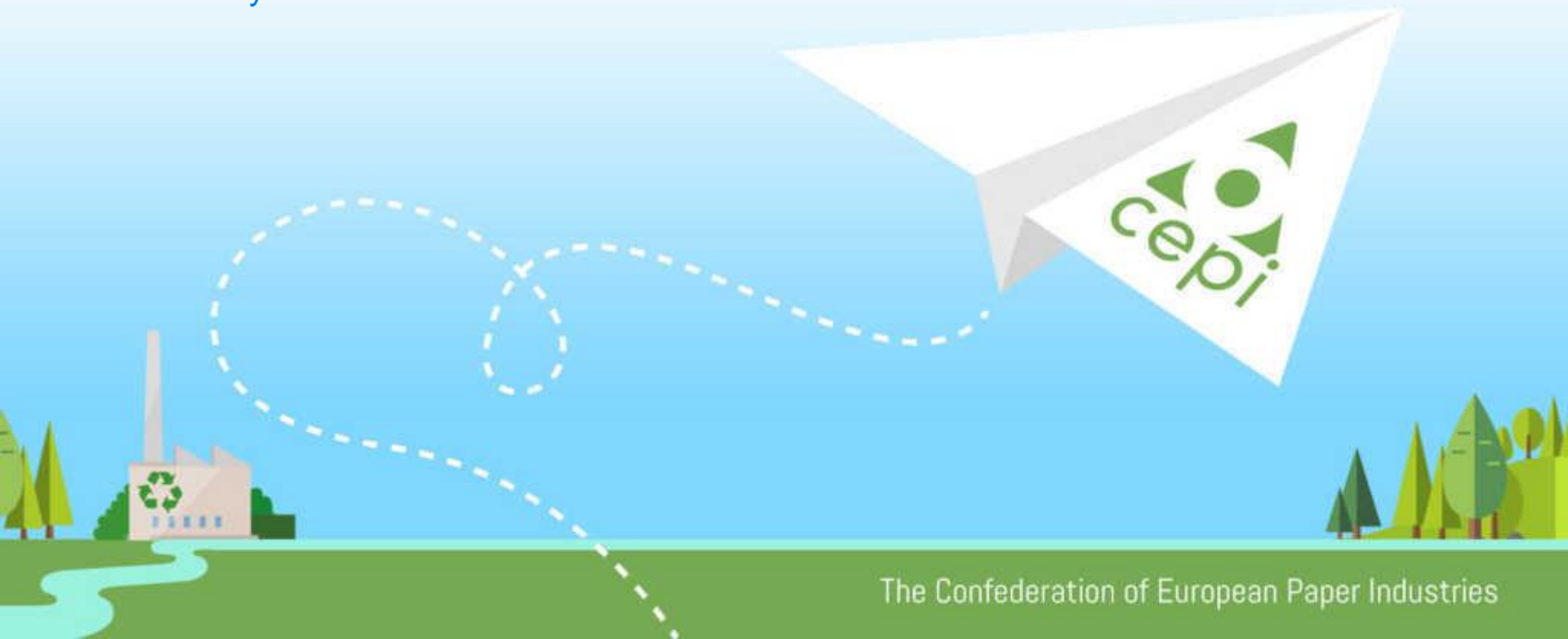


The Bioeconomy in 2019

Bernard de Galembert

Sugar Sector Social dialogue

29 January 2019



Content

1. About the European Bioeconomy Alliance
2. The context
3. What do we mean in the EU
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6. A few policy messages

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Creation of the European Bioeconomy Alliance (EUBA)

Launch

February 2015 in the European Parliament

Vision

A competitive, innovative, energy secure and sustainable Europe : leading the transition towards a **post-petroleum** society while **decoupling** economic growth from resource depletion and environmental impact.



European
Bioeconomy
Alliance



Members of the Alliance

The European Bioeconomy Alliance is an informal alliance of leading European organisations representing the agricultural and forestry innovative value chains of the bioeconomy:

- BIC – Bio-based Industries Consortium
- CEFS – European Association of Sugar Producers
- CEPF – Confederation of European Forest Owners
- CEPI – Confederation of European Paper Industries
- COPA-COGECA – European Farmers and European Agri-Cooperatives
- ePURE – European Renewable Ethanol Producers Association
- EuropaBio – The European Association for Bioindustries
- European Bioplastics – European Bioplastics Association
- FTP – Forestry Technology Platform
- PFP – Primary Food Processors
- Starch Europe – European Starch Industry Association



European
Bioeconomy
Alliance



Objectives of the European Bioeconomy Alliance

- To bring the stakeholders of the value chain together.
- To continue the work started of promoting the bioeconomy as members of the Public Private Partnership on Bio-based industries.
- To make bioeconomy a priority at EU level.
- To transmit common messages on the importance of the bioeconomy for EU economy.
- To come with proposals of policy asks and tools to boost bioeconomy in EU.



