



Bioeconomy and food systems

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Outline

1) Food systems : an integral part of the Bioeconomy

2) Food systems : at the core of the EU policy agenda

3) R&I policies and tools: key to delivering impact

4) Co-creating R&I actions : a way to boost impact



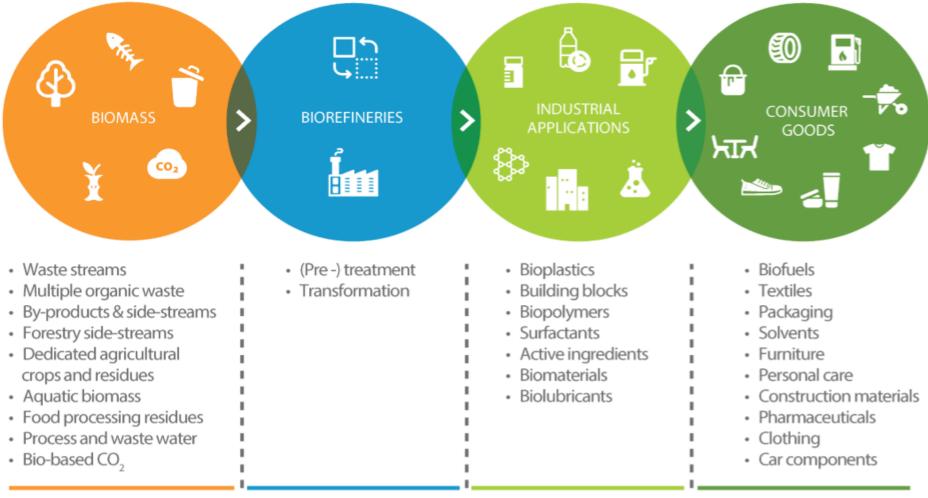
What is the EU's understanding of the Bioeconomy....

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, fibre, bio-based industry, fuels and bioenergy

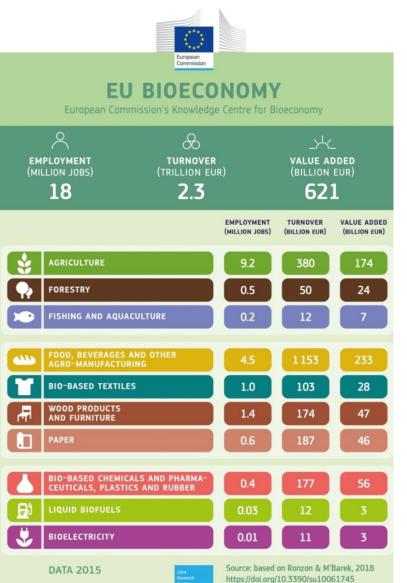


Bio-based industries value chains



Source: www.bbi-europe.eu





Human capital in the EU Bioeconomy

- ~8.2% of the EU's workforce
- ~75% employed in agriculture, food and drink industry
- High job creation potential, in rural, coastal and urban areas, through the growing participation of primary producers and deployment of biobased solutions
- In the bio-based industries 1 million new jobs could be created by 2030
- Education and training plays a key role in realizing this potential by providing necessary skills and improving human capacity for bioeconomy



Farm to Fork Strategy

- Objective: Calling for a transformation of the food systems

 → More sustainable, healthier, climate-resilient food systems,
 providing new business opportunities for actors in the food
 systems.
- What will it include:
 - \rightarrow A <u>Vision Paper</u>
 - \rightarrow <u>Targets</u>
 - \rightarrow An <u>Action Plan</u>
- Publication of the Vision Paper and Action Plan: → Spring 2020
- Scientific Advice Mechanism: will publish an opinion on food systems also in Spring 2020. The knowledge/information included in this report will feed the Farm to Fork Strategy.



