

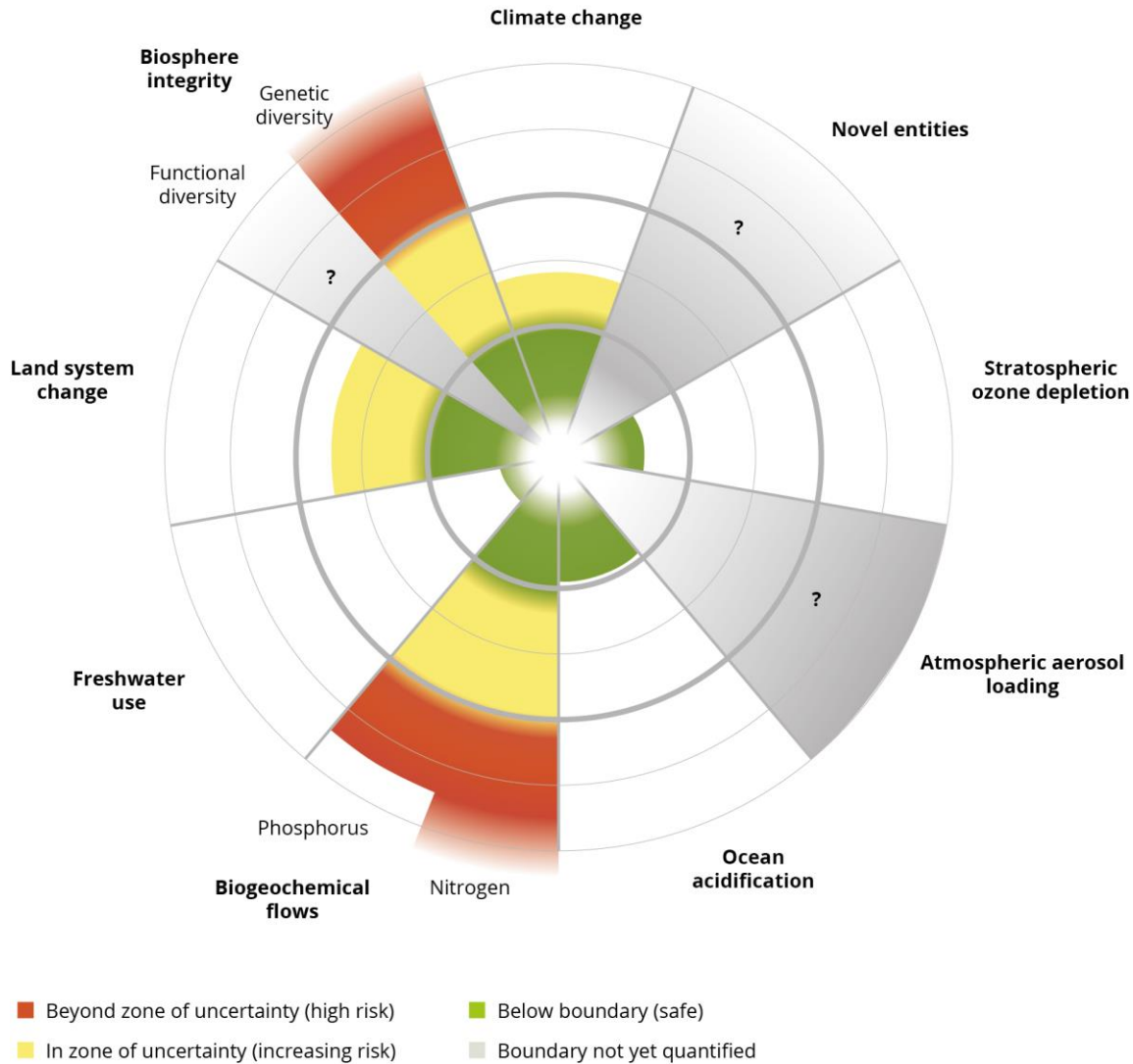


Circular Bio-economy: the pathway to sustainability, recovery and resilience

Bioregio event
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The grand challenges