European
Bioeconomy
Alliance



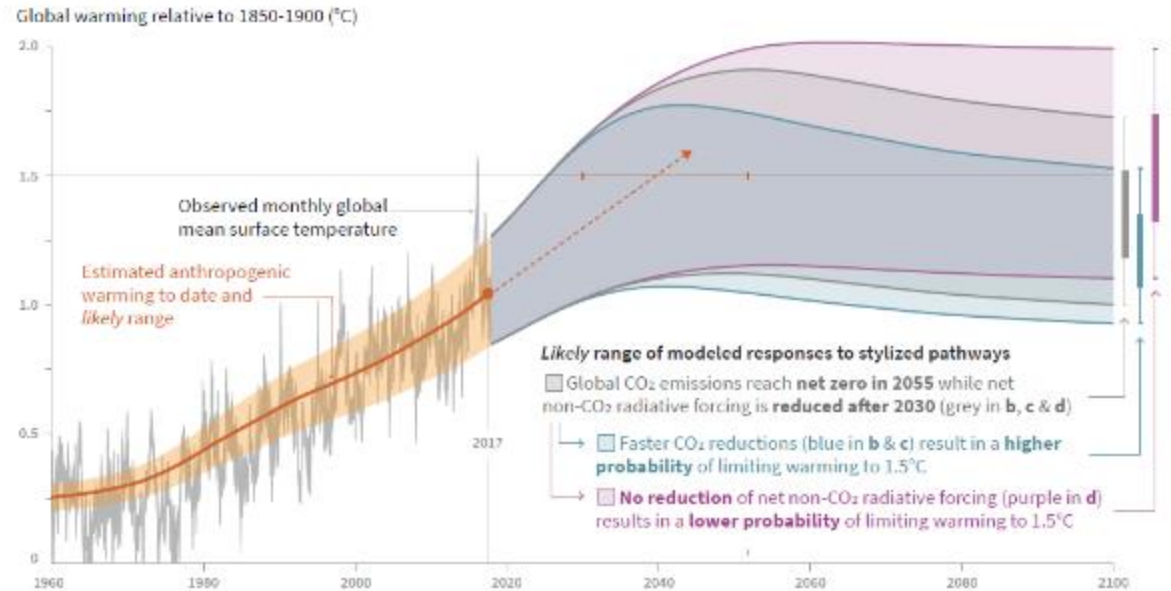
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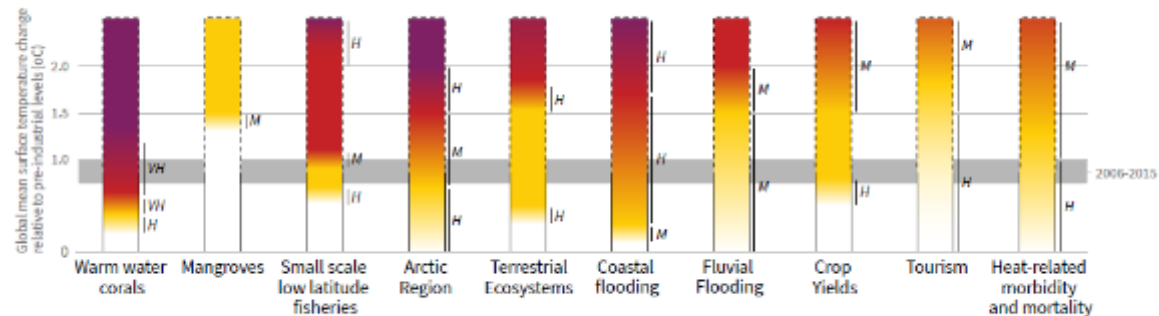
The reality



