



# The Bioeconomy Strategy & Action Plan

*Conference: "Towards a circular agro-food industry"*

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

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



- 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





# EU BIOECONOMY

European Commission's Knowledge Centre for Bioeconomy

EMPLOYMENT  
(MILLION JOBS)  
**18**

TURNOVER  
(TRILLION EUR)  
**2.3**

VALUE ADDED  
(BILLION EUR)  
**621**

	EMPLOYMENT (MILLION JOBS)	TURNOVER (BILLION EUR)	VALUE ADDED (BILLION EUR)
AGRICULTURE	9.2	380	174
FORESTRY	0.5	50	24
FISHING AND AQUACULTURE	0.2	12	7
FOOD, BEVERAGES AND OTHER AGRO-MANUFACTURING	4.5	1 153	233
BIO-BASED TEXTILES	1.0	103	28
WOOD PRODUCTS AND FURNITURE	1.4	174	47
PAPER	0.6	187	46
BIO-BASED CHEMICALS AND PHARMACEUTICALS, PLASTICS AND RUBBER	0.4	177	56
LIQUID BIOFUELS	0.03	12	3
BIOELECTRICITY	0.01	11	3

DATA 2015



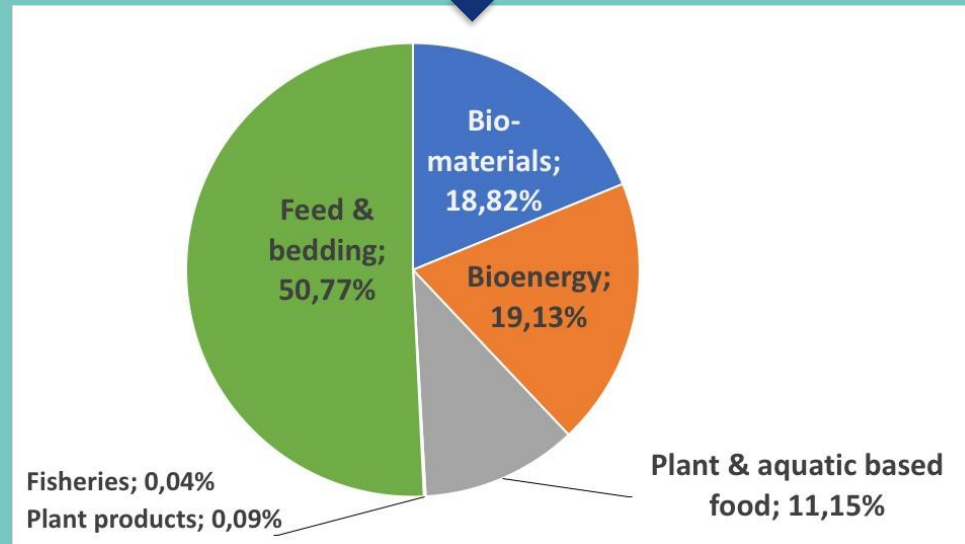
Source: based on Ronzon & M'Barek, 2018  
<https://doi.org/10.3390/su10061745>

