



REPUBLIC OF ESTONIA  
MINISTRY OF RURAL AFFAIRS

# Challenges of national bioeconomy strategies

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# Content

- Challenges of national bioeconomy strategies: Estonian Development Plan of Agriculture and Fisheries 2030
- BIOEAST initiative/BioEASTsUp project

# **Estonian Development Plan of Agriculture and Fisheries 2030 (*draft*)**

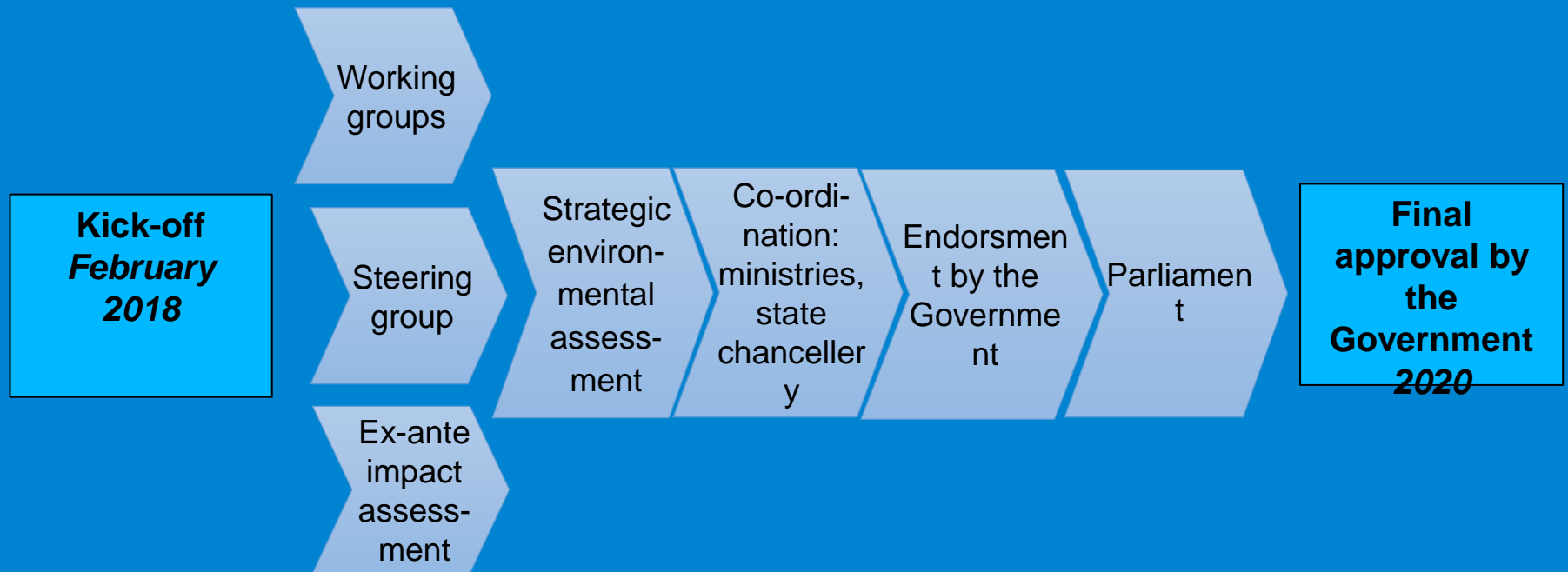
# Estonian Development Plan of Agriculture and Fisheries 2030

## (DPAF)

*Single strategic development document for the sectors and developing the programs, measures and activities necessary for its implementation:*

- contribute to the development and competitiveness of Estonian agriculture, fisheries, aquaculture and food industry, balanced development of rural and coastal areas, maintaining good plant and animal health, ensuring food safety and preserving a clean environment and species diversity
- Responsible ministry: the Ministry of Rural Affairs
- Other ministries (Ministry of the Environment, Ministry of Social Affairs, Ministry of Economic Affairs and Communications, Ministry of Education and Research, Ministry of Finance) and the State Chancellery participate
- Partners and stakeholders in the field are involved

# Estonian Development Plan of Agriculture and Fisheries 2030



# DPAF 2030 (*draft*)

## Vision 2030

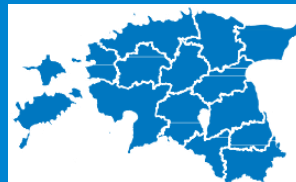
Estonian food is valued and it is good to live in the countryside

## Overall objective

Estonian food is preferred, the environment and biodiversity are preserved, food businesses are successful and rural and coastal communities are viable

### SUB-OBJECTIVE

Smart and sustainable agriculture, food production and rural life, and safe food and a protected environment



### SUB-OBJECTIVE

Sustainable fisheries that ensure the competitiveness of the fisheries sector and the sustainable management of fish stocks

## Horizontal development issues

Bioeconomy, exports, environment and comprehensive rural development ...