The reality

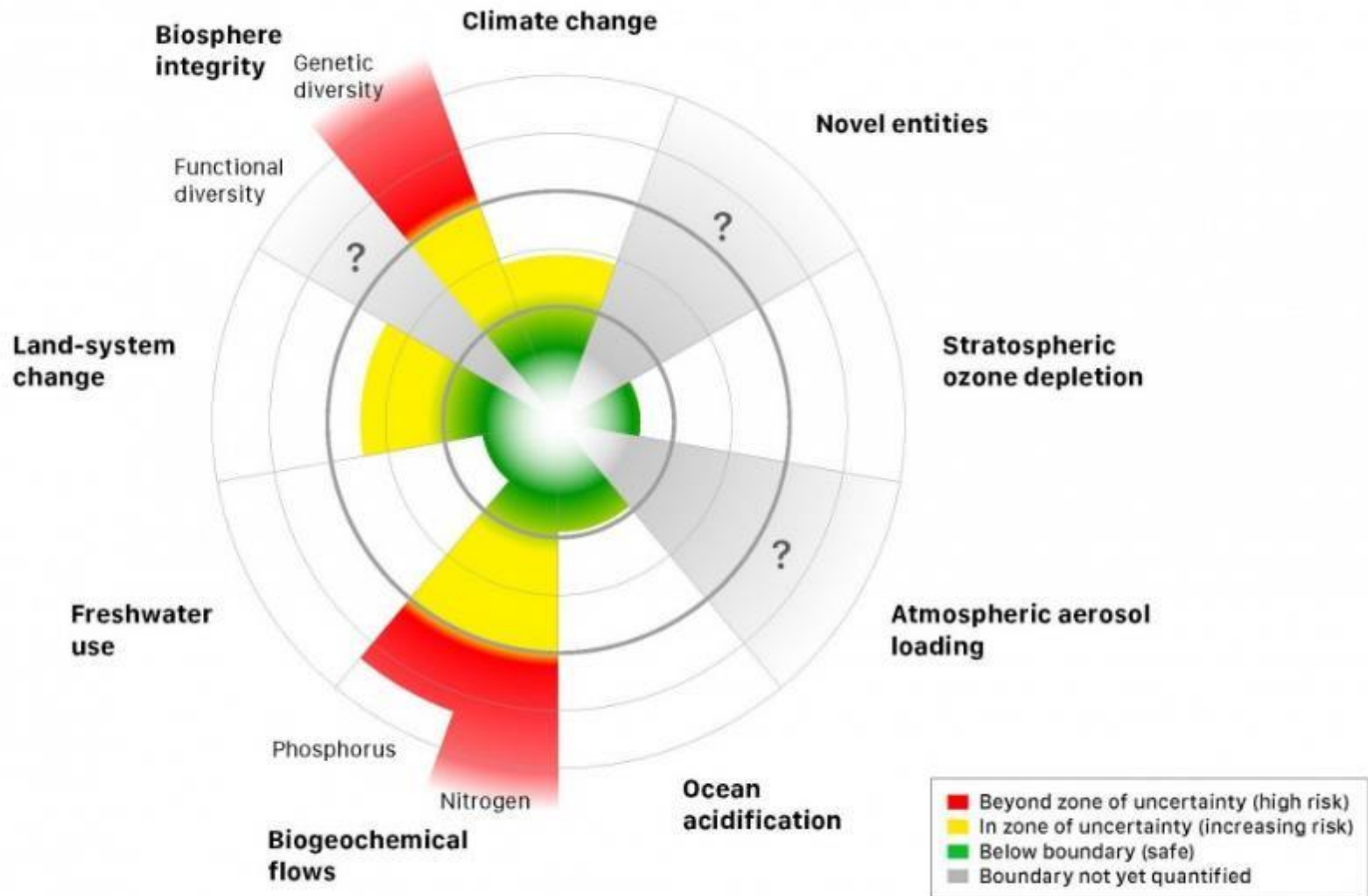


Impacts and risks for selected natural, managed and human systems



Confidence level for transition: L=Low, M=Medium, H=High and V=Very high

The reality



Content

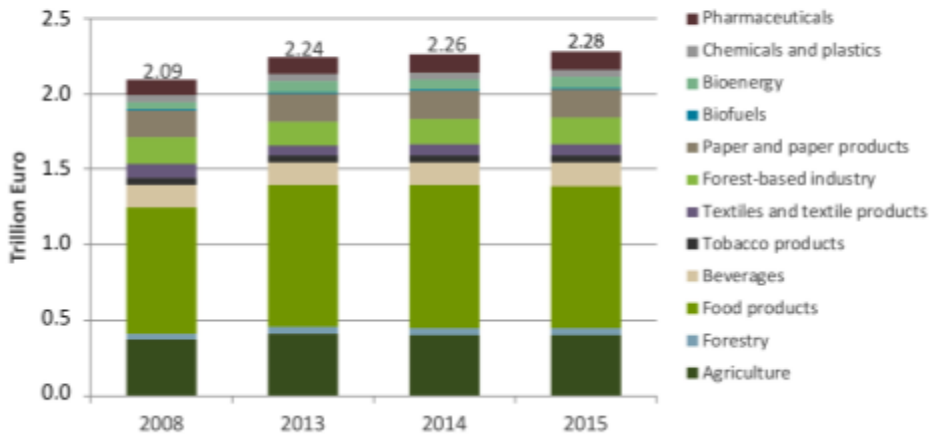
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What is “bioeconomy” in the EU?

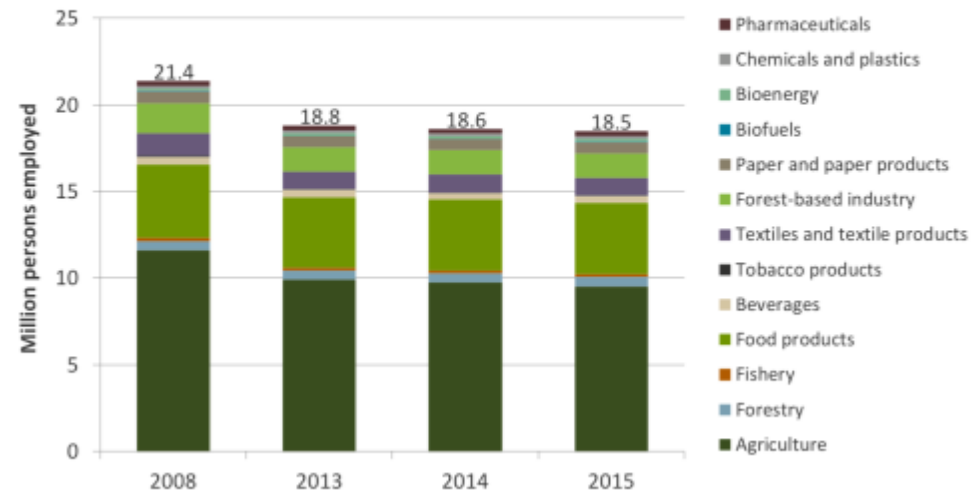
- All sectors and systems that produce, process and use biological resources
 - > Ecosystems on land (fields, forests) and sea
 - > Primary production systems (agriculture, forestry, fisheries)
 - > Waste/side-streams collection and recycling
 - > Food, feed, fibre, chemicals, energy ...
- More than biotech
- ≠ “organic”

