

# Overview of state of play on bioeconomy in Hungary



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

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

Improved | Inter-ministerial official working group

Conferenc | Creating thematic working groups at national and BIOEAST level

November | Establishing national Bioeconomy Hub

2019 Febru | Establishing Bioeconomy cluster (BZN)

Websites ( | National Council for Agricultural Research and Innovation (NAKIT)

Power4bio

BIOEAST G | Identification of financing forms of bioeconomy activities

Joint decla | Organising H2020 workshop for researchers

BIOEAST St | 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

# SHORT AND LONG TERM POLICY SUPPORT NEEDS

d	Process related support	Technical assistance support	Strategy drafting support
<b>Building Block 1:</b> Describe the bioeconomy concept at national level	<ul style="list-style-type: none"> <li>• <b>Facilitator:</b> guiding the different ministries.</li> <li>• Incentive to support <b>horizontal cooperation</b></li> <li>• Public awareness on bioeconomy (different target groups)</li> </ul>	<ul style="list-style-type: none"> <li>• Development of <b>database</b> about state of bioeconomy (biomass availability, indicators)</li> <li>• More EU communication</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Common simple understanding of the concept of bioeconomy</b></li> <li>• <b>More training/explaining</b></li> </ul>
<b>Building Block 2:</b> Assess current state of bioeconomy and ambition within the EU Strategy	<ul style="list-style-type: none"> <li>• <b>Alignment of policies</b> (how?)</li> </ul>	<ul style="list-style-type: none"> <li>• <b>EU support for national bioeconomy studies / expert studies</b></li> <li>• Biomass <b>data evaluation, analysis</b> of potential value chains (impact (environmental, economic, social) /benefits/implications of bioeconomy)</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Collecting bottom-up feedback</b> (industry, research, farmers)</li> </ul>
<b>Building Block 3:</b> Define bioeconomy measures, platforms and initiatives to achieve targets	<ul style="list-style-type: none"> <li>• <b>Building capacity (within the ministry)</b></li> <li>• <b>Development of clusters/networks/HUB (mentoring best practices, mentoring of innovative start-up enterprises)</b></li> </ul>	<ul style="list-style-type: none"> <li>• <b>Pilot cases</b> (collection and analysis)</li> <li>• <b>Financing</b> bioeconomy projects</li> <li>• Database of funding sources for bioeconomy</li> <li>• Educating farmers advisors</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Workshop on integration of bioeconomy in CAP.</b></li> <li>• SCAR WGs mirror at the level of the member states (+ intersectoral collaboration)</li> </ul>
<b>Building Block 4:</b> Leverage on the national and EU policies for sustainable bioeconomy	High level forum (EU/national for decision makers) Strategy development methodology (workshop for policy)		





# Actions to advance the development of the bioeconomy strategy

- Sharing good examples with WE MSs: as bioeconomy is a horizontal theme, useful to find out how other WE MSs have developed **inter-ministerial co-operation** and how they have modified or changed their policies/regulations to promote bioeconomy (processes).
- Target group: **decision-makers** (not „only“ admin.)
- Most relevant topics, sharing good examples of:
  - a) **financing mechanism** in other (more developed) MSs, national policy and legislative / regulatory forms, **aligning policies**.
  - b) **cluster building**, and
  - c) what practices exist to support the **incubation processes** of early stage bioeconomy projects.
  - d) Motivation of farmers in getting involved in more high added value value-chains (raising awareness and incentives).
- Methodology needed to show economic benefits of implementing the bioeconomy
- Good examples of business cases



Thank you for your attention

