



# JRC work on bioeconomy Collaboration with Junta de Andalucía

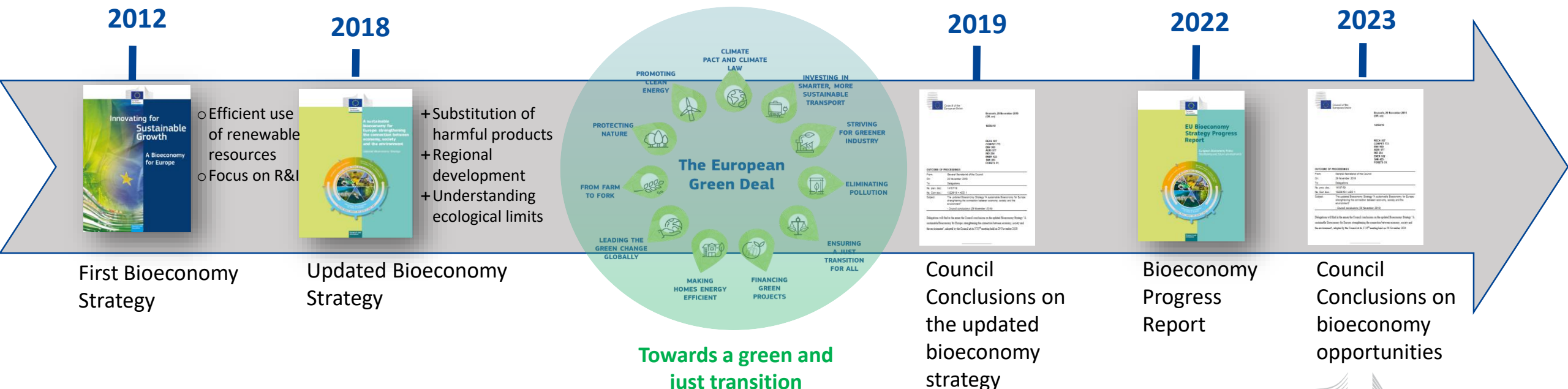
Study visit of the project “Enhanced Strategic Planning at Regional and Local Levels in Croatia”

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Directorate for Sustainable Resources

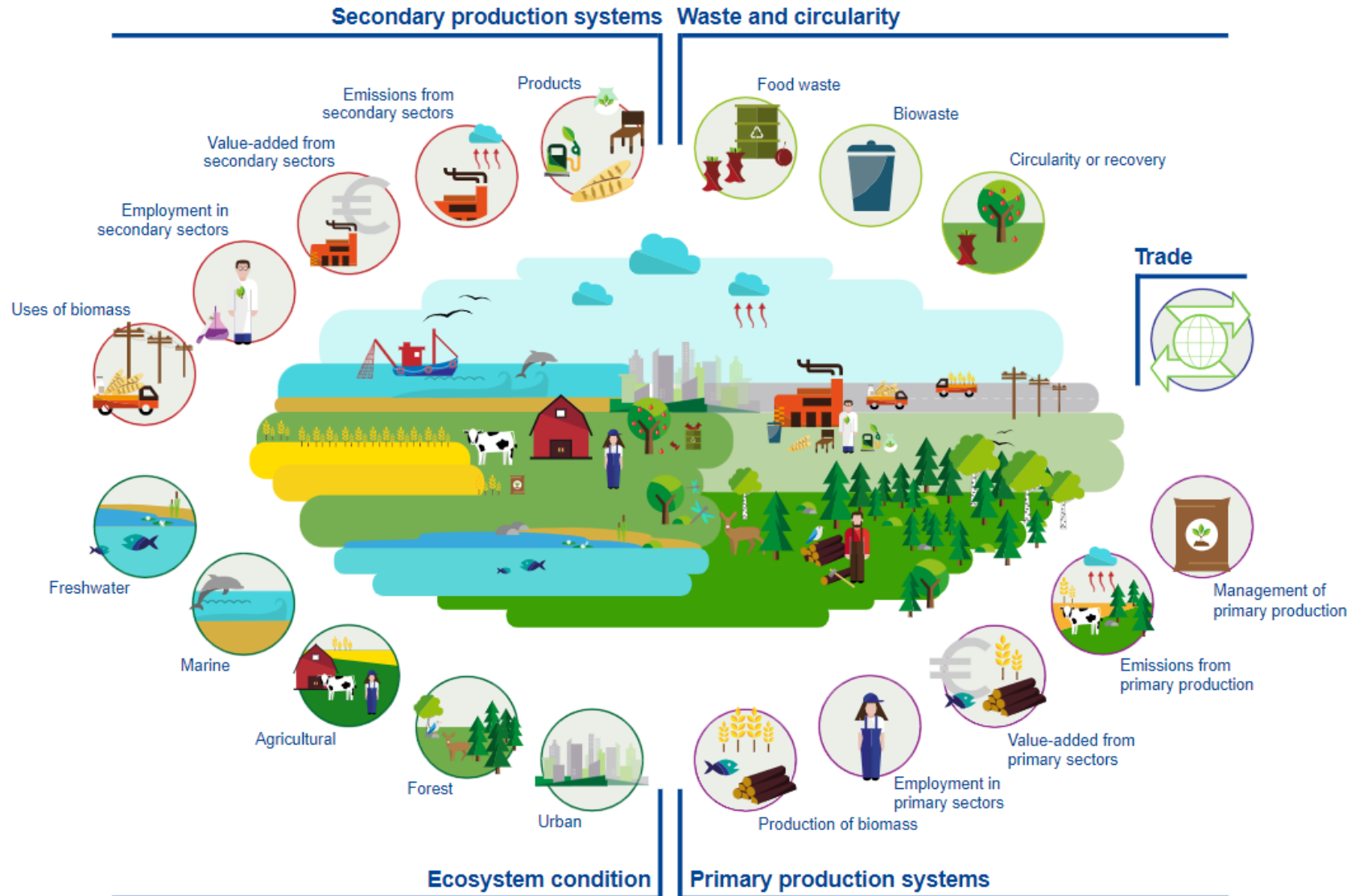
# Bioeconomy in the EU: A decade of policy

