



The National Centre
for Research and Development

INNOVATIONS FOR POLAND

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**European
Funds**
Smart Growth



**Republic
of Poland**



The National Centre
for Research and Development

European Union
European Structural
and Investment Funds




The National Centre for Research & Development



- ✓ **executive agency** of the Ministry of Science and Higher Education
- ✓ brings together **the worlds of science and business through co-financing of R&D projects**
- ✓ financial support of **innovative ideas** of Polish entrepreneurs and scientists
- ✓ carries out **tasks facilitating Poland's social and economic growth** and seeks solutions to specific civilisational issues
- ✓ **Intermediate Institution** in the Operational Programmes: Smart Growth and Knowledge Education Development





59
BILLION
PLN

for Polish enterprises, universities and research institutes to support R&D works, encouraging both experienced and start-up entrepreneurs and scientists to start work on innovations in the years 2008-2019

THE NATIONAL CENTRE FOR RESEARCH & DEVELOPMENT

the largest R&D funding and co-funding Agency in Central Europe



DIVERSITY OF ACTIVITIES

58 calls for proposals
in 2019



FINANCIAL RESOURCES

**over PLN 5 bn spent
annually** to support
R&D activities



TERRITORIAL OUTREACH

12 bilateral agreements
with Singapore, Taiwan,
RSA, Israel and EU
Member States



INSTITUTIONAL OUTREACH

cooperation with:
NCN, ARP, KGHM,
NFOSIGW, GDDKiA,
numerous consortia
& partnerships



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THE VOICE OF POLISH SCIENCE AND BUSINESS IN BRUSSELS

NCBR as a **scientific partner** of Business & Science Poland (BSP), represents Polish research & innovation interests within the European Union.

The **key purpose** of Brussels activities is to promote and **increase Polish participation in the EU programmes for research and innovation**, especially in the forthcoming Horizon Europe.

Main activities:

- Networking with the European institutions and partners in Brussels
- Strategic monitoring, analysis and dissemination of information on EU research & innovation policy and programmes.
- Organization of events in Brussels

Business & Science Poland is an Employers' Association registered in Poland. BSP's mission is to support Polish entrepreneurs and science in the effective formation of the European agenda, as well as in programming and spending EU funds on science, research and development as well as investments. BSP members are Polish entities that are able to define their interests in the long term and want to effectively manage regulatory risk.