# DPAF 2030 and bioeconomy

- Estonia has the opportunity to meet the growing global demand for food, feed, bioenergy, biomaterials and other products based on bioresources
  - ✓ Biggest bottleneck is **low added value**
  - ✓ The principles of the **circular economy** are not yet widespread
- To realize this potential, effective **cross-sectoral cooperation** and the **agreement of strategic developments** at national level are important
- Support should be given to drawing up more specific bioeconomy operational programs at **regional level**, based on local specificities and regional resources and their location

# DPAF 2030 and bioeconomy

- Contribute to the development of the **bioeconomy** primarily in the value chains related to **agriculture, fisheries, aquaculture and the food industry**
- One important direction of the bioeconomy is the use of **residues and by-products** as a valuable resource
- **Aquaculture and marine farming** also has great development potential
- Efforts should also be made to set up **biorefineries** suitable for primary producers by supporting the necessary development activities, including pilot and demonstration projects -> greener and more cost-effective industrial base and new jobs



# Coherence of strategies

## HORIZONTAL

State strategy „Estonia 2035“ (*draft*)

## HORIZONTAL

Circular economy  
Development  
document and Action  
Plan (*under  
development: 2021*)

## AGRICULTURE FISHERIES

Estonian Development  
Plan of Agriculture and  
Fisheries 2030 (*draft*)

## FORESTRY

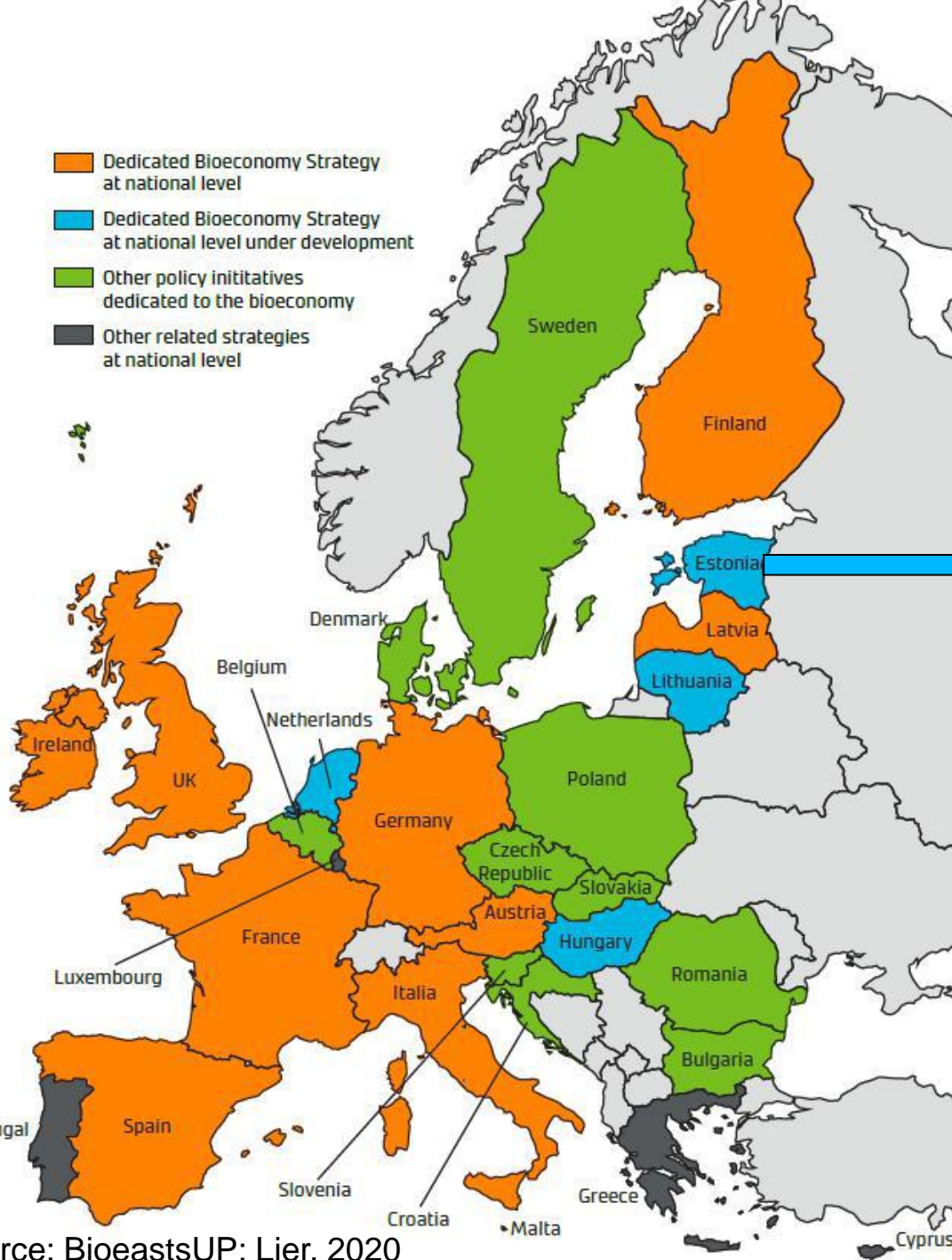
Forestry  
Development Plan  
2021- 2030 (*draft*)