**Bioeconomy:** all sectors and associated services that **produce, use, process, distribute** or **consume biological resources**, including ecosystem services.

As such it is a natural **enabler** and **result** of the European **Green Deal transformation.**



# EU-Bioeconomy Monitoring System



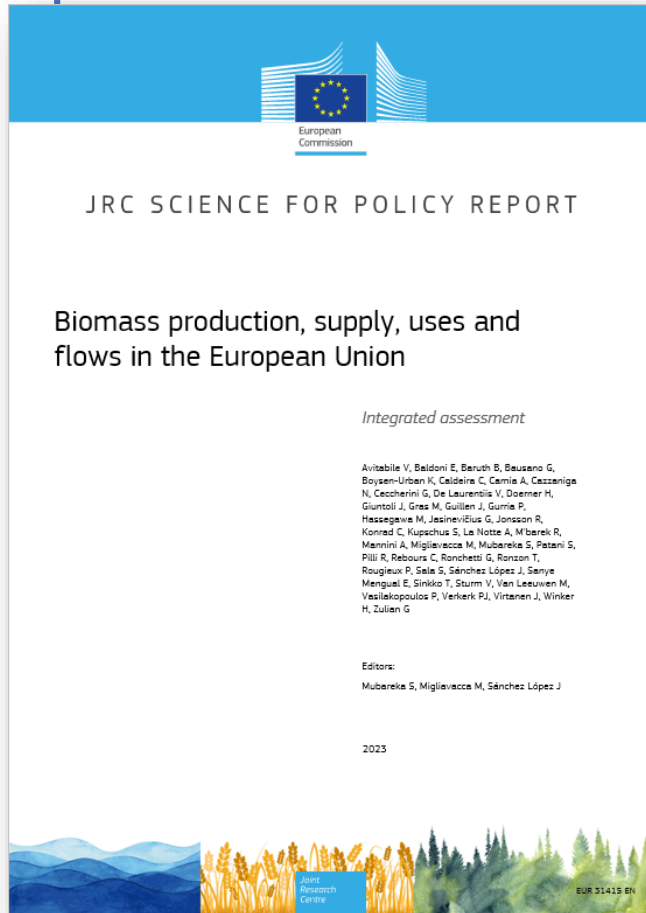
Knowledge Centre for Bioeconomy:  
[https://knowledge4policy.ec.europa.eu/bioeconomy/monitoring\\_en](https://knowledge4policy.ec.europa.eu/bioeconomy/monitoring_en)

