

# Bioeconomy Communication 2018



# What is the EU's understanding of the Bioeconomy.....

All sectors & systems that use / produce  
/ process / are driven by biological resource

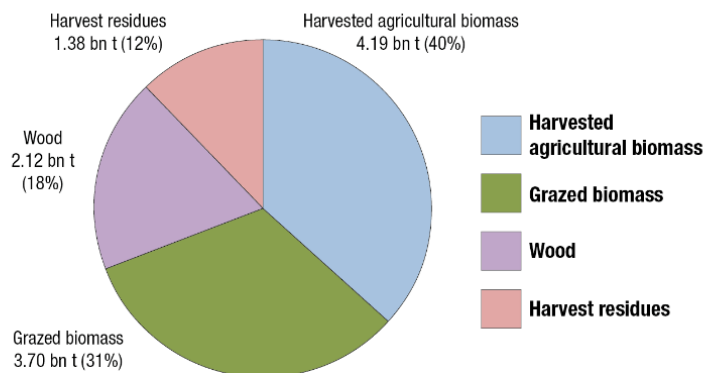


- Ecosystems on land and sea
- Primary production systems - agriculture, forestry, aquaculture / fisheries – **incl. waste/side streams**
- Food, feed, fibres, bio-based industry, fuels and bio-energy





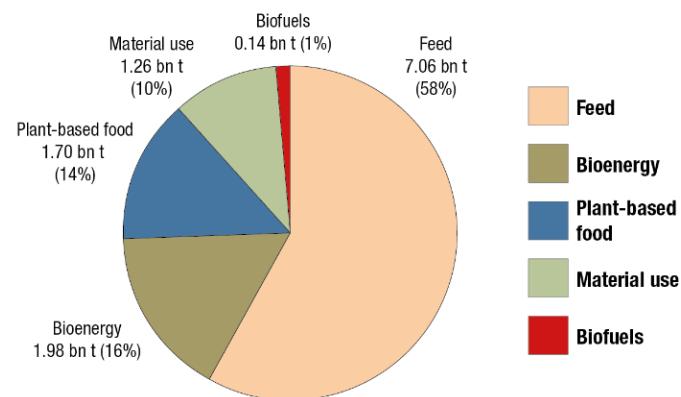
**Global biomass supply 2011 by sources,  
Total: 11.4 bn t dry matter**



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Full study available at [www.bio-based.eu/markets](http://www.bio-based.eu/markets)

