



The National Centre
for Research and Development

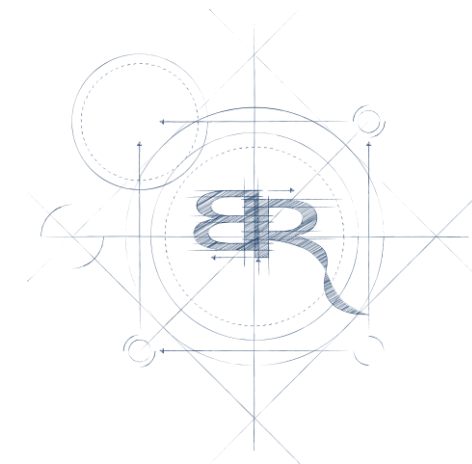


Information day for researchers and SMEs on Cluster 6 Food, Bioeconomy, Natural resources, Agriculture and Environment

Bożena Podlaska

Kiev | 23.11.2021 r.

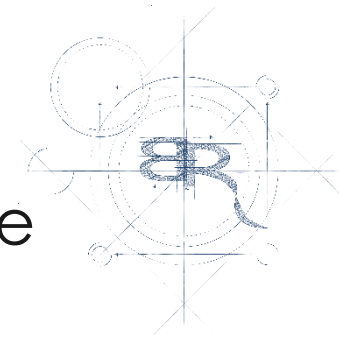
The National Centre for Research & Development



- ✓ **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

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

THE VOICE OF POLISH SCIENCE AND BUSINESS IN BRUSSELS

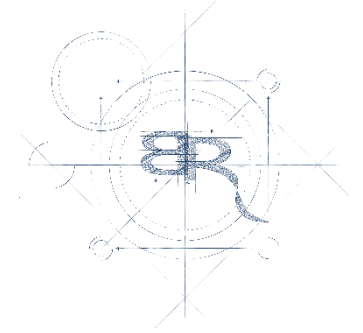
NCBR as a **scientific partner** of Business & Science Poland (BSP), represents Polish research & innovation interests within the European Union.

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.

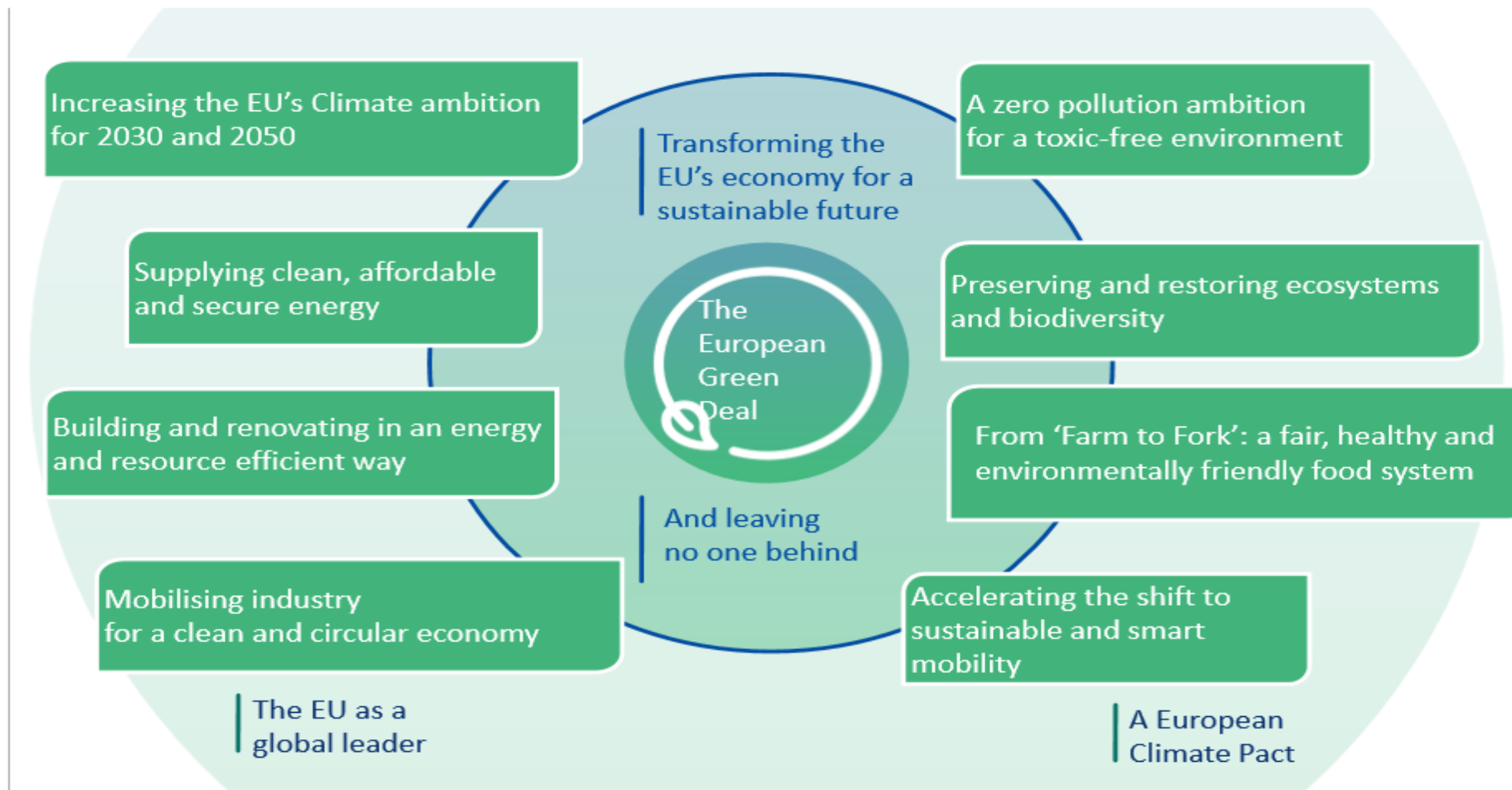
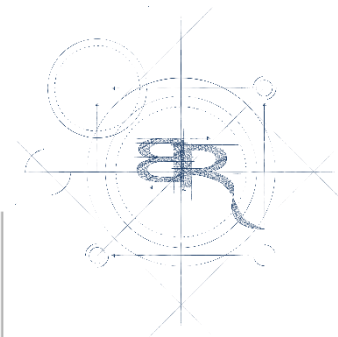