# JRC work on bioeconomy

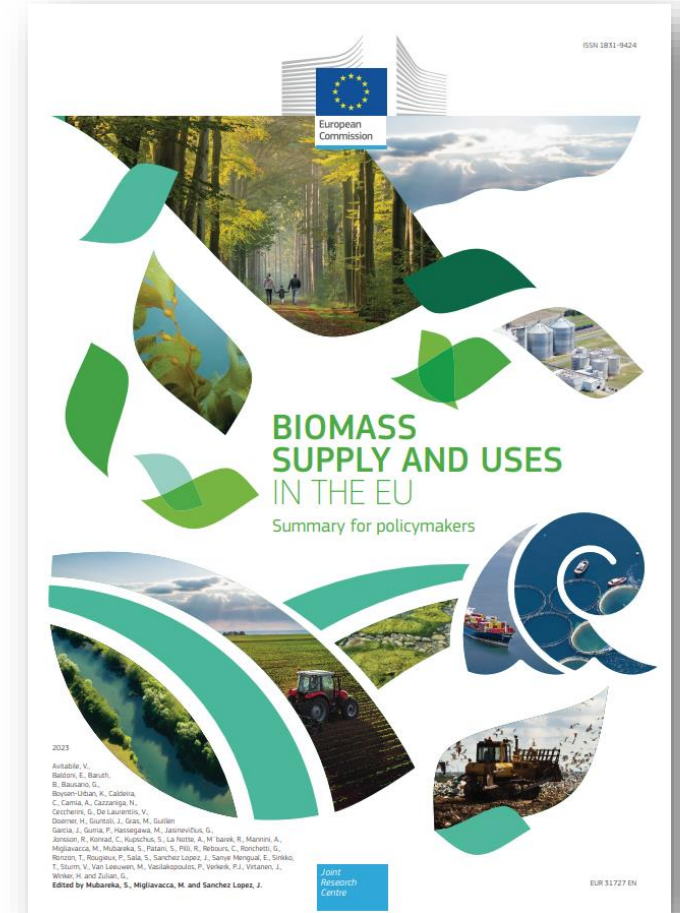
(focus Unit D.4. Economics of the Food System)

- Quantification of biomass flows in the EU
- Socioeconomic indicators

# Biomass production, supply, uses and flows in the EU



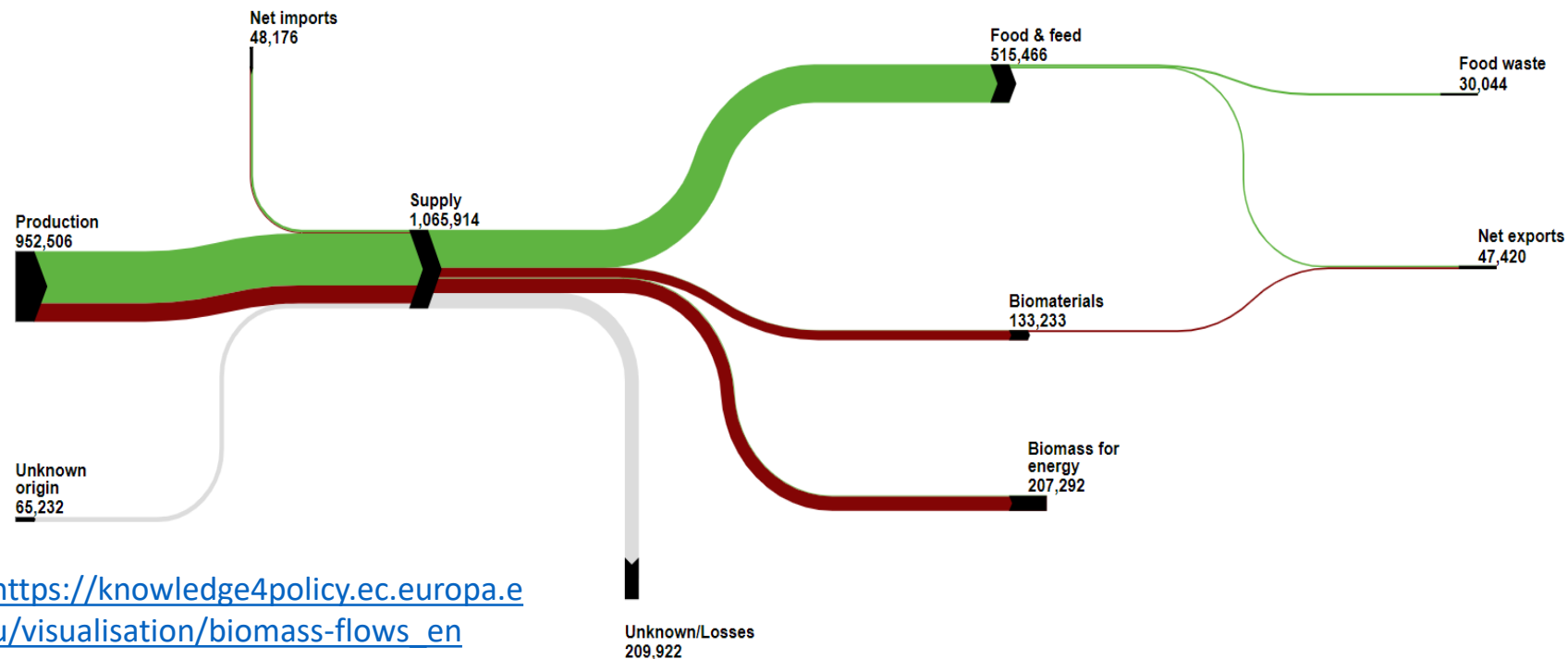
- **Production and use of biomass flows** from agriculture, forestry, and aquatic resources across the EU.
- **Innovative aspects**
  - Organic waste recovery
  - Timber price variability
  - Environmental impacts
  - New uses of biomass (e.g. energy)