The bioeconomy in figures

Turnover in the bioeconomy in the EU-28, 2008-2015

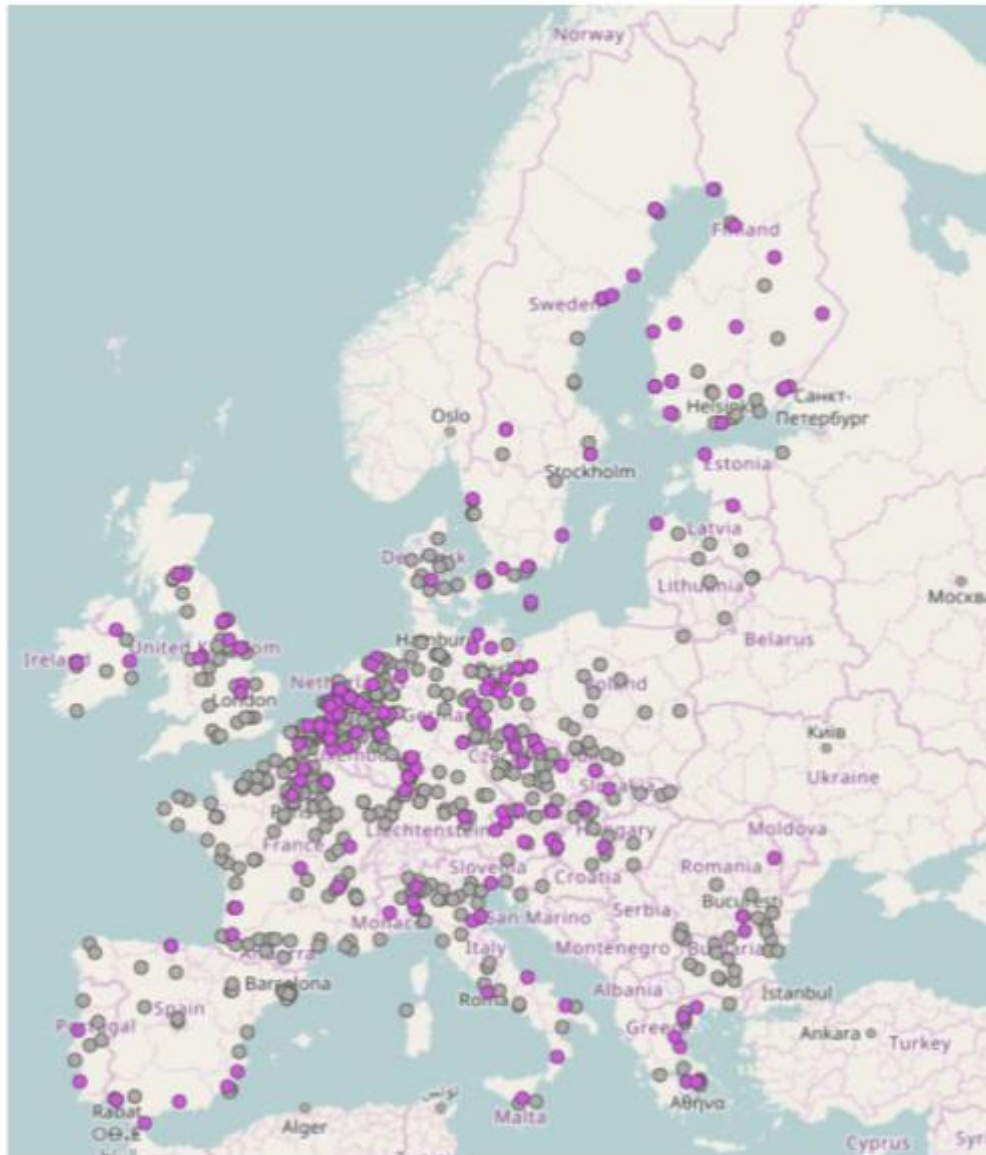


Employment in the bioeconomy in the EU-28, 2008-2015



Biorefineries at the core of the bioeconomy

Map of biorefineries producing bio-based chemicals, liquid biofuels and composites and fibres in the EU



■ Integrated biorefineries (bio-based products and energy) ■ Non-integrated biorefineries

