

Power4Bio project event

Bioeconomy Innovation week

3 March 2021

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Supporting bioeconomy policymaking

Factsheet



Launched Nov 2020



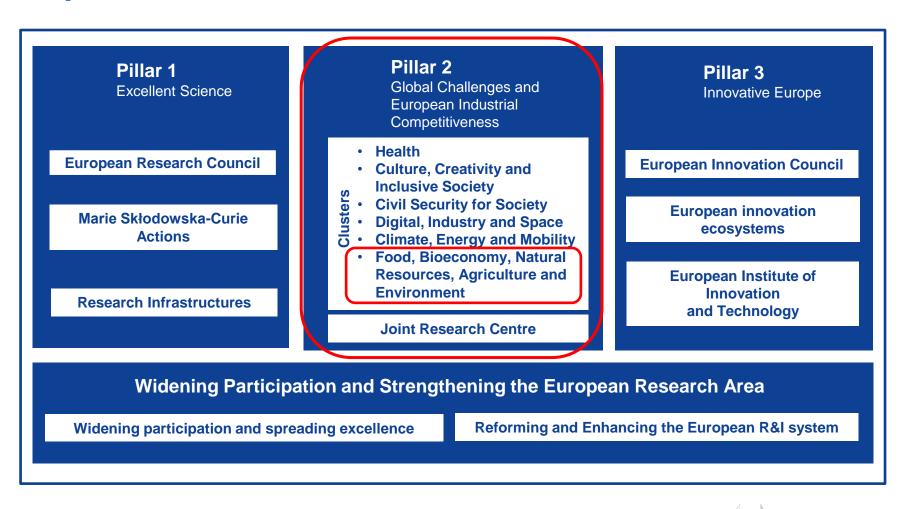
- High-level and Expert-level representation from 27 MS, as well as the EC, EP, EESC and CoR
- Proposed Working Group on Knowledge for Bioeconomy
- Capacity building, knowledge and best-practice exchange

European Commission

Horizon Europe - Structure



(2021 - 2027)





CLIMATE PACT AND CLIMATE LAW

Destination 5: Land, oceans and water for climate action

PROMOTING CLEAN ENERGY



INVESTING IN SMARTER, MORE SUSTAINABLE TRANSPORT

PROTECTING NATURE

FROM FARM

TO FORK



Cluster 6

The European **Green Deal**



ELIMINATING POLLUTION

STRIVING

FOR GREENER INDUSTRY

> **Destination 4:** Clean environment and zero pollution

Destination 3: Circular economy and

bioeconomy sectors

LEADING THE GREEN CHANGE GLOBALLY



MAKING HOMES ENERGY EFFICIENT



FINANCING GREEN **PROJECTS**

Destination 6: Resilient, inclusive, healthy and green rural, coastal and urban communities

ENSURING A JUST TRANSITION FOR ALL

Destination 7: Innovative governance, environmental observations and digital solutions in support of the Green Deal

All Destinations

Destination 2: Fair, healthy and environmentally-friendly food systems from primary production to consumption

Destination 1: Biodiversity

and Ecosystem Services



EU Bioeconomy Strategy Action

1.3 Study and analysis of enablers and bottlenecks and provide voluntary guidance to the deployment of bio-based innovations



STUDIES ON SUPPORT TO R&I POLICY IN THE AREA OF BIO-BASED PRODUCTS AND SERVICES -

Lot 1 "Carbon economy"

Lot 1 study:

- EU budget: ca. 500 K EUR
- Duration: 14 months (Jan 2020 Feb 2021)
- Contracted by: COWI AS, Universiteit Utrecht, Nova-Institut GmbH

Objectives:

- Understand the carbon economy to ensure resource-efficient sourcing and use of carbon (WP1)
- Identify potential ways in which it can be addressed (WP2)
- Conduct regulatory analysis including cross-product barriers and drivers (WP3)
- Identify the role of R&I in addressing the challenge at global, European, national, regional and urban levels case studies for EU cities/regions (WP4)

State-of-play:

- Pre-final study report received on 16 December 2020
- Pre-final study report presentation and meeting on 19 January 2021
- Final study report by 26 January 2020
- 4th (final) progress meeting and final report presentation: 3 February 2021



EU Bioeconomy Strategy Action

1.3 Study and analysis of enablers and bottlenecks and provide voluntary guidance to the deployment of bio-based innovations



STUDIES ON SUPPORT TO R&I POLICY IN THE AREA OF BIO-BASED PRODUCTS AND SERVICES -

Lot 2 "Life and biological sciences and technologies as engines for bio-based innovation"

Lot 2 study:

- EU budget: ca. 500 K EUR
- Duration: 14 months (Jan 2020 Feb 2021)
- Contracted by: Fraunhofer Institute, BTG Biomass Technology Group, iCons

Objectives:

- Identify and analyse Top 50 bio-based innovations (WP1)
- Assess maturity and development opportunities (WP2)
- Stakeholders mapping and assessment (WP3)
- Policy mapping and assessment (WP4)
- Scenarios and policy recommendations for Europe in 2030 (WP5)

State-of-play:

- Pre-final study report received on 17 December 2020
- Pre-final study report presentation and meeting on 11 January 2021
- Final study report by 29 January 2020
- 4th (final) progress meeting and final report presentation: week 8-12 February 2021



EU Bioeconomy Strategy Action

1.5 Facilitate the development of new sustainable biorefineries and confirm the type and estimated potential⁴⁴

44 Some reports estimate this potential with up to 300 new biorefineries by 2030

Studies on support to R&I policy in the area of bio-based products and services, Lot 3 Biorefinery pathways and outlook for deployment

Focuses on the production of chemicals and materials from biorefineries in the EU.