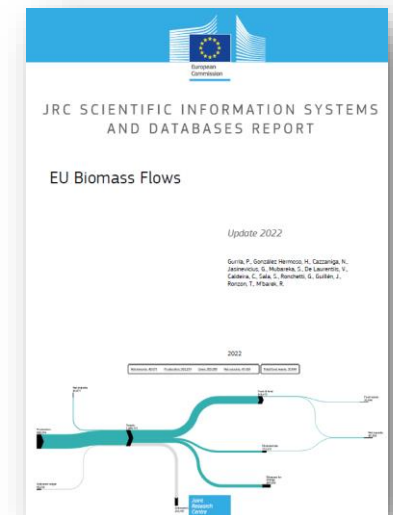
JRC, 2023a, <https://publications.jrc.ec.europa.eu/repository/handle/JRC132358>  
JRC, 2023b, <https://publications.jrc.ec.europa.eu/repository/handle/JRC133505>  
EEA, 2023, <https://www.eea.europa.eu/publications/the-european-biomass-puzzle>

# Biomass flows in the EU

- The total supply of biomass in the EU-27 adds up to approximately **1 billion tonnes** of dry matter of which **90%** is produced in the EU.
- The **share of biomass** used from agricultural sources (62%) is overall higher than the share of woody biomass used (38%) in the EU, however, shares vary greatly between Member States.

