

BIOECONOMY CONCEPT PAPER

HUNGARY



Mission

The concept paper has a triple goal. To bring current challenges on natural resources and primary production sectors (agriculture, forestry and aquaculture) into public consciousness. It also aims at creating a platform for long-term, cross-sectoral dialogue among stakeholders on the future of biomass related sectors, and on the necessity of paradigm shift in economic thinking in order to cope with climate change. Finally to set the framework for a national bioeconomy strategy and action plan development.



Strengths in bioeconomy

- Biomass potential in agriculture and forest area, untapped potential in bio-waste and freshwater (blue bioeconomy).
- Strong skills in engineering which could be used for strengthening the biorefinery potential.
- Responsibility and commitment of younger generations towards sustainability issues.



Opportunities foreseen in bioeconomy

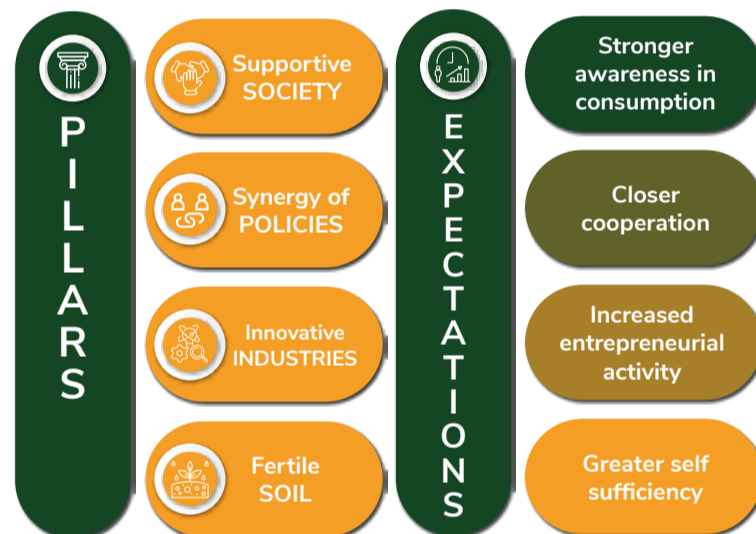
- Growing interest for bio-waste utilisation.
- Cooperation between circular economy and bioeconomy.
- Potential for businesses for value-added cascading use of available biomass.



Strategic directions

- **Supporting the small scale, new generations of biorefineries.** To develop a biorefinery action plan with the involvement of relevant stakeholders and by applying fact-based approach to map and monitor (the sustainable) biomass availability, to optimize biomass production and use, to create value-added products, to support local markets while maintaining biodiversity and preserving the environment, and to find the role of biomass in energy mix.
- **Firmament of safe food system and supporting healthy diet.** To raise awareness to make the healthy way of life more popular. By supporting new business models and innovative start-ups added value can be made from biological waste. Supporting biodiversity, crop diversification, drought damage relief, prevention programmes also support the firmament of safe food system. Digitalization may increase the efficiency in food industry.
 - **Preservation and strengthening of biomass production potential with special attention to soil, biodiversity and forests.** ① To focus on forests

LOGIC OF BIOECONOMY INTERVENTION



and added value creation: Creating new and updating existing research infrastructures, increasing the human resources in number of researchers and skilled workers are essential for value added creation. It is also very important to promote by public tools the use of wood as a durable structural material in order to replace more energy-intensive building materials. ② To focus on soil and biodiversity: Increasing the amount of organic matter returned to the soils by at least 30% during the period of 2021-2030. There is a need to develop and maintain large experimental research infrastructures, as well. To pay more attention to awareness raising in order to keep our soil healthy.

- **Permanent storage of captured carbon, combined with other uses:** To initiate a debate about the carbon capture utilization storage technologies with the relevant stakeholders and build a concept paper on the topic.
- **Specific program on bioeconomy related research and innovation:** To develop a national bioeconomy strategic research and innovation agenda and to put forward yearly research and innovation actions calls on specific topics.



Endorsement

The BIOEAST Initiative aims to build knowledge-based agriculture, forestry and aquaculture in the bioeconomy. For this reason, the BIOEASTsUP Horizon 2020 EU project was launched under the auspice of the macro-regional governmental initiative to support eleven countries in building up their own bioeconomy strategies and action plans.