



Bioeconomy Communication 2018

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

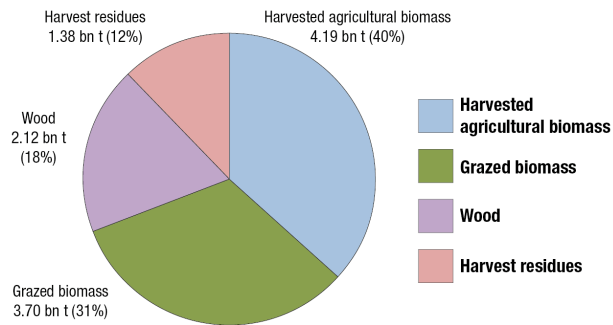
All sectors & systems that use / produce / process / are driven by biological resource



- 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



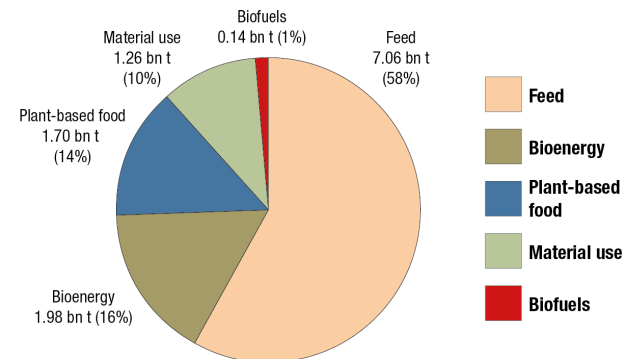
**Global biomass supply 2011 by sources,
Total: 11.4 bn t dry matter**



© INVAL-Institut.eu | 2015

Full study available at www.bio-based.eu/markets

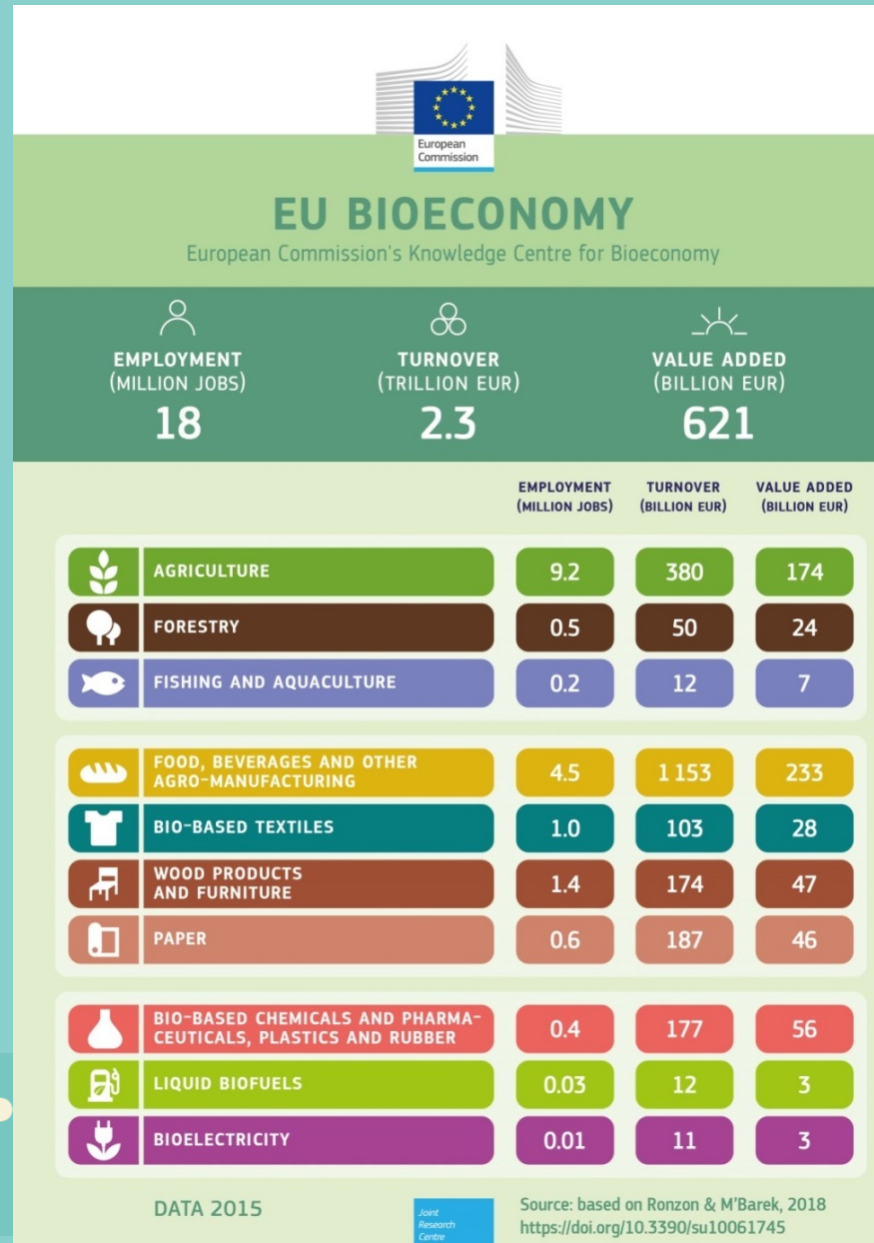
**Global biomass demand in 2011 by sectors,
Total: 12.1 bn t dry matter**