**Global biomass demand in 2011 by sectors,  
Total: 12.1 bn t dry matter**

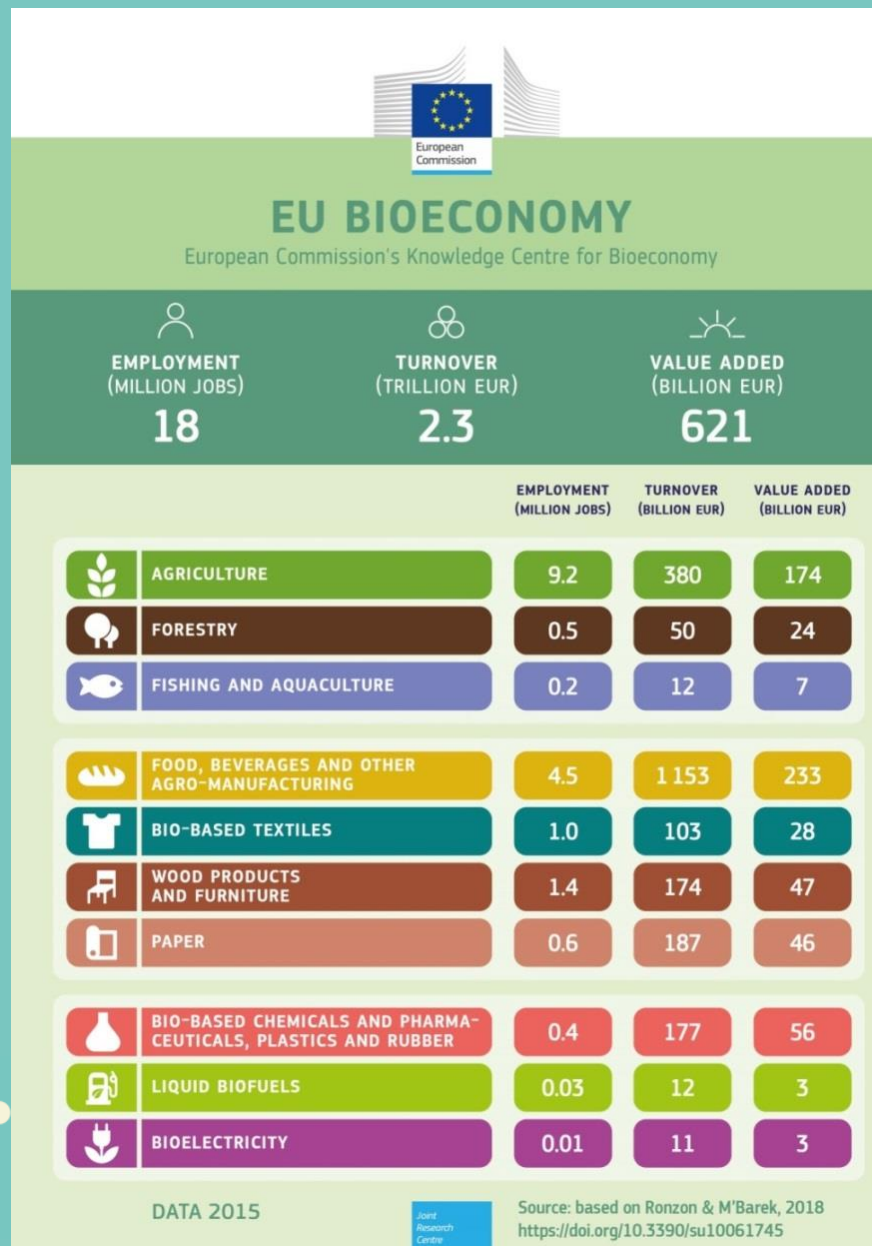


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Study available at [www.bio-based.eu/markets](http://www.bio-based.eu/markets)



# The European Bioeconomy in numbers





# CONTEXT

## • Communication on Bioeconomy – 2012

To pave the way to a more innovative, resource efficient and competitive society that reconciles food security with the sustainable use of renewable resources for industrial purposes, while ensuring environmental protection.

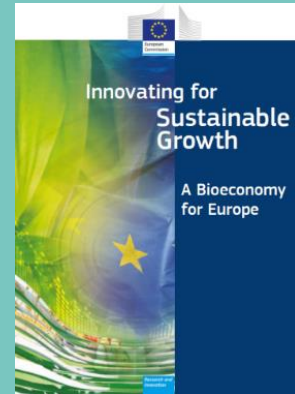
Food security, sustainable management of natural resources, climate change mitigation, reduced fossil-dependence, jobs creation and EU competitiveness

## • Review of Bioeconomy Strategy – 2017

good delivery, objectives still relevant, increasing importance, more focussed actions for evolved context (SDGs, renewed industrial policy, circular economy, ...)

## Communication on updated Bioeconomy – 2018

- Major initiative under the Commission's 2018 workplan
- Coordination by the Secretariat General and DG Research and Innovation together with the departments for agriculture, environment, marine, industry, energy and others (DGs AGRI, ENV, MARE, GROW, JRC, ENER...)
- Adopted on 11/10/2018



European  
Commission





Scarf prototype, courtesy of METSÄ



Cardoon and products, courtesy of NOVAMONT

**European Commission - Press release**

## **A new bioeconomy strategy for a sustainable Europe**

Brussels, 11 October 2018

**Today the Commission has put forward an action plan to develop a sustainable and circular bioeconomy that serves Europe's society, environment and economy.**



# The updated Bioeconomy Strategy





# WHAT does the new Bioeconomy strategy aim to achieve....

- Link the sustainable use of renewable biological resources for food, feed, bio-based products and bioenergy, with the protection and restoration of biodiversity, ecosystems and natural capital across land and water.
- Step up action to ensure that the Bioeconomy provides a long-term balance of social, environmental and economic gains.