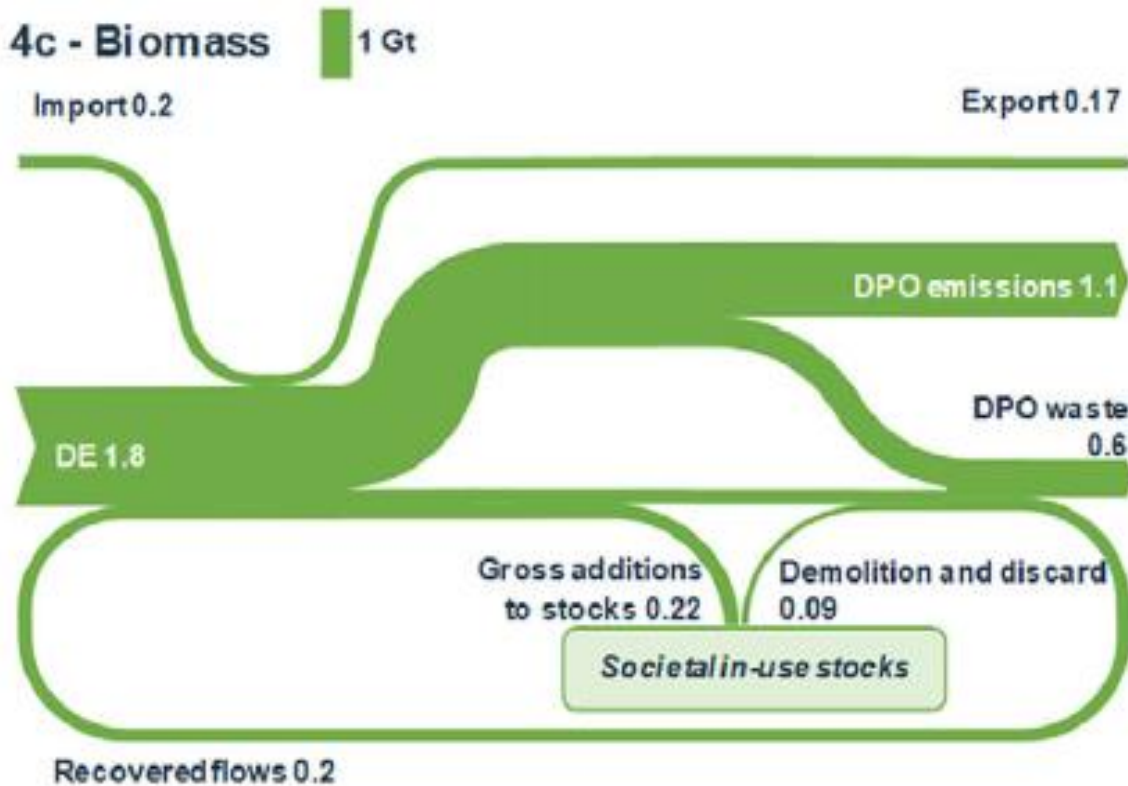
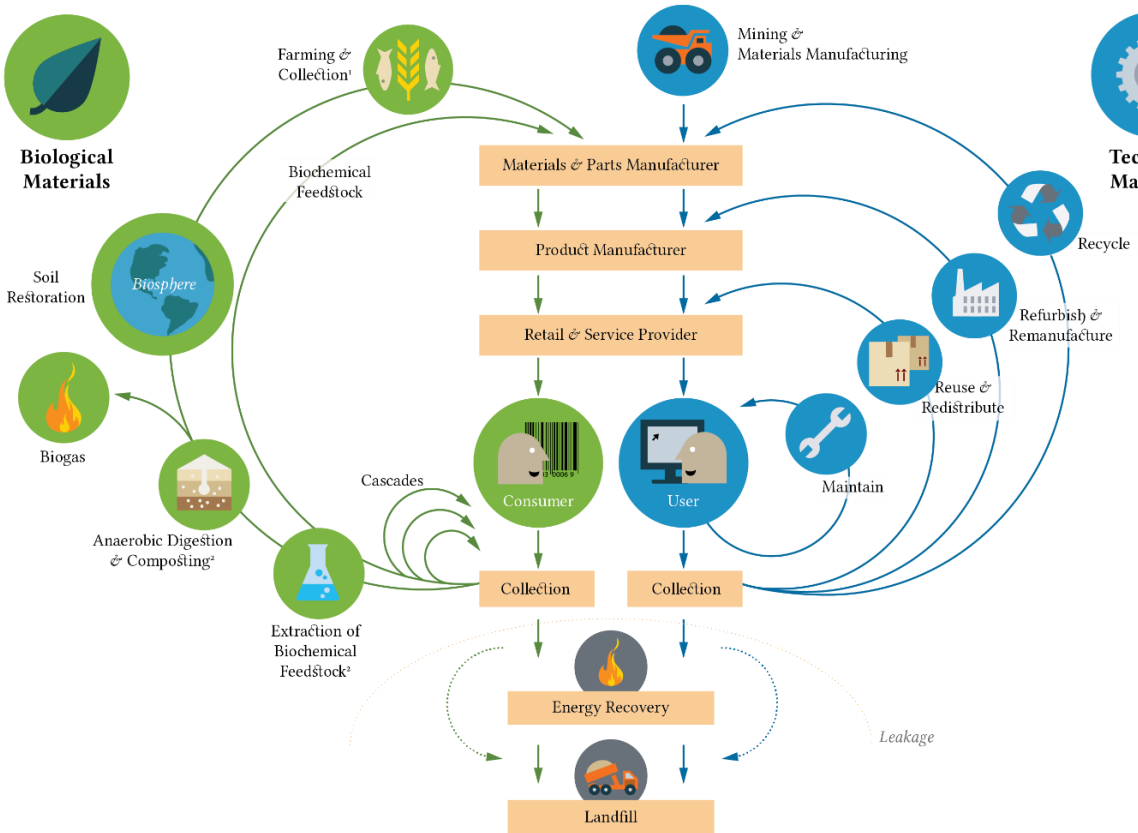
EU Green Deal and circular bioeconomy