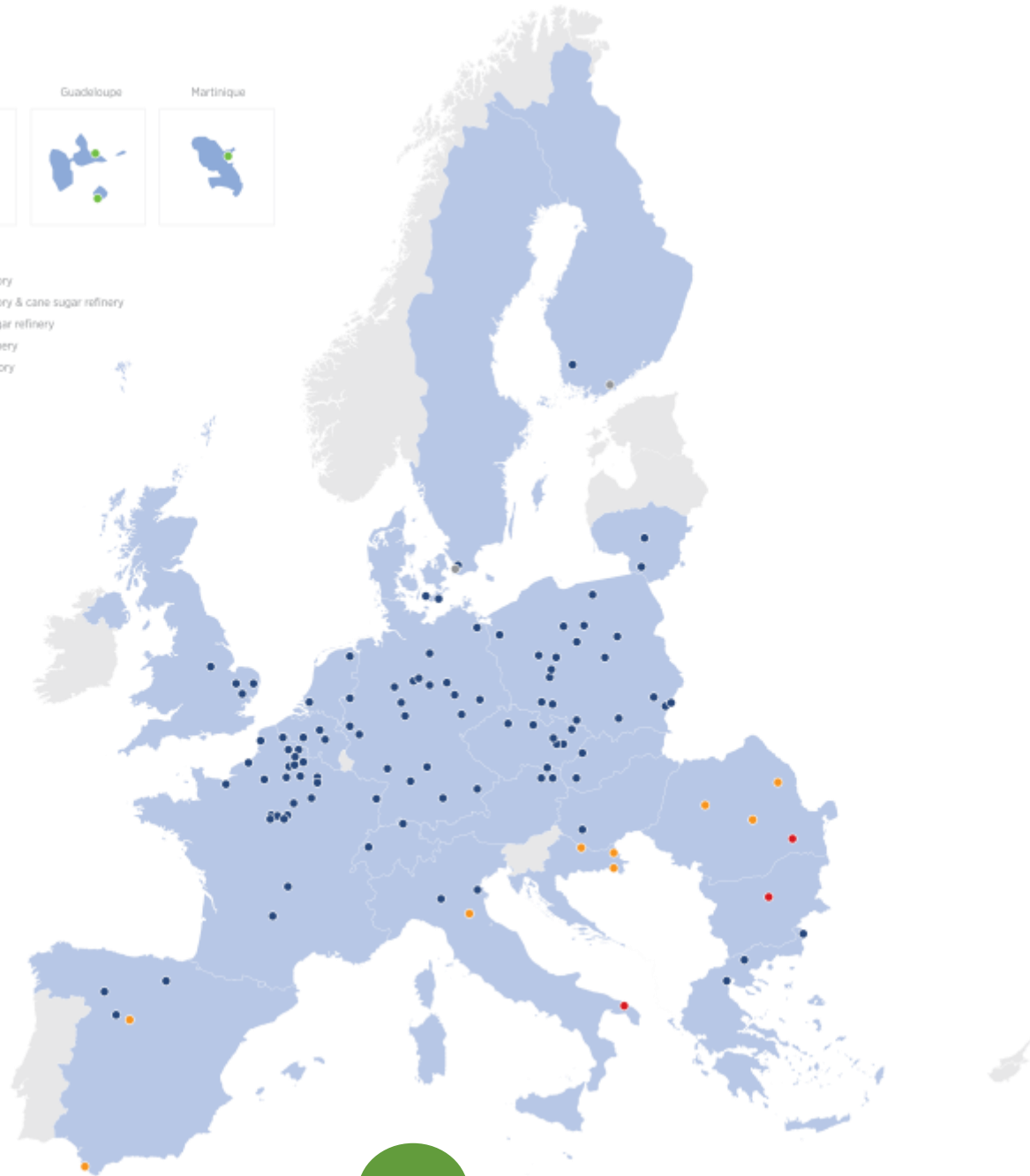
Source: JRC 2018



EU Sugar



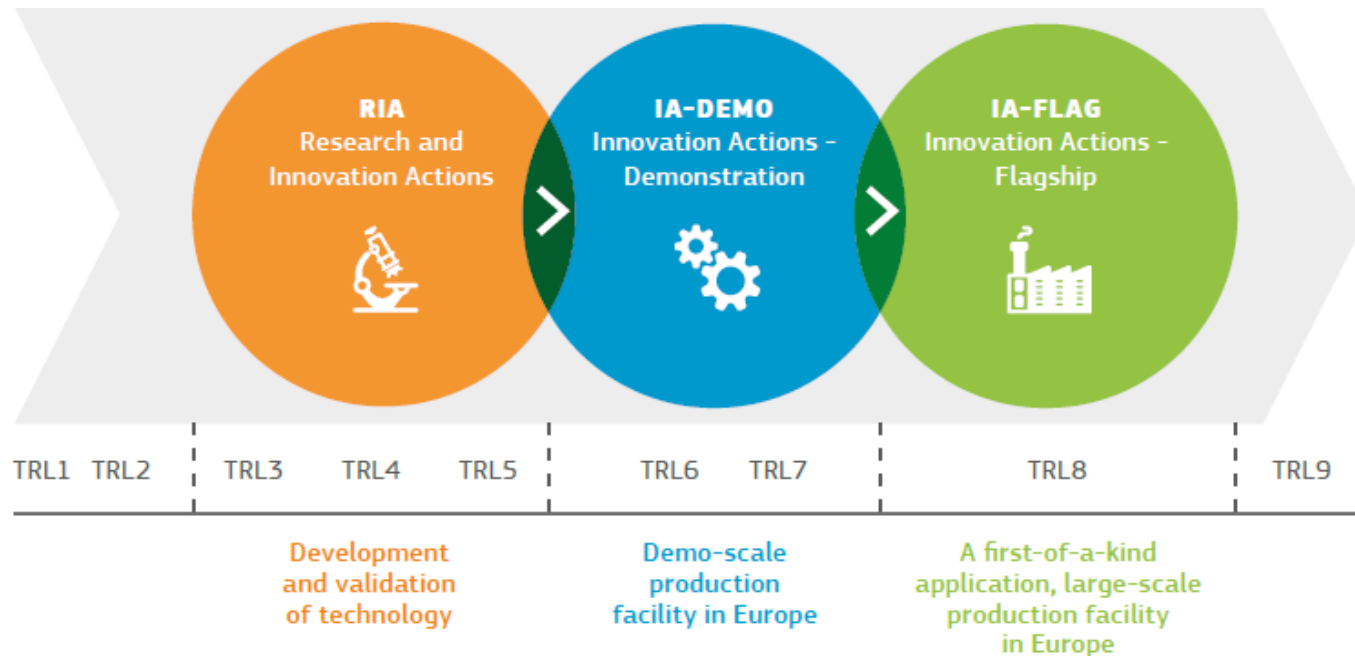
- Beet sugar factory
- Beet sugar factory & cane sugar refinery
- Cane & beet sugar refinery
- Cane sugar refinery
- Cane sugar factory