## .... and HOW

- A SYSTEM-wide approach,
- expanding beyond research and innovation,
- delivering on policies across sectors, addressing trade-offs
- strengthening CIRCULARITY and SUSTAINABILITY
- delivering for the citizens - on jobs, sustainable growth, well being - and on planetary health
- in LOCAL contexts, valorising local resources and adapted to local needs



# DRIVING EU POLICY PRIORITIES

- **Job creation** – e.g. Bio-based industries could create up to 1 million jobs by 2030 (industry estimate), in particular in rural and coastal areas
- **Climate mitigation** – through use of bio-energy/ bio-based materials/ecosystems services; e.g. the use of 1 ton of wood instead of 1 ton of concrete in construction can lead to 2.1 ton CO<sub>2</sub> reduction
- **A renewed and strengthened EU industrial base** – Global leadership position in bio-chemicals and substitutes for fossil raw materials (plastics, packaging, cosmetics, consumer goods) based on research and innovation
- **Circular economy** – e.g. cutting food waste, recycling of high value organic waste
- **Healthy ecosystems and biodiversity** – e.g. through restoring degraded soils





# Actions

1

## STRENGTHEN AND SCALE-UP THE BIO-BASED SECTORS, UNLOCK INVESTMENTS AND MARKETS



**Mobilise** stakeholders in **development** and **deployment** of **sustainable bio-based solutions**



Launch the **EUR 100 million** Circular Bioeconomy Thematic **Investment Platform**



**Analyse** enablers and **bottlenecks** for the deployment of **bio-based innovations**



Promote and develop **standards, labels and market uptake** of **bio-based products**



Facilitate the **development of new sustainable biorefineries**



Develop substitutes to fossil based materials that are **bio-based, recyclable and marine biodegradable**





# Actions

2

## DEPLOY LOCAL BIOECONOMIES RAPIDLY ACROSS EUROPE



**Launch a Strategic Deployment Agenda** for sustainable food and farming systems, forestry and bio-based products



**Launch pilot actions for the development of bioeconomies** in rural, coastal and urban areas



**Support regions and Member States** to develop Bioeconomy Strategies



**Promote education, training and skills** across the bioeconomy





# Actions

3

## UNDERSTAND THE ECOLOGICAL BOUNDARIES OF THE BIOECONOMY



Enhance **knowledge** on biodiversity and ecosystems



Monitor **progress** towards a sustainable bioeconomy



Promote **good practices** to operate the bioeconomy within **safe ecological limits**

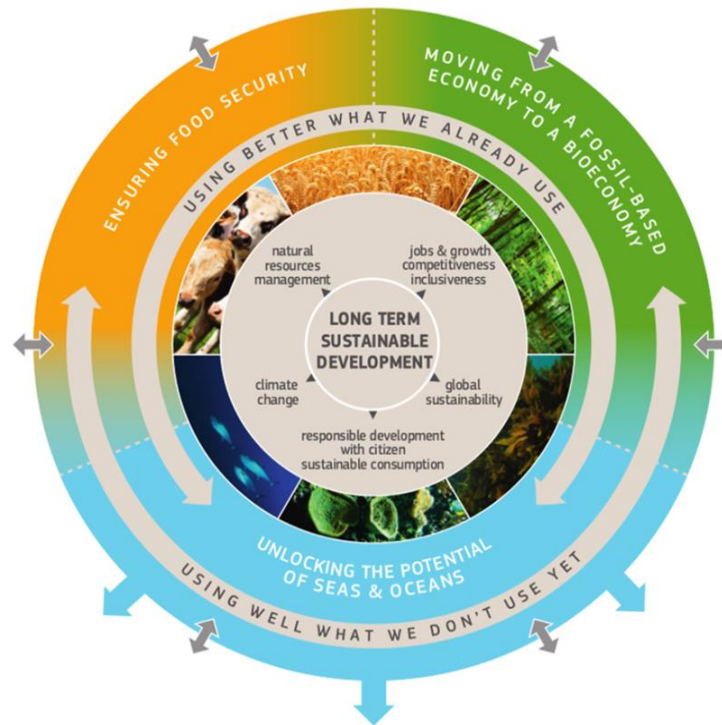


Enhance the **benefits** of biodiversity in **primary production**





Thank you !



For more information, please visit our website: <https://ec.europa.eu/research/bioeconomy/index.cfm>