BSP

BUSINESS & SCIENCE
POLAND



Information Day , Kiev, 18 May, 2021

**National University of Life and Environmental Sciences of Ukraine (NULES),
Ukraine**

Horizon Europe Cluster 6

Food, Bioeconomy, Natural Resources, Agriculture and Environment

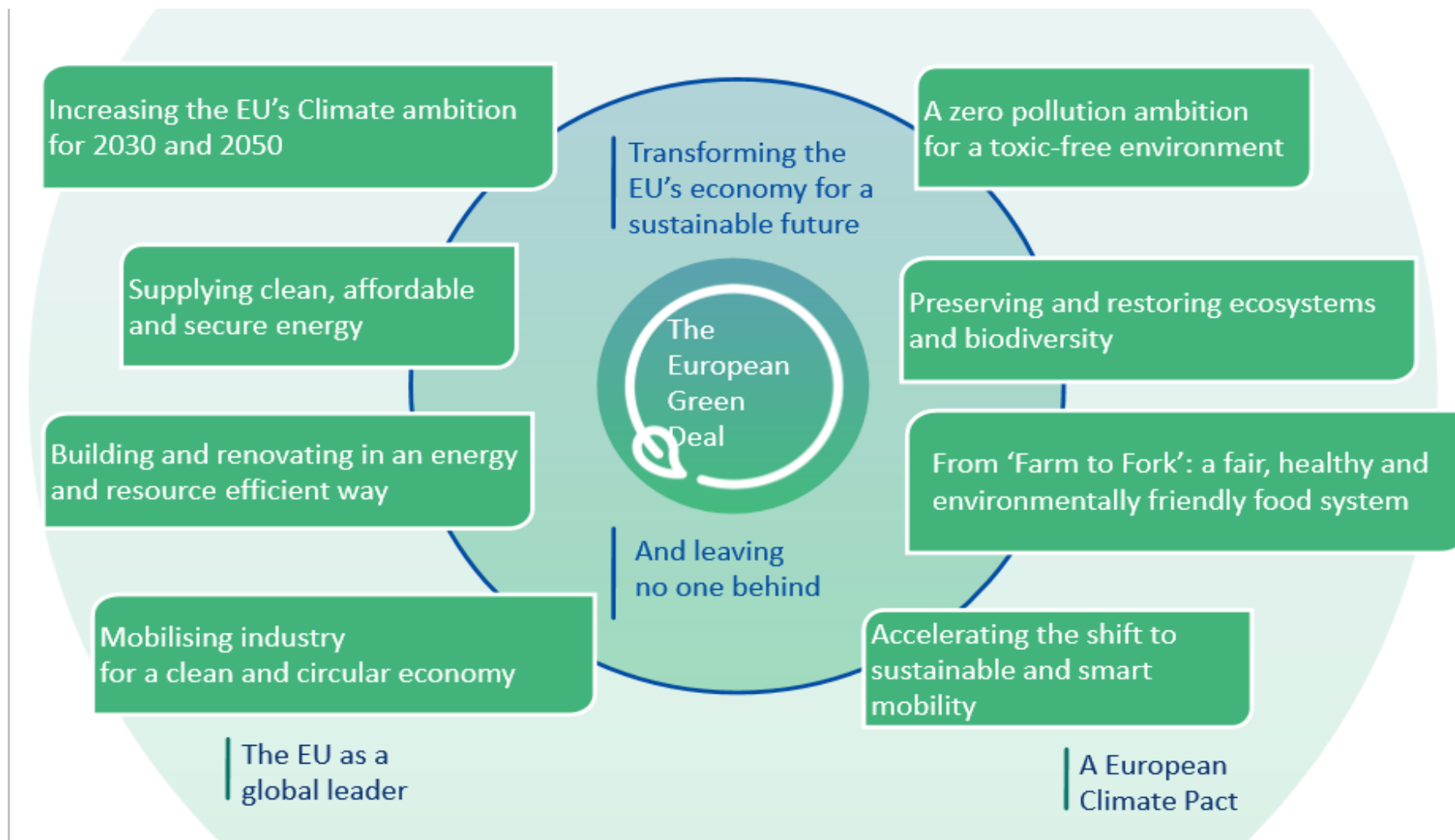
Bożena Podlaska, Cluster 6 NCP
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Bioeconomy in Europe: context

- It is estimated that the bioeconomy contributes to almost **9% of the EU-27 labour force** and **4.7% of the EU-27 GDP**. As a concrete operationalisation of the bioeconomy, **more than 2,300 bio-based plants** have been mapped by the Joint Research Centre across Europe.
- To fully reap the economic, social and environmental benefits of the bioeconomy, dedicated **bioeconomy strategies, investments and innovation** are required at all levels in the EU. That is why the updated **European Bioeconomy Strategy of 2018** states the need for the development of **national and regional bioeconomy strategies**.
- The European Commission supports the **BIOEAST initiative**, which will facilitate the development of national bioeconomy strategies in Central and Eastern Europe.
- **HORIZON 2020**: Under Horizon 2020, the European Commission already dedicated **€3.85 billion of public funds into bioeconomy projects** over the past seven years, yet further research on innovative bioeconomy areas is needed and will be financed through **Horizon Europe** (2021-2027).
- **THE LINK BETWEEN THE BIOECONOMY AND THE COVID-19 RECOVERY:**
The bioeconomy will play an integral role in spurring on the EU recovery from the COVID-19 crisis by **aligning the economy with the biosphere**. The bioeconomy will thus improve resilience and competitiveness, providing long-term systemic solutions, and ensuring a just transition.





Bioeconomy and the European Green Deal

A **circular and sustainable bioeconomy** has the potential to contribute to all dimensions and objectives of the European Green Deal by:

- Delivering on **Europe's economic prosperity** and ensuring a **fair and just transition**.
- Producing **fossil-free materials** for a **climate-neutral future**.
- Enhancing the **protection of the environment** and ecosystems.