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Study available at www.bio-based.eu/markets

The European Bioeconomy in numbers



CONTEXT

- **Communication on Bioeconomy – 2012**
 - Food security,
 - sustainable management of natural resources,
 - climate change mitigation,
 - reduced fossil-dependence,
 - jobs creation and EU competitiveness
- **Review of Bioeconomy Strategy – 2017**
- **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





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.

2017 Bioeconomy Strategy Review – main findings

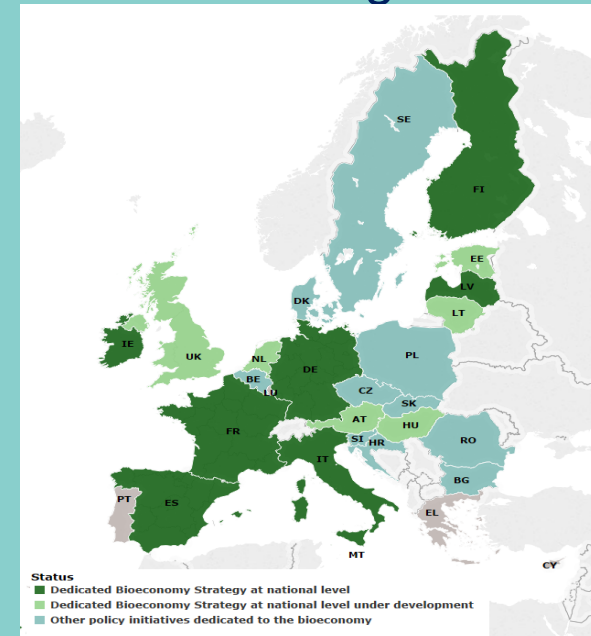
DELIVERY

- BE R&I investment doubled from FP7 to Horizon 2020
- Bio-based-industries partnership developing transformative technologies for circular BE
- Bioeconomy policies taken up in MS, regions, cities

- Bioeconomy Manifesto established

... BUT

- Further mobilisation of investment needed
- Better address policy coherence
- Current policy context (CE, SDGs, Paris,..) calls for a sustainable, circular bioeconomy
- Better monitoring and assessment frameworks needed (indicators; biomass supply & demand; ...)





European
Commission

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 CO₂ 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 new biodegradable products, including bio-based plastic substitutes



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**



EU Bioeconomy Conference 2018



**Sustainable & Circular Bioeconomy,
the European way.**

**22 October 2018
Charlemagne building**

Registration:

**[https://ec.europa.eu/research/
bioeconomy/index.cfm?pg=home](https://ec.europa.eu/research/bioeconomy/index.cfm?pg=home)**

Europe's
bioeconomy
weaving it all together



European
Commission

Which one of these is still a dream?

1) A 24 story 'plyscraper'?



Copyright: Rüdiger Lainer



Source: Sundrop Farms

2) A tomato farm in the desert?



Source: Smart Floating Farms

3) Energy, crops and fish in one farm?

Thank you !



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