BSP

BUSINESS & SCIENCE
POLAND

Closer look at Horizon Europe

The European Green Deal – new economic model for EU



UE Climate neutrality by 2050

Horizon Europe



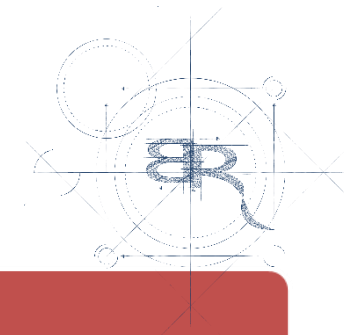
(2021 – 2027)

€95.5 billion



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

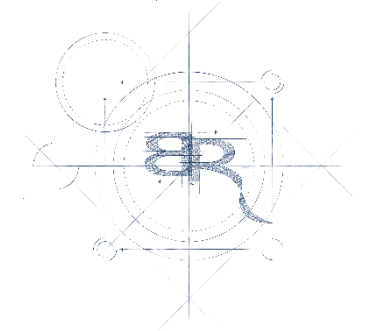
Destination 4: Clean environment and zero pollution

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

FULL Text of 77 Topics description at the Work Programme Cluster 6 2021-2022



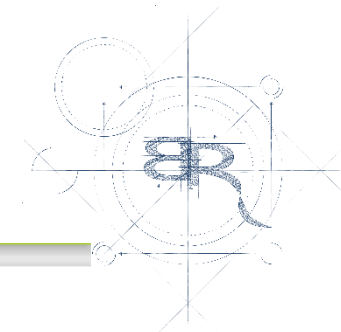
[wp-9-food-bioeconomy-natural-resources-agriculture-and-environment_horizon-2021-2022_en.pdf \(europa.eu\)](#)

Recordings and presentations from EC info day:

https://ec.europa.eu/info/research-and-innovation/events/upcoming-events/horizon-europe-info-days/cluster-6_en

HORIZON-CL6-2022-BIODIV-02-03-two-stage: Resilient beekeeping

Research and Innovation – two stage



HORIZON-CL6-2022-BIODIV-02-03-two-stage



POLICY CONTEXT

- Support the objective of the biodiversity strategy and the farm to fork strategy to transition to fair, healthy and resilient European agriculture



-50%



-50%



-50%



25%

- Bees are subject to numerous biotic and abiotic stressors and the impact of climate change on honeybees requires further attention
- The biology of honeybees, the role of genetic diversity within honeybee populations and interactions between honeybees and their environment need a deeper understanding



EXPECTED OUTCOMES

- ✓ Improved **resilience** of beekeeping against **stresses**
- ✓ Increased knowledge on honeybee **immunity** and **nutrition**
- ✓ Improved capacity to deal with relevant honeybee **pathogens**
- ✓ Improved understanding of:
 - the importance of **diversity** within **honeybee populations**
 - the impacts of beekeeping activities on **wild pollinators**

Related impact:
sustainable, productive,
biodiverse and resilient
primary production



HORIZON-CL6-2022-BIODIV-02-03-two-stage: Resilient beekeeping /cont.