Stimulate sustainable production & consumption from 'Farm to Fork'

- Primary production (CAP, sustainable aquaculture, organic farming, pesticides, fertilisers, animal welfare)
- Food processing, distribution, food services (new innovative food and feed products, packaging, environmental footprint...)
- Consumers' empowerment (food information /awareness/ behavioural change/digital means...)
- ✓ Reduce food loss and waste
- ✓ Combat food fraud
- ✓ International dimension (support global transition)





FOOD 2030 & pathways of action

EU policy priorities

(Green Deal including Farm2Fork strategy, CAP, Biodiversity, Circularity, ...)

R&I priorities FOOD 2030

NUTRITION for sustainable and healthy diets

CLIMATE smart and environmentally sustainable food systems



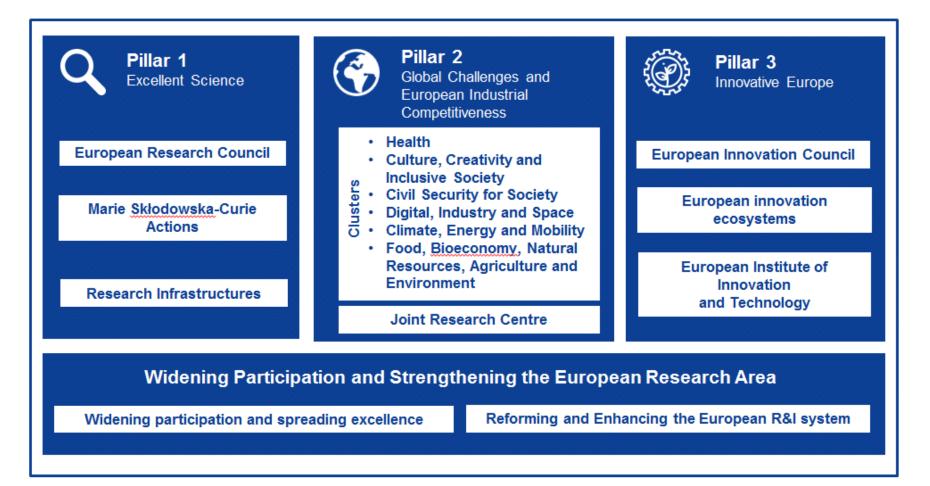
INNOVATION and empowerment of communities

PATHWAYS OF ACTION

- Proteins and dietary shift
- Reducing food waste
- Personalized nutrition & healthy lifestyle
- Food safety systems of the future
- Food from the oceans & from fresh water
- Urban food system transformation
- Food systems Africa
- Microbiome
- Food & Data
- Governance

Define R&I needs per PATHWAY of ACTION

Horizon Europe: Preliminary structure





Steps towards the first Horizon Europe work programme



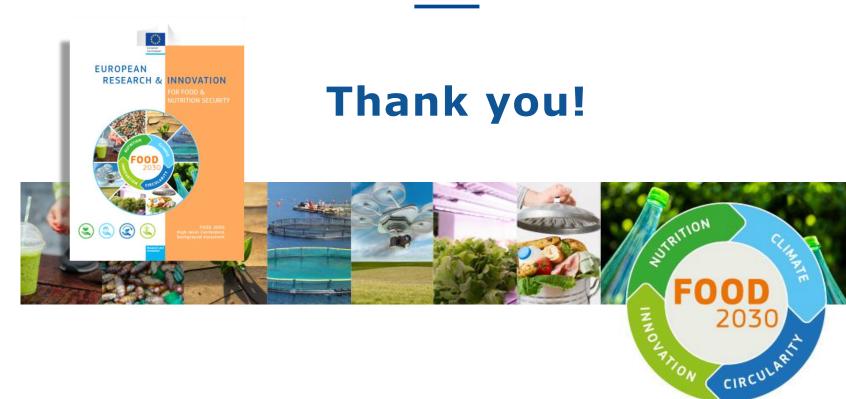
Commission

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- 1) The European Green Deal and from "Farm to Fork": a strong basis for action for transformative change and future-proved competitiveness in agriculture <u>and</u> the food system
- 2) EU's Research and Innovation policies: futureproved agricultural production, nutrition <u>and</u> food systems
- **3) Horizon Europe:** Engage with us in 2020 to boost its impact





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

#FOOD2030EU