

# Overview of state of play on bioeconomy in Hungary



Aniko Juhasz

Deputy State Secretary, Ministry of Agriculture

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# What are the responsible public bodies and relevant stakeholders?

<b>Ministry of Agriculture</b>	Initiator on bioeconomy, BIOEAST
<b>National RDI Office</b>	H2020 NCPs – research topics for Horizon
<b>Ministry of Innovation and Technology</b>	Cooperation started in the frame of BIOEAST. Joint declaration being prepared to be signed by agri and research ministers.
<b>Ministry of Human Capacities</b>	Education. No cooperation yet on bioeconomy.
<b>Ministry of Interior</b>	Water. No cooperation yet on bioeconomy.
<b>Ministry of Finance + Prime Ministers Office</b>	No cooperation yet on bioeconomy.

# What are the responsible public bodies and relevant stakeholders?

<b>National Agricultural Research and Innovation Center</b>	Umbrella institution of HuMA. 13 research institutes. <b>Research Institute of Agricultural Economics (AKI)</b> : First supporter of BIOEAST. Power4bio project.
<b>Hungarian Academy of Sciences</b>	highlighting: Research Institute on Soil (TAKI) / EJP Soil
<b>Bay Zoltán Nonprofit Ltd. for Applied Research (BZN)</b>	Institute of Ministry of Innovation and Technology. Power4bio project. National cluster building
<b>Chamber of Agriculture</b>	RDI working group, rural advisory system, national cluster building
<b>Universities</b>	
<b>Other institutes (e.g. OMKI)</b>	

# What is currently available for a bioeconomy strategy ?

## Already existing official elements

HuMA: Department for Knowledge-based Agriculture

RDI Working Group (Chamber of Agri/HuMA)

Improved participation in SCAR WGs / FACCE JPI / ERA-NETs

Conferences and workshops organised in Hungary 2015-2019 (Latest 2018 November: BIOEAST international conference in Budapest)

2019 February: Workshop and training organised for researchers by HuMA

Websites (BIOEAST and EIP-Agri) and booklets prepared on bioeconomy

Power4bio (AKI, Bay-bio) + BIOEASTsUP projects (HuMA, AKI)

BIOEAST Governing Board / Secretary/ National Contact Point

Joint declarations of V4 + 7 agri ministers BIOEAST 3– 2016, 2017, 2018

BIOEAST Studies (AKI, JRC, Nova/SCAR CASA)

# What is currently available for a bioeconomy strategy ?

## Planned elements for the near future (2019-2020)

Inter-ministerial official working group

Creating thematic working groups at national and BIOEAST level

Establishing national Bioeconomy Hub

Establishing Bioeconomy cluster (BZN)

National Council for Agricultural Research and Innovation (NAKIT)

Identification of financing forms of bioeconomy activities

Organising H2020 workshop for researchers

Joint declaration of agri and research ministers of BIOEAST countries

# What are the main biomass sources?

## Forestry

- 2 million ha → 13 million m<sup>3</sup> of wood produced /year → 10,5 million m<sup>3</sup> (about 7,5 million t) can be harvested in a sustainable way
- 7 million m<sup>3</sup> (about 5.3 million t) was logged yearly in the last decade and about 50 % of this amount was used for energy generation. Every year about 300-400 thousand tonnes of logging waste remains in the forest because it cannot be collected using the common technologies.
- Every year about 700 000 m<sup>3</sup> (525 000 t) of wood by-products (waste wood, wood chips) are generated in the wood processing plants.

## Agricultural by-products

- Provide the next highest amount of biomass.
- 8-10 million tonnes of maize stover is produced annually and 2.5-3.0 million tonnes could be utilised as biomass for energy production which is already covered by processing plants
- More than 20 million t of by-products and waste is produced, significant amount could be used for energy production.
- Every year 4-4.5 million tonnes of straw is produced from the cultivation of grain cereals and of this about 2.4-2.8 million tonnes can be used for energy production in a sustainable manner which is already covered by processing plants

Thank you for your attention