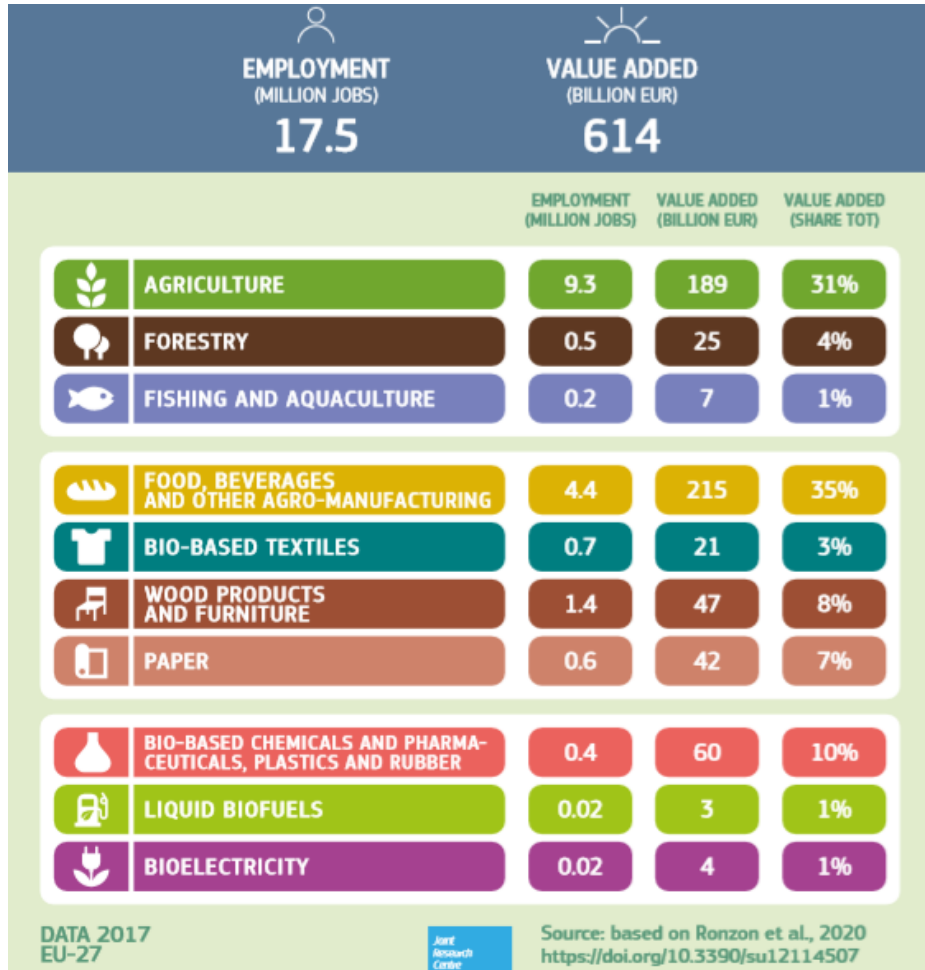


[https://knowledge4policy.ec.europa.eu/visualisation/biomass-flows\\_en](https://knowledge4policy.ec.europa.eu/visualisation/biomass-flows_en)



<https://publications.jrc.ec.europa.eu/repository/handle/JRC128384>

# Bioeconomy as key sectors of the EU's economy



- **8.3 %** of the EU's workforce in 2020
  - **~75%** employed in agri-food sectors.
- **4.9%** of GDP
  - **~67%** in agri-food sectors

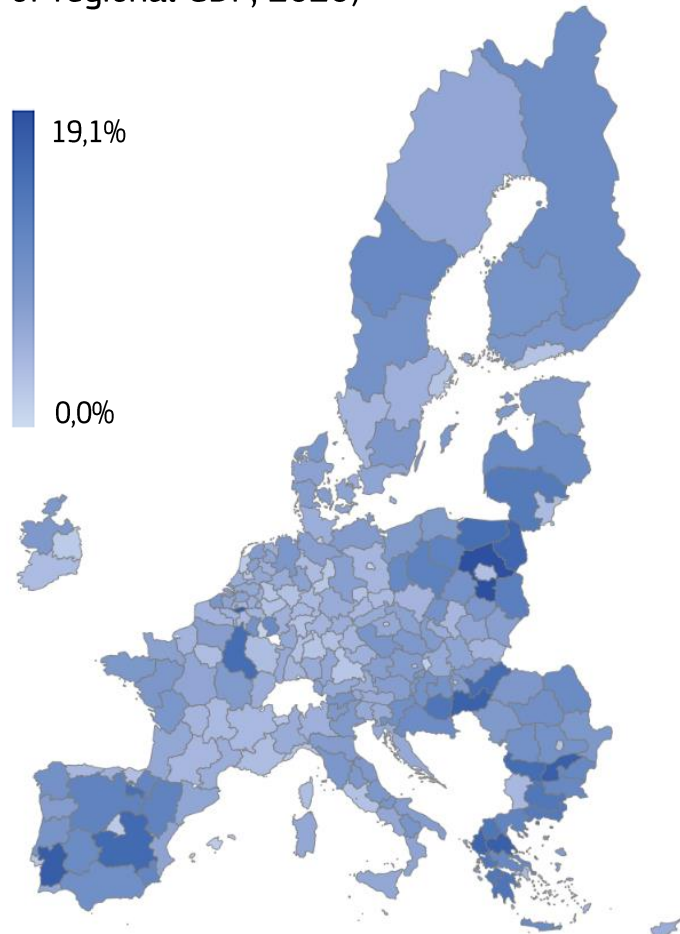
- Important innovations in food and other bio-based industries show the potential of the bioeconomy
- Besides environmental challenges, the bioeconomy can potentially enhance socioeconomic resilience