## FOOD SYSTEMS ARE CENTRAL TO OUR BIOECONOMY

Agriculture + food =  
76% of employment  
67% of turnover – 66% of VA

## Biomass uses in the EU-28 in 2015.

Adapted from Camia et al. (2018), Joint Research Centre



European Commission

# Bioeconomy Strategy



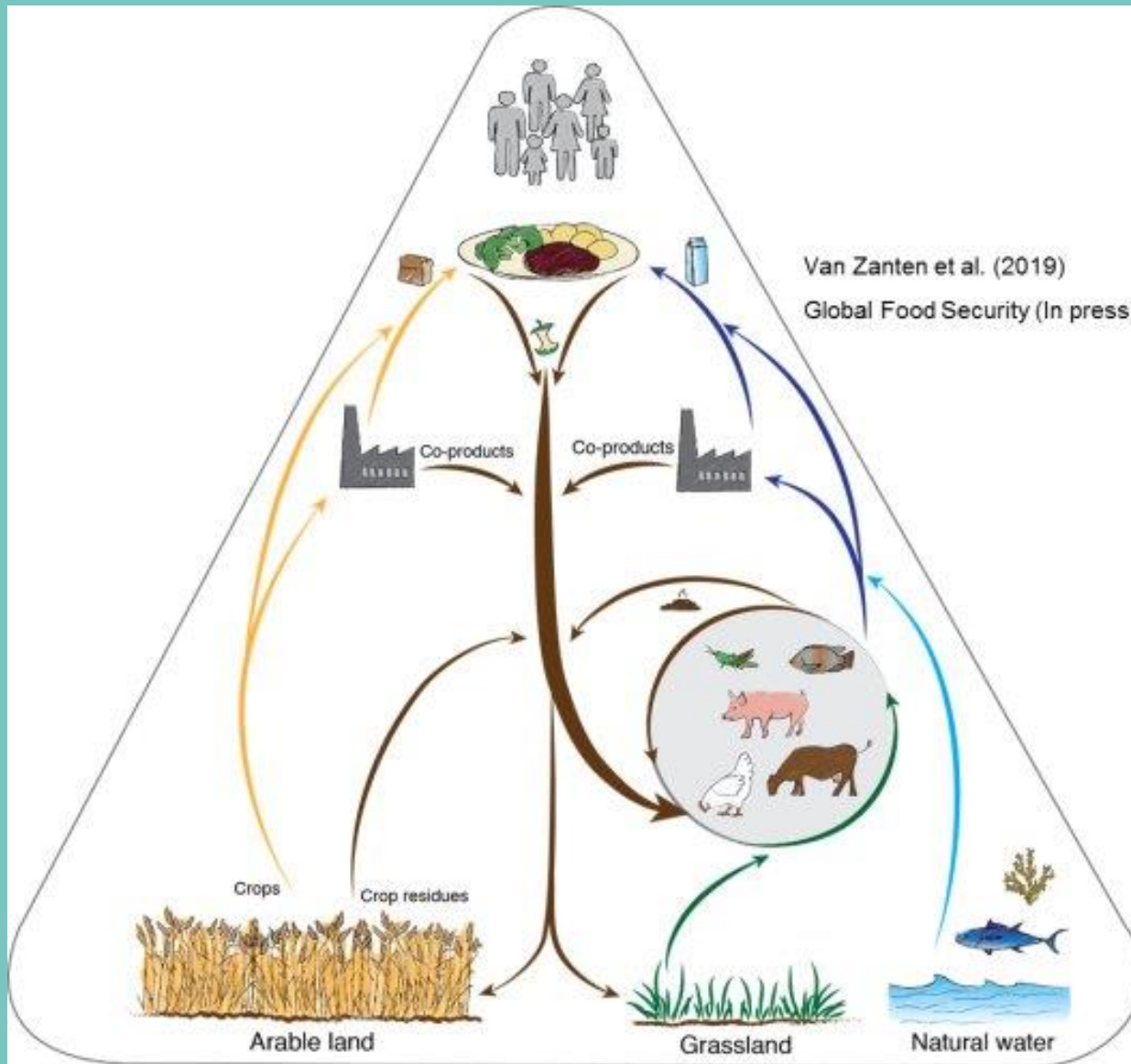
# WHAT does the updated Bioeconomy strategy aim to achieve....