Bio-based solutions

- Carbon mitigation
- Circularity
- Zero pollution
- Ecosystems
- Fair economic development
- Recovery from covid crisis
- EU resilience and authonomy

Circular bio-economy: Vision vs Reality



Untapped potential

Research deficit

- Slow uptake of advances in life sciences
- Disparities in R&I capacities across EUrope

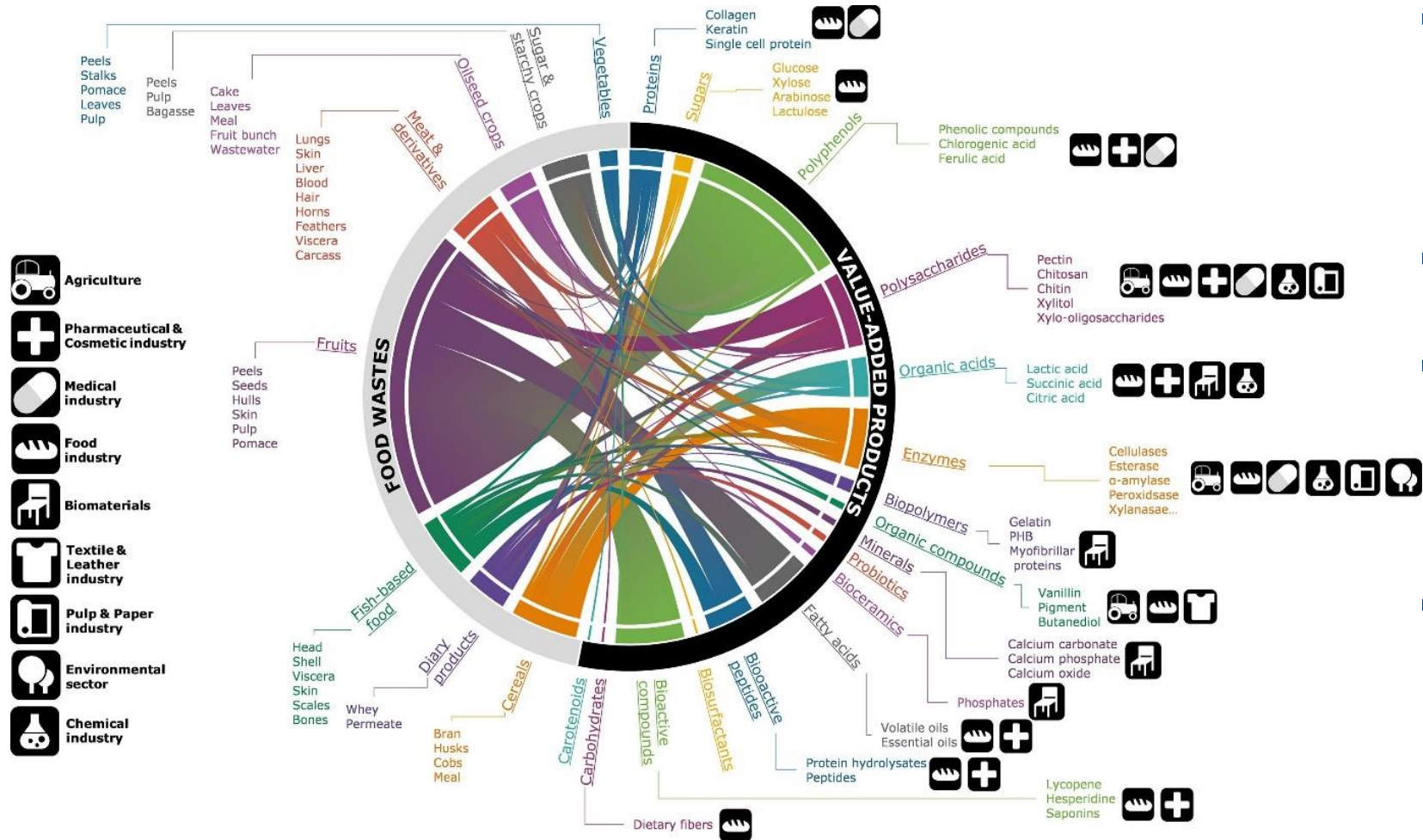
Deployment deficit

- Uneven level playing field for bio-based products
- Slow uptake of innovation by enterprises
- Risk for investors

Environmental deficit

- Projects do not meet expectations due to disregarded environmental impacts
- Unsustainable sourcing of biomass

Example: food industry waste



- Food industry waste 30 Mt/year with environmental impact
- Feedstock for biorefining
- Existing markets for bio-based chemicals and products
- Just 4 agricultural waste streams: Potential for 200 economically viable biorefineries

Policy response

- **EU Bioeconomy Strategy**
- **National Bioeconomy Strategies**
- **SCAR**
- **BioEast**
- **EU Bioeconomy Policy Forum**

ACTION PLAN

Strengthen and scale up the bio-based sectors, unlock investments and markets

- mobilise stakeholders in developing and deploying sustainable biobased solutions
- launch a €100 million circular bioeconomy thematic investment platform
- analyse enablers and bottlenecks for the deployment of bio-based innovations
- promote and develop standards
- facilitate the deployment of new sustainable biorefineries
- develop substitutes to fossil-based

Deploy local bioeconomies rapidly across the whole of Europe

- launch a strategic deployment agenda for sustainable food and farming systems, forestry and bio-based products
- launch pilot actions for the deployment of bioeconomies in rural, coastal and urban areas
- support regions and EU countries to develop bioeconomy strategies
- promote education, training and skills across the bioeconomy

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 financial support to bio-based innovation

Horizon Europe

- Grants to RIA and IA
- Mainly R&I stakeholders from EU and associated countries
- €50-100M annually
- Biennial work programmes

Circular Bio-based Europe Joint Undertaking

- PP partnership with Bio-based Industry Consortium
- Mainly industrial stakeholders
- €1B grants leveraging 1-3 B of private investment
- RIA, IA (demos and flagships)

Investment instruments

- InvestEU (general and thematic instruments)
- ECBF- a 300M blending instrument (and possible successor fund)

Thank you for your attention

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