# Bioeconomy - New perspectives for the primary production and rural areas

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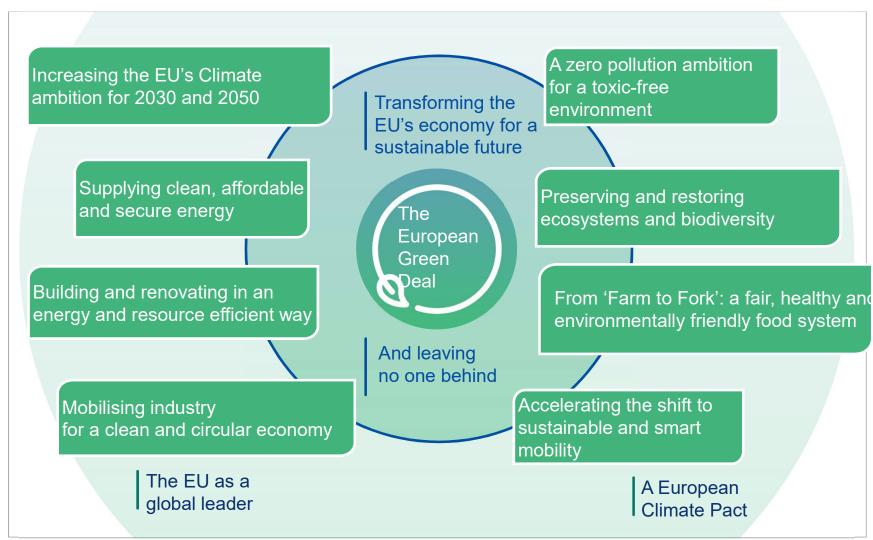


## Content

- Political context and bioeconomy in the EU
- Future Common Agricultural Policy (CAP)
- Research and Innovation as key enablers
- Conclusion

#### The European Green Deal – new economic model for EU





# Biorefinery Glas: Ireland's first grass-fed biorefinery



**Munter: Added Value for Agriculture and Nature** 



# **Examples of EIP-AGRI Operational Groups**

GO-ACBD: Biodegradable mulch films to reduce the plastic footprint in agriculture



...and many other inspiring examples:

https://ec.europa.eu/eip/agriculture/en/find-connect/projects

# Agriplus: Renewable energy and recycling of fermentation residues



Hemp - from catch crop to textile





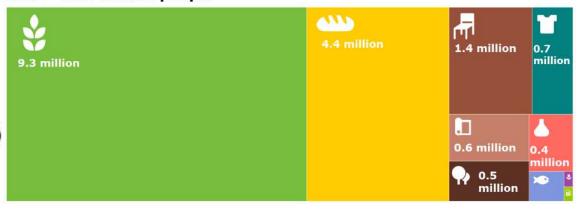
# **Bioeconomy in the EU**

- Agriculture
- Forestry
- 👩 Fishing and aquaculture
- Manufacture of food and beverages and other agro-manufacturing
- Manufacture of bio-based textiles
- Manufacture of wood products and furniture
- Manufacture of paper
- Manufacture of bio-based chemicals, pharmaceuticals, plastics and rubber (excluding biofuels)
- Manufacture of liquid biofuels
- Production of bioelectricity

#### Turnover - EUR 2.2 trillion



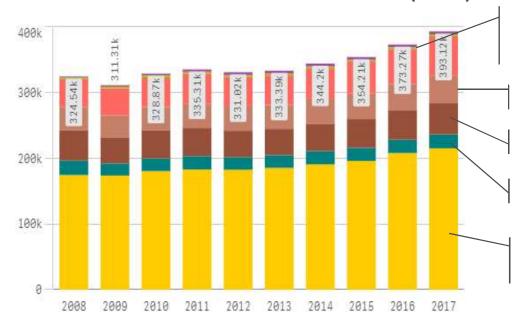
Jobs - 17.5 million people





# Bio-based industries are becoming more important

Development of value added growth in the bio-based industries between 2008 and 2017 in EU27 (mio €)



Bio-based chemicals (9.6 bn €) pharmaceuticals (46.6 bn €) plastics and rubber (4.1 bn €)