- **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

# System thinking



# Bioeconomy Action Plan

## *14 Actions in 3 areas*

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

**2** DEPLOY LOCAL BIOECONOMIES RAPIDLY ACROSS EUROPE

**3** UNDERSTAND THE ECOLOGICAL BOUNDARIES OF THE BIOECONOMY



# 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**

# 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

# 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**

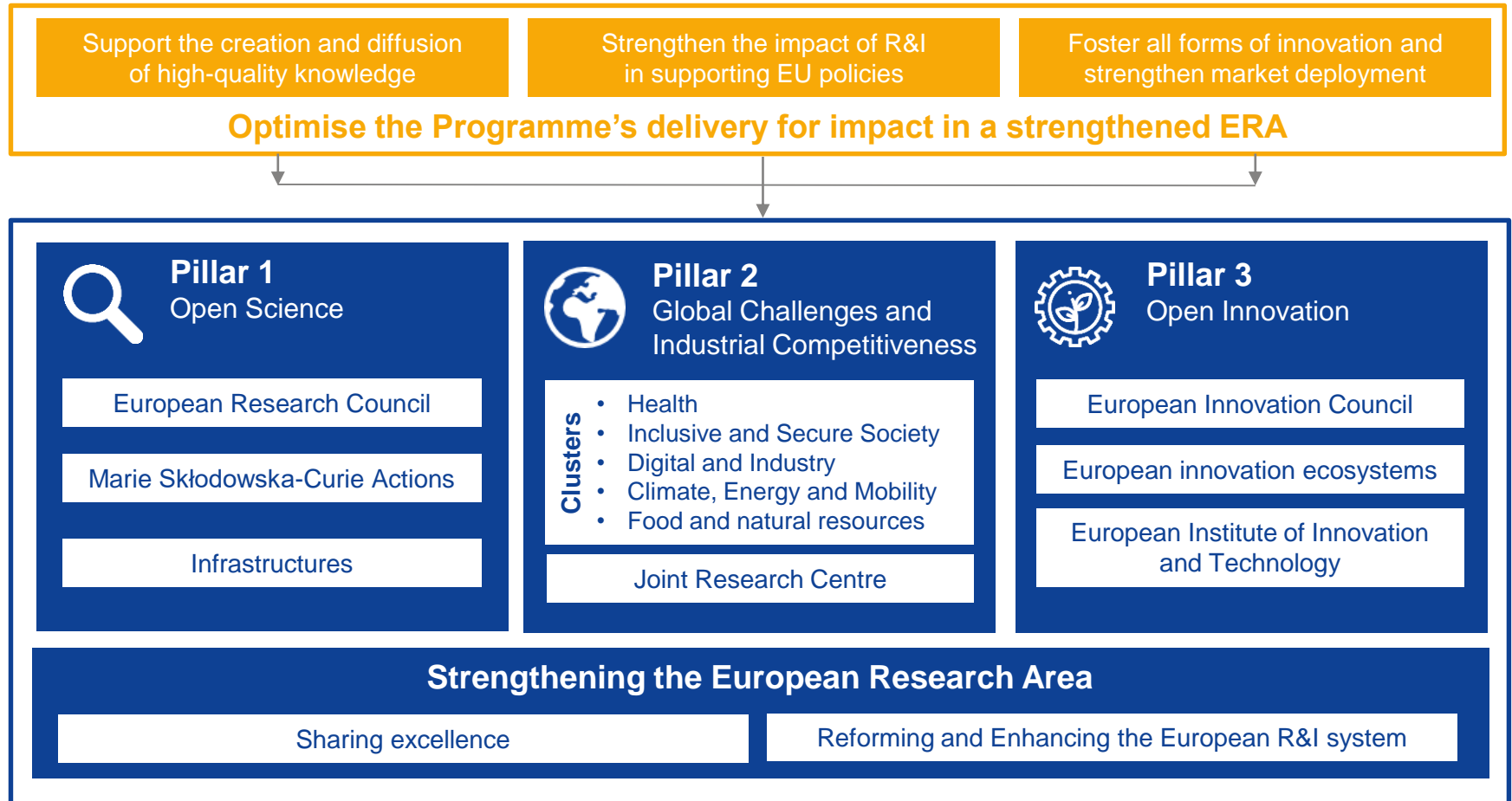


Enhance the **benefits** of biodiversity in **primary production**



# Horizon Europe evolution not revolution!

## Specific objectives of the Programme



# Strategic planning to define multiannual work programmes and calls for proposals

- Transparency and stakeholder involvement
- Prioritisation and flexibility to align to political priorities
- Internal programme coherence & synergies with other programmes

## Multiannual Strategic R&I Plan

- \* Multiannual orientations and priorities in one document
- \* Areas for partnerships and missions

Strategic discussions with Member States and European Parliament

Consultation with stakeholders

**Work Programmes**



# THANK YOU !

#Bioeconomy

<http://ec.europa.eu/research/bioeconomy>