Bio-based Industries JU



- Institutional public-private partnership
- € 3.7 billion (EU: 975 mio – Private: 2.7 bio)
- 800 participants



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Key elements

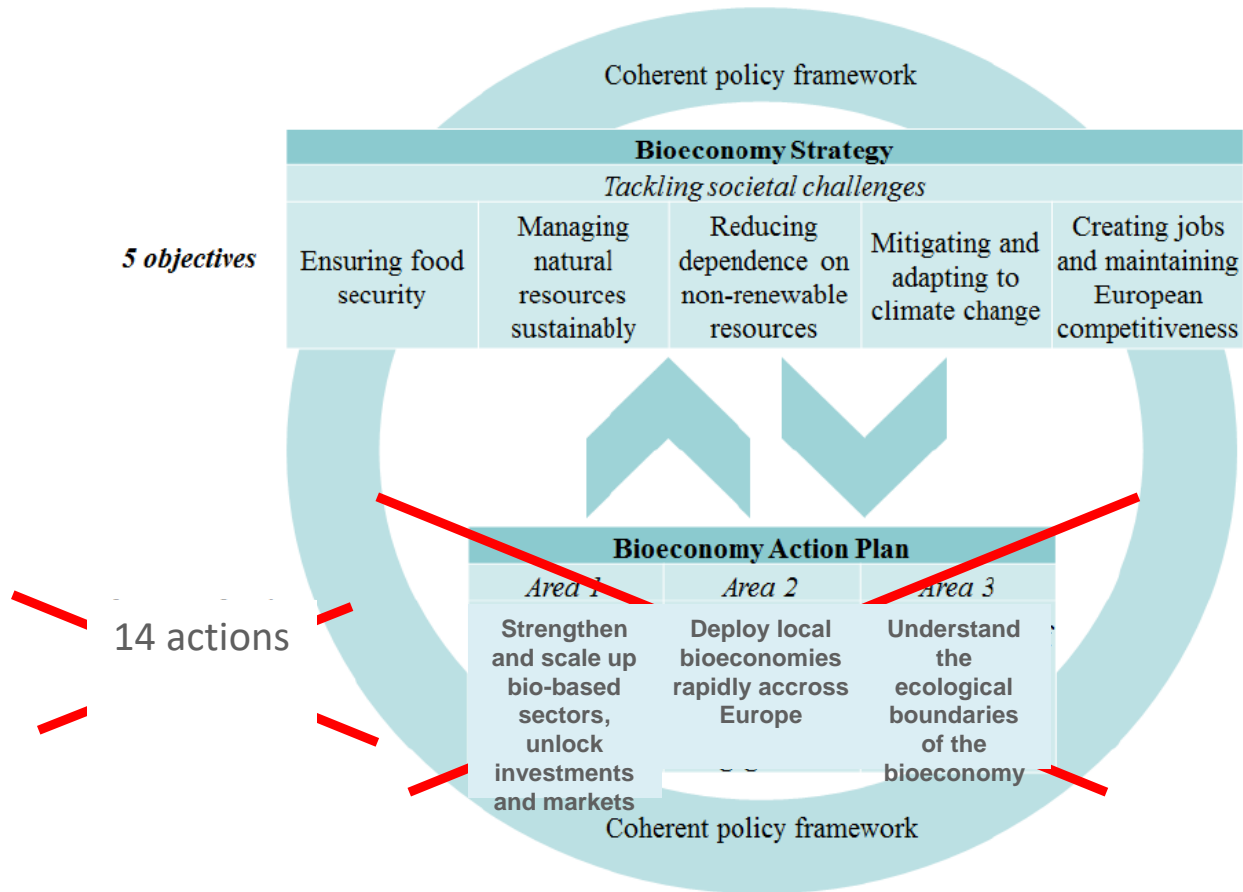
Working assumptions

- Natural resources are limited
- The bioeconomy must be sustainable and circular

Potential benefits by 2030

- 1 million new jobs
- 300 new biorefineries
- 50% less food waste
- zero-plastic oceans
- Land degradation neutrality

