

Sherpack Final Workshop



**Strategic Innovation and Research
Agenda of the biobased industry**

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Strategic Innovation and Research Agenda bio—based industry

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My story line today

1. A new Strategic Innovation and Research Agenda (SIRA) of the bio-based industry
 - Its objectives
 - How produced
 - Its role in a public-private partnership with the Commission
2. The SIRA2030
 - Its status
 - Its use
3. Plastics in the SIRA2030
 - Its focus
 - Its actions
4. The bio-based industry to realise the SIRA2030
 - BIC 2.0

The sector's vision: the circular bio-society in 2050

Need a roadmap to realise it



By 2050, Europe will have a **sustainable and competitive bio-based industry** providing jobs and growth that contribute to a **circular bio-society**. In this circular bio-society, informed citizens choose a **sustainable way of life**, supporting an economy that couples economic growth with **societal well-being and respect for the environment**.

Mobilised stakeholders support the Vision 2050

BIC coordinates creation and update

The Vision 2050 is the result of the collective work by the Bio-based Industries Consortium (BIC) and its members, the BBI JU's advisory bodies: the States Representatives Group and Scientific Committee, and the following organisations:

- **European Bioeconomy Alliance (EUBA) and its members:**
 - ✓ (Confederation of European Forest Owners (CEPF);
 - ✓ Confederation of European Paper Industries (CEPI);
 - ✓ European Association for Bioindustries (EuropaBio);
 - ✓ European Association of Sugar Producers (CEFS);
 - ✓ European Bioplastics (EUBP);
 - ✓ European Farmers and European Agri-Cooperatives (Copa-Cogeca);
 - ✓ European Renewable Ethanol Producers Association (ePURE);
 - ✓ European Starch Industry Association (Starch Europe);
 - ✓ European Vegetable Oil and Protein Meal Industry (FEDIOL);
 - ✓ Forest-based Sector Technology Platform (FTP)
 - ✓ Primary Food Processors (PFP))
- **European Agricultural Machinery Industry (CEMA)**
- **European Chemical Industry Council (Cefic)**
- **European Technology Platform 'Food for Life'**
- **European Technology Platform for Sustainable Chemistry (SusChem)**

The Institute for European Environmental Policy (IEEP) has been consulted in this process.

Towards the Vision 2050: the SIRA 2030

Intermediate milestones

Strategic Innovation & Research Agenda (SIRA): the roadmap towards realisation of the **four** pillars of the vision with engaged stakeholders

primary producers, industry, academia, EU, society

1

Foster food security for a growing world population and meet demand for sustainable products

Through integrated, efficient production of food, feed, bio-based products, services and energy with minimal environmental impact.

2

Contribute to a sustainable planet

With carbon-neutral value chains, using natural resources optimally, protecting the environment, adding value to society and the economy.

3

Create jobs and growth in the circular bioeconomy

With value chains that mobilise available and potential local feedstock, making products that meet demand and benefit all actors.

4

Achieve a circular bioeconomic society

Through effective networks of innovation and knowledge centres, connecting industrial actors, investors and municipalities across boundaries of geography and competence, with informed and participating citizens.

Towards new version of SIRA 2030: build on feedback - *draft*

For broad support & agreement

Vision 2050
aspirations

By 2050, Europe will have a sustainable and competitive bio-based industry providing jobs and growth that contribute to a circular bio-society: informed citizens, sustainable way of life, an economy that couples economic growth with societal well-being and respect for the environment

Foster food security

Sustainable planet

Jobs and growth

Circular bioeconomic
society

toward
ds

Contribute to EU Green Deal; EU LT vision 'A Clean planet for all'; Paris Agreement, UN SDGs

INTEGRATE
FEEDSTOCK
SUPPLIERS
TO FOSTER FOOD
SECURITY AND
ENHANCE
BIODIVERSITY

ACCELERATE
COMMERCIALISATIO
N OF INNOVATIVE
PROCESSING
TO CREATE JOBS AND
GROWTH

INTEGRATE DEMAND
FOR BIO-BASED
SOLUTIONS
TO REALISE A
CLIMATE-NEUTRAL
CIRCULAR ECONOMY

ENGAGE
CONSUMERS AND
CITIZENS
TO ACHIEVE A
CIRCULAR
BIOECONOMIC
SOCIETY

HORIZONTAL SUPPORT:

- Knowledge transfer – education – training
- Interact with educational institutions and students to ensure skills for the future
- Align / contribute / complement / synergy with EU regulations, programmes
- €

SIRA 2030 paths /
strategic
orientations for
BIO-BASED
OPERATIONS

Preliminary new structure for SIRA2030

Realising a future-fit circular bio-society in Europe

Executive summary

Chapter 1: Build on BBI JU achievements to maintain momentum

Chapter 2: Pursue industry's 2050 ambitions to contribute to EU's climate neutrality goal by 2050

Chapter 3: Integrate feedstock suppliers to foster food security and enhance biodiversity

Chapter 4: Accelerate commercialisation of innovative processing to create jobs and growth

Chapter 5: Deploy bio-based solutions to realise a climate-neutral circular economy

Chapter 6: Engage consumers and citizens to achieve a circular bioeconomic society

Chapter 7: Interact with educational institutions and students to ensure skills for the future

Chapter 8: Monitor the progress and impact to meet 2030 goals

Chapter 9: Complement and cooperate with major EU programmes to achieve synergy

Chapter 10: Realise financial commitments to make the partnership succeed

Appendices: including specific technological and non-technological areas to support bio-based value circles in Europe

SIRA2030: status and its use

Target for the **final version SIRA2030** agreed with the Commission: October 2020

SIRA2030: the basis for the new PPP for bio-based industries

- with annual priority papers and work programmes (or every 2 years – TBA)
- **Priority Paper 2021-2022:**
 - BIC's industry members in the lead
 - Include all stakeholders
 - March 2021: final version agreed with the Commission (TBC)
- (small) **AWP2021:**
 - April-June 2021: and agreed with the Commission (TBC)
- **2021 call:**
 - May-June 2021 (TBC) and run till end October (TBC);
 - November-December 2021 evaluation and results announcement (TBC)

Bio-based industry: contribute to the European green recovery

'Circular Bio-based Europe' (CBE) under Horizon Europe (2021-2027) as continuation of BBI JU under Horizon 2020 (2014-2020)

- With the Bio-based Industries Consortium (BIC) and the European Commission (EC)

Realise ambitions of Vision 2050: 'The circular bio-society in 2050'

- SIRA2030: roadmap towards 2050, with milestones for 2030

CBE key objectives:

- Long-term **sustainability** of the society in Europe
 - European climate targets for 2030 towards **climate neutrality** by 2050: European Green Deal and Horizon Europe
- Increase research, up-scaling and full-scale deployment actions towards sustainable, competitive solutions providing **health** and **income**
 - **Circular** use of biomass, residues and waste: Circular Economy Action Plan and UN SDGs
 - Focus on **regional** approaches
- Contribute to a circular economy that operates within the planetary boundaries

Accelerate investments towards commercialisation:

- Budget share for Demonstration and Flagship projects 75%

Need: **strong industry** across Europe partnering with **primary and market sectors**, **academia** and **society**, working with **regions** on their strategies and strengths: *quadruple helix*

Plastics in the SIRA2030

Packaging: major application area

The Waste Framework Directive will lead to more 'waste', including plastics waste recycled to the bio-based industry

- By 31 December 2023: bio-waste is separated, or recycled at source, or collected separately (not mixed with other types of waste)
- **Extended producer responsibility** mandatory for packaging

The circular bioeconomy action plan:

- The *key product value circles* include **packaging and plastics** (and textiles, construction and buildings, food, water and nutrients)
 - Design for reuse and recyclability of packaging
 - Increase uptake of recycled plastics; restrict use of microplastics
 - Policies to support the use of bio-based plastics, biodegradable or compostable plastics

The SIRA2030 lays the basis for an increased focus of the bio-based industry on circularity and sustainable end of life of plastics

- See a.o. chapter 5.4.4 on 'biodegradable – compostable bio-base products'

BIC 2.0 – supporting an innovative, sustainable and competitive bio-based industry in Europe

VISION

The innovative, sustainable and competitive bio-based industry in Europe is the global leader in a circular bio-society

MISSION

We connect industry, academia, regions and citizens to transform bio-based feedstocks into novel sustainable products and applications. We create circular bioeconomy ecosystems through investments, innovation and know-how.

1. The public-private partnership with the EC

2. BIC membership

3. Connect actors for bio-based operations across Europe

4. Mobilise public and private finances

5. Provide business and market intelligence

6. Education, skills and competences

7. Strategic communication & awareness

8. Public affairs

Thank you !