economic Growth and Employment in Bioeconomy Sectors across the EU. Sustainability 2020, 12, 4507.

[3] Source: H2020 CSA BIOEASTsUP Consortium Agreement 86269. BIOEASTsUP has received funding from the European Union's Horizon 2020 Programme for Research and innovation under grant agreement No 862699.

[4] COMMUNICATION FROM THE COMMISSION The European Green Deal <https://eur-lex.europa.eu/legal-content/EN/TXT/HTML/?uri=CELEX:52019DC0640&from=EN>

[5] The European Green Deal. Green Deal calls.

[https://ec.europa.eu/info/sites/info/files/research\\_and\\_innovation/green\\_deal/200506\\_gdc\\_brief\\_slides\\_6-1\\_farm\\_to\\_fork.pdf](https://ec.europa.eu/info/sites/info/files/research_and_innovation/green_deal/200506_gdc_brief_slides_6-1_farm_to_fork.pdf)