Contract by: E4Tech, Wageningen University, BTG, FNR, iCons

Budget: ca. 500 K EUR, 14 months duration (Jan 2020 – Feb 2021)

COM Steering group: RTD.C1/C2, AGRI, JRC, GROW

WP 1 -Biorefinery Classification

WP 2 –Drivers and barriers for biorefineries (non-technical)

WP 3 –Available and emerging biorefinery pathways and RD&I needs

WP 4 –Current EU and global biorefinery deployment database

WP 5 –Market prospects for biorefineries to 2030 in the EU

WP 6 –EU Biorefinery Outlook and Roadmap for Deployment

State of play: pre-final report received 18 December 2020, comments provided by 14 January 2021; 4th (final) Stakeholder Group meeting (12 January 2021), pre-final report presentation on 15 January 2021; 4th final report presentation and meeting 17 February 2021

Bio-based Industry Joint Undertaking (BBI JU)

- Established as one of key actions of EU Bioeconomy Strategy (2012) Implemented under Horizon 2020 (2014 – 20)
- Budget: €3.7 billion initiative: €975 million by the EU and €2.7 billion by the private sector, represented by Bio-based Industry Consortium;
- ca. 820 million EUR of public funding, until 2019
- Seven annual calls completed, 123 projects, involving 924 beneficiaries in 37 countries;
- Call 2020 has been evaluated and results will become public soon
- The BBI JU has been a success story:

Reducing CO2 emissions – Enhancing sustainability and circularity - Making efficient use of resources



Circular Bio-based Europe (CBE) Partnership

The CBE partnerships links to the Bioeconomy Strategy Action Point 1.1 - Mobilise public and private stakeholders, in research, demonstration and deployment of sustainable, inclusive and circular bio-based solutions

Links with headline ambition	A European Green Deal			
Cluster 6 expected impact (main)	Sustainable and circular management of natural resources; tackling pollution; bioeconomy			
Lead DGs	RTD	Form and timing	Institutional (Art.187), launch in 2021	
Partners	Industry (covering the bio-based industries sector as a whole), regional authorities, academia. The membership will build on the Bio-based industries Consortium (BIC).			
Vision / main objective and achievements by 2030	Produce major contributions to the climate targets in 2030 and to pave the way for climate neutrality by 2050, and increased sustainability and circularity of production and consumption systems, in line with the European Green Deal. This will be achieved by developing and expanding the sustainable sourcing and conversion of biomass into bio-based products focusing on multiscale biorefinery processing, and by applying circular economy approaches such as utilisation of biological waste from agriculture, industry and municipal sectors. The deployment of bio-based innovation at regional scale for revival of rural and economically depressed regions.			
Relation to partnerships under Horizon 2020	Successor of BBI JU			
Results from previous evaluations/assessments	_			
Coherence with other Partnerships (priorities)	 Carbon Neutral and Circular Industry, Rescuing Biodiversity, Water4All 			
Synergies with other programmes / initiatives	 InvestEU, Regional Development Fund, Agricultural Fund, LIFE, European Maritime and Fisheries Fund, Circular Bioeconomy Fund 			



Circular Bio-based Europe (CBE) Partnership: objectives

 Problem: forgone benefits from bio-based solutions (economic and environmental)

1. R&I deficit

- Lack of multidisciplinary R&I in bio-based materials to benefits from "bio-revolution"
- Uneven development of R&I capacity across the EU

2. Deployment deficit

- Information asymmetry between science and industry
- Uneven level playing field
- Investment risk

3. Sustainability deficit

 Lack of environmental consideration in the development and implementation of bio-based project (land use change, biodiversity, etc.)

CBE Bodies

Governing Board – New element in the CBE is the strategic formation of the GB meeting at least once a year

Scientific Committee

States Representatives Group

Deployment Groups:

- One or more Deployment Groups shall be established
- The role of the Deployment Groups is to advice the Governing Board on issues critical to market uptake of bio-based innovation and to promote deployment of sustainable bio-based solutions.
- The Deployment Groups shall provide recommendations on the issues related to the deployment of bio-based innovation upon a request from the Governing Board. The Deployment Groups can also issue recommendations to the Governing Board anytime at their own initiative.

Single Basic Act adoption process

- Inter-service consultation closed on 14 December 2020
- Proposal adopted by the Commission on 25 February 2021
- EP issues its opinion ITRE committee
- The European Council adopts the Council Regulation