For instance:

- **CLIMATE PACT AND CLIMATE LAW** Carbon sequestration in soil, blue carbon and forests and its storage in harvested wood products, together with material substitution of fossil-based products (plastics, energy, textiles), can generate significant carbon savings and make us fit for -55% by 2030.
- **PROMOTING CLEAN ENERGY** Unavoidable biowaste can be converted into energy including biofuels for sectors in which electrification will remain challenging (aviation, maritime).
- **STRIVING FOR GREENER INDUSTRY** Circular use of biomass promotes resource efficiency and stimulates the production of high added-value products from side and waste streams. Bark residues, e.g. can be used for extraction of protective compounds used for non-toxic treatment of wood-based construction materials



Horizon Europe - Structure

Horizon Europe

THE NEXT EU RESEARCH & INNOVATION
PROGRAMME (2021 – 2027)



(2021 – 2027)

Pillar 1

Excellent Science

European Research
Council

Marie Skłodowska-Curie
Actions

Research Infrastructures

Pillar 2

Global Challenges and
European Industrial
Competitiveness

Clusters

- Health
- Culture, Creativity and Inclusive Society
- Civil Security for Society
- Digital, Industry and Space
- Climate, Energy and Mobility
- Food, Bioeconomy, Natural Resources, Agriculture and Environment

Joint Research Centre

Pillar 3

Innovative Europe

European Innovation
Council

European innovation
ecosystems

European Institute of
Innovation
and Technology

Widening Participation and Strengthening the European Research Area

Widening participation and spreading excellence

Reforming and Enhancing the European R&I
system

Horizon Europe Cluster 6

Food, Bioeconomy, Natural Resources and Environment with 7 'Destinations'

Destination 1: Biodiversity and Ecosystem Services

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

Destination 3: Circular economy and bioeconomy sectors

Destination 4: Clean environment and zero pollution

Destination 5: Land, oceans and water for climate action

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

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



Destination 1: Biodiversity and Ecosystem Services

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

All Destinations

PROTECTING NATURE

FROM FARM TO FORK

LEADING THE GREEN CHANGE GLOBALLY

PROMOTING CLEAN ENERGY

CLIMATE PACT AND CLIMATE LAW

INVESTING IN SMARTER, MORE SUSTAINABLE TRANSPORT

STRIVING FOR GREENER INDUSTRY

ELIMINATING POLLUTION

ENSURING A JUST TRANSITION FOR ALL

MAKING HOMES ENERGY EFFICIENT

FINANCING GREEN PROJECTS

**Cluster 6
&**

**The European
Green Deal**

Destination 5: Land, oceans and water for climate action

Destination 3: Circular economy and bioeconomy sectors

Destination 4: Clean environment and zero pollution

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

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

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Important UE strategies and documents:

- Farm to Fork Strategy: https://ec.europa.eu/food/farm2fork_en
- **EU Biodiversity Strategy for 2030 - Bringing nature back into our lives**
- [EU Bioeconomy strategy](#)
- [Circular Economy Action Plan](#)
- [Towards zero pollution in air, water and soil – EU action plan](#)

Bio-based Industry Joint Undertaking (BBI JU)

- Established as one of key actions of EU Bioeconomy Strategy (2012)
- Implemented under Horizon 2020 (2014 – 20)
- A success story: Reducing CO2 emissions – Enhancing sustainability and circularity - Making efficient use of resources – High participation of Small and Medium sized Enterprises (SMEs)
- Budget: €3.7 billion initiative: €975 million by the EU and €2.7 billion by the private sector, represented by Bio-based Industry Consortium; Public funding: ca. 820 million EUR, 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
- More information: bbi-europe.eu



Circular Bio-based Europe (CBE) Partnership

The CBE partnerships links to the Bioeconomy Strategy (2018) 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	<div> <div> </div> <div> </div> </div> <div> <div> </div> <div> </div> </div>		
Coherence with other Partnerships (priorities)	<div> <div> </div> <div> </div> </div> <div> <div> </div> <div> </div> </div>		
Synergies with other programmes / initiatives	<div> <div> </div> <div> </div> </div> <div> <div> </div> <div> </div> </div>		

Four partnerships to be introduced in WP 2023-2024

Accelerating farming systems transition: agro-ecology living labs and research infrastructures

- co-funded European Partnership

Animals and health

- co-funded European Partnership

Agriculture of data

- co-funded European Partnership

Safe and Sustainable Food Systems

- co-funded European Partnership

One institutionalised Partnership

Circular bio-based Europe

- Outside Cluster 6 WP part



3 Missions with specific interest for Cluster 6

Mission Starfish 2030: Restore our Ocean and Waters by 2030

Mission Caring for Soil is Caring for Life - Ensure 75% of soils are healthy by 2030 for food, people nature and climate

A Climate Resilient Europe – Prepare Europe for climate disruptions and accelerate the transformation to a climate resilient and just Europe by 2030



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THANK YOU FOR YOUR ATTENTION

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