## ESTONIAN BIOECONOMY STRATEGY??

## RENEWABLE ENERGY

Energy Economy  
Development Plan  
until 2030

- Dedicated Bioeconomy Strategy at national level
- Dedicated Bioeconomy Strategy at national level under development
- Other policy initiatives dedicated to the bioeconomy
- Other related strategies at national level



**2015:** Analysis of bioeconomy in Estonia (Development Fund)

**2015:** Estonian Bioeconomy Strategy 2030 drafting proposal (Estonian Ministry of Rural Affairs)

**2020 ...**



BIOEAST initiative/BioEASTsUp proje





## VISION 2030

- Through the governmental initiative, CEE countries set the vision for 2030: to develop knowledge and cooperation based circular bioeconomies, which helps to enhance their inclusive growth and to create new value-added jobs especially in rural areas, maintaining or even strengthening environmental sustainability

## MISSION:

to assist CEE countries to operationalize their Vision for 2030 drawing on their potential and offering opportunities for:

- sustainable increase of biomass production
- circular (“zero waste”) processing of the available biomass
- viable rural areas

# BIO east



**2019 Declaration:** on the role of BIOEAST in the context of Horizon Europe (signed by 22 ministries)

**2018 Declaration:** on the Vision for BIOEAST

**2017 Declaration:** on broadening the remit of the BIOEAST initiative beyond H2020

**2016 Declaration:** on stronger inclusion into H2020



# Achieved until now

- 11 CEE countries/ministries join the initiative, Serbia asked for accession
- 4 political declarations, last signed by 22 ministries
- 5 international conferences
- H2020 CSAs: BIOEASTsUP and Power4BIO
- 5 thematic working groups



# Next Steps

- Guidance on **National Bioeconomy Strategy** Development
- Establishing **National BIOEAST HUBs** for the stakeholders engagement at national level
- Macro-regional **Strategic Research and Innovation Agenda (SRIA)**
- **Foresight exercise** for defining the potential future scenarios and priorities
- Five **Thematic Working Groups** for SRIA development and participation in European Partnerships: Forestry (coordinated by SK), Sustainable yields and agro-ecological intensification (HU), Bioenergy and new value-added products (HR), Food Systems (PL), Fresh water based bioeconomy (CZ), Education (? Coordination?)

# BIOEASTsUP - Advancing Sustainable Circular Bioeconomy in CEE countries

*Coordination and Support Action in Horizon 2020*

- **Start:** 1 October 2019 **End:** 30 September 2022
- **Budget:** 3 M€
- **Coordinator:** IUNG (Poland)
- 21 partners from 11 countries:
  - 11 BIOEAST countries + DE and FI
  - 4 Ministries
  - 14 Research Institutes
  - 3 SMEs







The aim of BIOEASTsUP:

- to support the BIOEAST initiative and Action Plan for transition of 11 CEE countries to bioeconomy
- to trigger strategic thinking at governmental level and transnational peer-to-peer development of national circular bioeconomy strategies in BIOEAST countries

# Contacts



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# Points to discuss

- **Dedicated** national bioeconomy strategy OR **other policy initiative** dedicated to bioeconomy OR ... ?
- Approach?: **Biotechnology and life sciences** centered approach OR **transformation** centered approach OR both (*Peterson, Kaaret 2020*)? -> transformative pathway restructuring the governance system for bio-based sectors
- How to ... **influence, communicate, involve**
- Role of **projects** (BIOEASTsUP, RDI2Club, applied research etc.)



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