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

# Territorial dimension of the EU bioeconomy

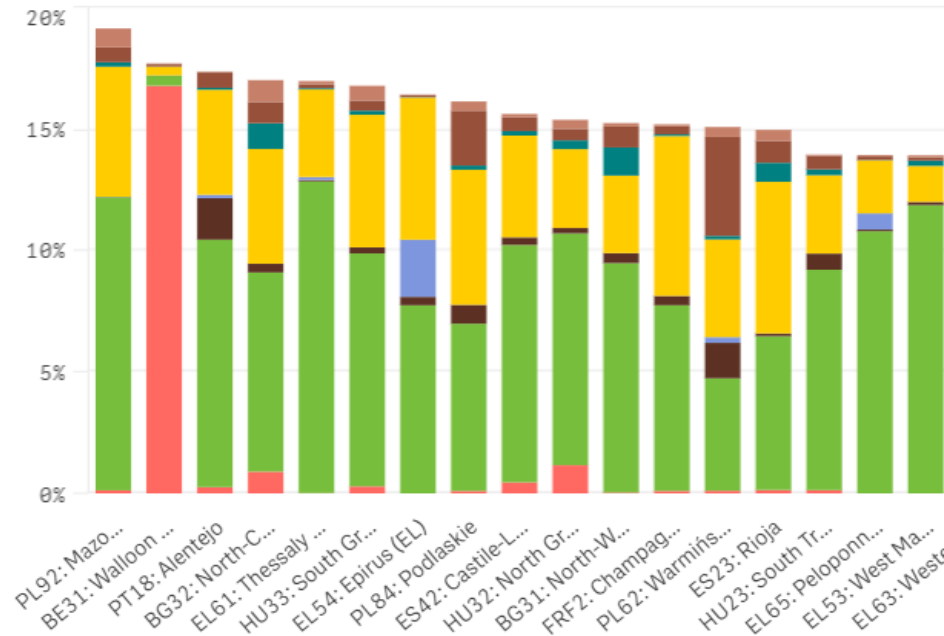
## Value added in the bioeconomy

(% of regional GDP, 2020)



## Value added by bioeconomy sector

(% of regional GDP, 2020)



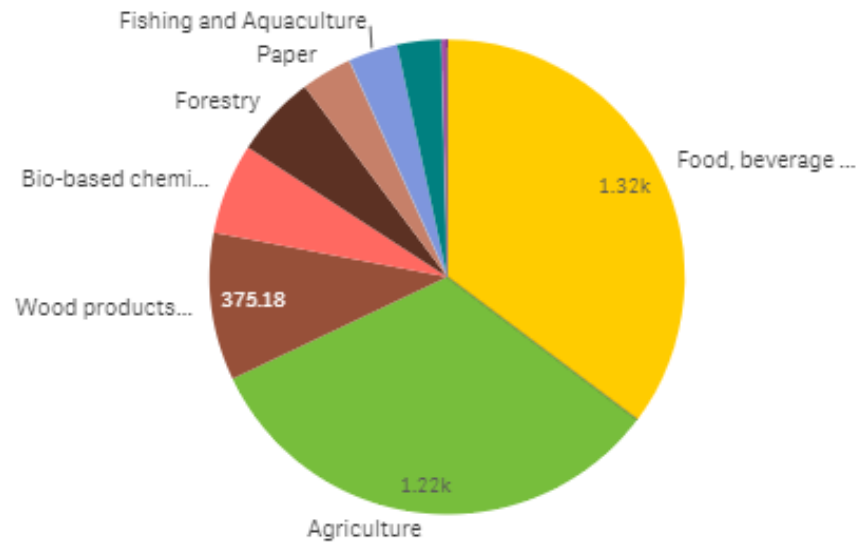
Source: [BioRegEU pilot dataset](#)