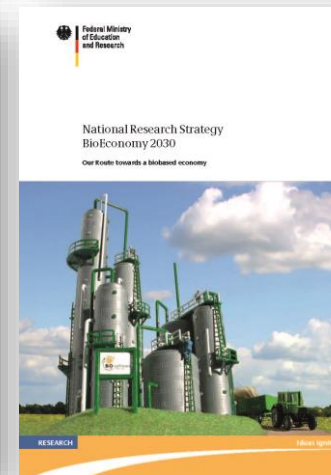
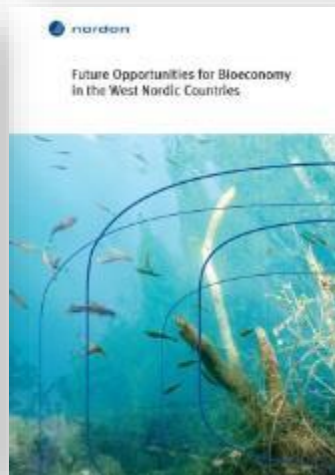
Objectives and priority areas



3 pillars and 14 actions

Boost bio-based sectors, investments and markets	Boost local bioeconomies	Care for nature and the environment
Mobilise stakeholders, in development and deployment of bio-based solutions	Strategic deployment agenda for sustainable food and farming systems, forestry and bio-based production	Knowledge on the bioeconomy, including on biodiversity and ecosystems.
EUR 100 mio Circular Bioeconomy Thematic Investment Platform	Pilot actions to support local bioeconomy development	Increase observation, measurement, monitoring and reporting capabilities
Unlock and guide the deployment of bio-based innovations	EU Bioeconomy policy support facility and a European Bioeconomy Forum	Good practices to operate the bioeconomy within safe ecological limits
Promote standards, labels and market uptake of bio-based products	Promote education, training and skills	Enhance the benefits of biodiversity-rich ecosystems in primary production
New sustainable biorefineries		
Substitutes to fossil-based materials/plastics		

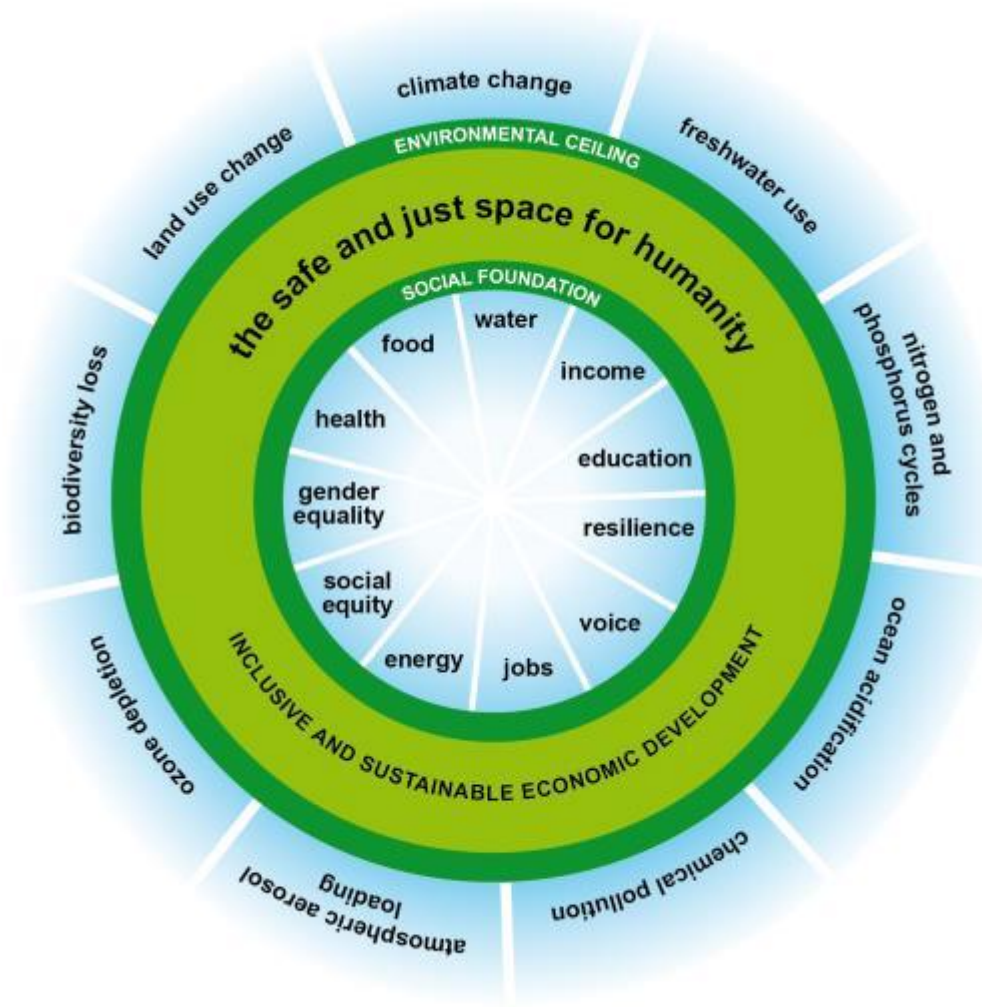
National strategies



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Operate in a just and safe space ...