Paper

Wood products and furniture

Bio-based textile

Food, beverage and tobacco

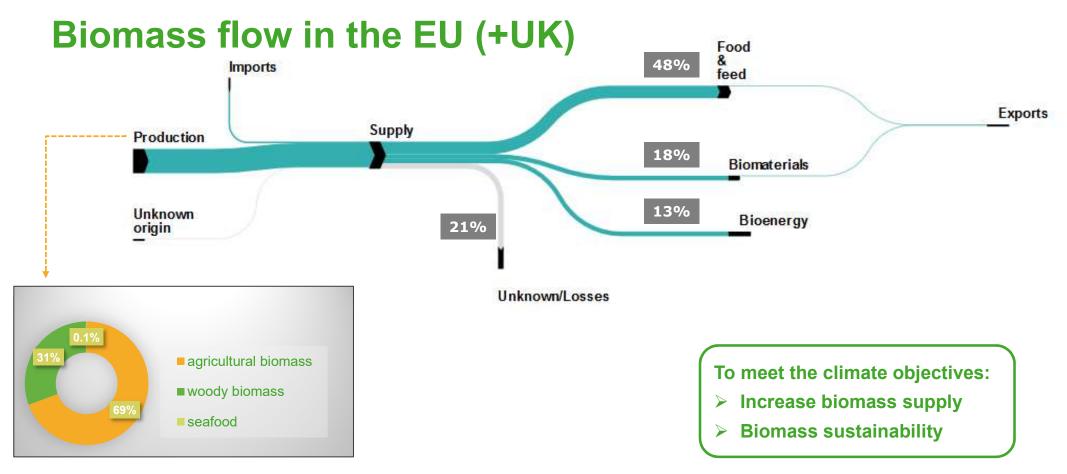
Source: https://datam.jrc.ec.europa.eu/datam/mashup/BIOECONOMICS/

#### BB industries in EU\*

- 7.55 million workers
- € 393 billion of value added
- 5.3% growth from 2016 to 2017

\*Construction and waste treatment are not accounted for





https://datam.jrc.ec.europa.eu/datam/mashup/BIOMASS\_FLOWS/index.html



# Future CAP common specific objectives

Competitiveness



Power in Food Chain



Climate Change contribute to CC mitigation and adaptation, as well as sustainable energy

Viable Income







9 common specific CAP OBJECTIVES



Resource Management



Landscapes & Biodiversity

Rural Areas

promote employment, growth, social inclusion and local development in rural areas. including bio-economy and sustainable forestry



**Generational Renewal** 



# Opportunities in the national CAP plans

Conditionality

GAEC 2: Protection of carbon-rich soils

GAEC 4: Protection of river courses against pollution and run-off

GAEC 7: No bare soil in most sensitive period(s)

and

SMR 2 – Nitrates Directive (in case of use of manure in biodigesters)

Voluntary Coupled Support (SRC and others)

#### **Eco-schemes**

Establishment of systems, e.g. paludiculture, which will produce biomass

Enlarge strips beyond conditionality, allowing harvest of biomass without compromising the filtering function

Change of crop rotation, which will include coverage in sensitive period with variety of established and novel crops for anaerobic digestion (e.g. intermediate crops)

#### **Rural Development**

Investments

Cooperation

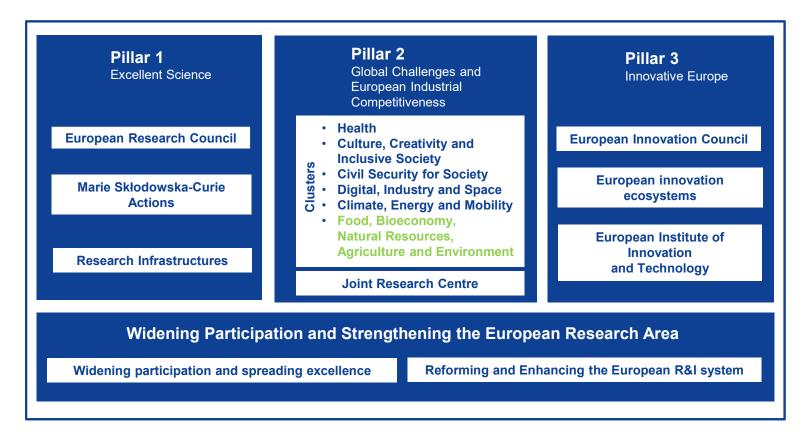
Exchange of knowledge and information

New businesses and young farmers

DISCLAIMER: Following examples is for illustrative scope and does not necessarily reflect the official opinion of the European



## **Horizon Europe**



**EUR 9 bn. for Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"** 

# Policies priorities translated in Horizon Europe Cluster 6





Cluster 6 Work Programme 2021-2022

Published soon!

Cluster 6
Work Programme
2023-2024





## **European R&I partnerships**

2023-2024 2025



2021

Circular Biobased Europe



Agroecology living labs and research infrastructures



Animals health and welfare



Agriculture of data



Safe and sustainable food systems



Forests and Forestry for a Sustainable Future



### **Conclusion**

- The bioeconomy offers great opportunities for agriculture, forestry and rural areas.
- Many innovative solutions already exist that should now be scaled-up and deployed at scale.
- Primary producers need to play a more central role into the bioeconomy supply chain.
- An adequate mix of funding possibilities (in particular CAP and Horizon Europe) to be identified.