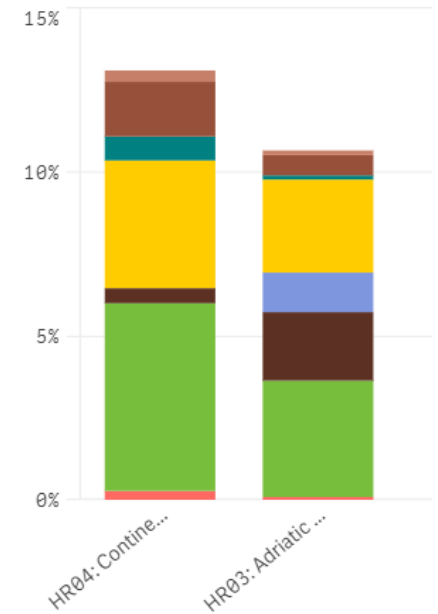
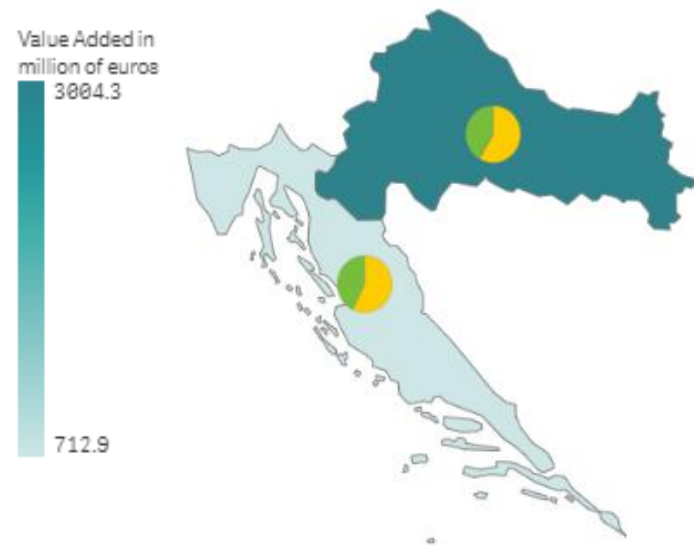
# Bioeconomy in Croatia

<p>Employment :</p> <p><b>203.2 thousand persons</b> (12.3% of Employment)</p>	<p>Value added</p> <p><b>3.700 million euro</b> (7.3% of GDP)</p>	<p>Value added per worker:</p> <p><b>18.000 euros</b></p>
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**Value added by sector in Croatia (2020)**  
(million €)



**Value added in the bioeconomy (million euros, 2020)**



Source: <https://datam.jrc.ec.europa.eu/datam/mashup/BIOECONOMICS/> and BioRegEU pilot dataset

# Collaboration with Junta de Andalucía

- Technical discussions
- Contributions to events

# Technical discussions

## Methods and results discussions

- The outcomes of JRC research are valuable for regional projects, such as bio-based shares or regional indicators.
- Comparing the results of both entities allows for checking the consistency and validity of the results.

## Occasional technical meetings

- Presentation of recent advancements by both parties
- Opportunities for future collaboration
- Potential involvement of third parties.

# Circular Bioeconomy Forum

- Celebrated in Seville in November 23, 2023
- Exchange of experiences among the key agents of circular bioeconomy (Public administrations, enterprises, R&I institutions and civil society)
- Roundtables on:

Bioeconomy policies and strategies

Business success cases

Territorial governance

Bioeconomy value chain with representatives of the quadruple helix

<https://www.forobioeconomicircular.com/>



# Bioeconomy Changemakers' Festival 2024

## *Youth as drivers of the transformative change*

- It aims to engage youth as drivers of the transformative change required in view of the multiple challenges the EU is facing today, and to unlock the full potential of the bioeconomy.

**Raising awareness** about the bioeconomy and what it can achieve;

**Showcasing opportunities available** to accelerate bioeconomy innovation and upscaling and **presenting success stories**;

**Engaging** more people in the bioeconomy and encouraging networking;

**Providing input** to the next steps of the EU Bioeconomy policy.

### Reaching out beyond Brussels

- **Satellite events** link to local changemakers' activities
- Events in **Seville, Cordoba** and **Almeria** organized by **Junta de Andalucía**
- **Collaboration with local institutions** (Youth organizations, universities,...).
- Potential **contributions from JRC**

# Thank you for your attention

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