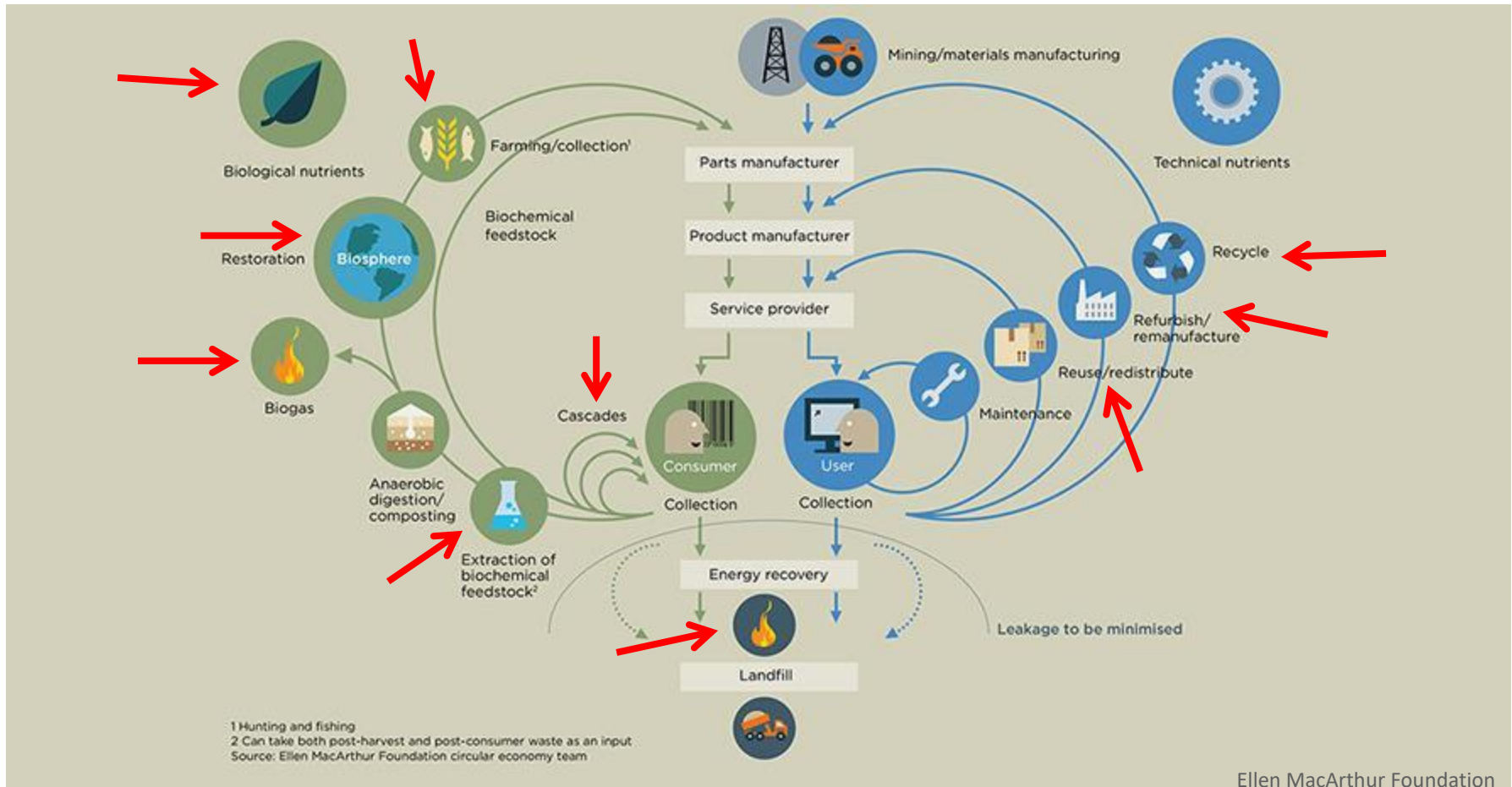


... to meet the SDGs (examples)

- Use of Biostimulants; benefits of co-products from biofuel production (**SDG 2**)
- Woody biomass residues as energy feedstock - project 'uP running'; use of enzymes to turn household waste to biogas (**SDG 7**).
- Modern biorefinery using of locally grown thistle – MATRICA project (**SDG 8**)
- 1,000 new jobs and up to €325 million additional private investments – AGRICHEMWHEY project (**SDG 9**)
- Bio-based beverage carton manufactured entirely from renewable materials - Tetra Rex® Bio-based (**SDG 12**)
- Timber frame for a carbon-neutral 10 story complex in London (**SDG 13**)
- From brownfields to sustainable agricultural production – INTENSE project (**SDG 15**)
- BBI JU and partnerships (**SDG 17**)



Bioeconomy is circular by nature



→ We are here ...

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Enabling conditions ...

- Mainstreaming the bioeconomy
- Raw materials availability and competition (virgin, recycled and waste)
- Sustainable sourcing
- Reduced/zero land-use impacts
- Low to No Regulatory risk
- Investments support/de-risking
- Carbon neutrality/benefits
- Facts and data vs. risk of deceptive claims
- Awareness raising and communication

... to deliver



... and much more



Thank you

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