HORIZON-CL6-2022-BIODIV-02-03-two-stage



SCOPE

- Develop technologies and strategies for beekeepers to **adapt to climate change** and possibly contribute to mitigate climate change
- Perform baseline studies on **immunity, health, nutrition, and genetic diversity** and **resistance** of honeybees
- Develop tools for **assessing impacts** of beekeeping on **wild pollinators** at landscape scale, strategies for **mitigating** those impacts, and tools for **planning & decision-making**
- Address at least **Varroa destructor** and possibly **other honeybee mites**, as well as **Aethina tumida**
- Review the **key biological mechanisms** of **Varroa destructor** and identify possible novel areas to target with potential **new control methods**
- Assess the vulnerability and preparedness of the honeybee-keeping sector in relation to **Aethina tumida** and **Tropilaelaps** spp.



INDICATIVE BUDGET

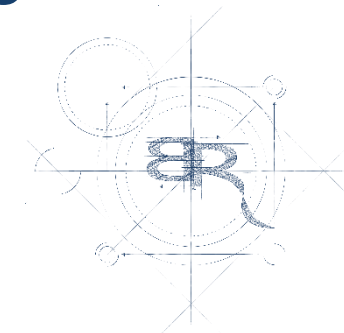
6 mln EUR per project
(12 mln EUR in total)

- ❖ One project -> biotic stressors
- ❖ One project -> abiotic stressors



Important!

Genetic component, if appropriate
Multi-actor approach



HORIZON-CL6-2022-CIRCBIO-01-06: Strengthening the European forest-based research and innovation ecosystem

Research and Innovation Action

HORIZON-CL6-2022-CIRCBIO-01-06



POLICY CONTEXT

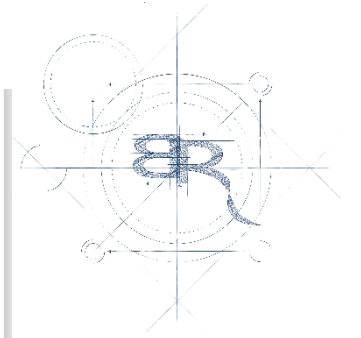
- A successful **transition** of the forest-based sector **towards greater sustainability** needs to be underpinned by a **comprehensive scientific assessment**.
- Better coordination of research activities is also required to **overcome fragmentation of public research efforts**, to strengthen the link between forest managers, industries and society and to **streamline the activities of European, national and regional stakeholders**.



EXPECTED OUTCOMES

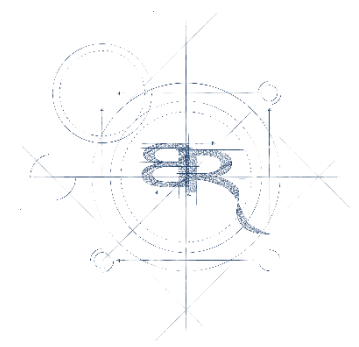
- ✓ Better **insights into existing funding sources** and streamlining of research and innovation (R&I) actions in Europe.
- ✓ Establishment of a co-creative environment allowing **stakeholders to identify jointly existing research gaps and future priorities** to coordinate research efforts at regional, national and European level.
- ✓ **Intensified trans-national R&I cooperation** in forestry and the forest-based sector on research priorities, critical and key technologies.
- ✓ Creation of an **open-innovation ecosystem** with relevant stakeholders.

Related impact:
multifunctionality and
management of forests in
Europe based on the
three pillars of
sustainability



HORIZON-CL6-2022-CIRCBIO-01-06: Strengthening the European forest-based research and innovation ecosystem/cont.

Research and Innovation Action



HORIZON-CL6-2022-CIRCBIO-01-06



SCOPE

- **Analyse the forest-based sector** in an integrated way, considering different **biodiversity** and **bioeconomy** issues, **societal expectations** and **climate change** risks that call for an intensified European and international collaboration.
- Design a suitable method for conducting **foresight analysis** on issues that are likely to have an impact on forests in European regions and globally.
- Provide evidence and **knowledge on how existing funding sources are mobilised** to support research and innovation initiatives in the forest-based sector.
- Develop a structured framework for a **European network of research funding and research policy organisations**.
- Develop an **R&I roadmap at EU-level** and prepare for a possible **European partnership** under Horizon Europe.



INDICATIVE BUDGET

4 mln EUR per project
(4 mln EUR in total)

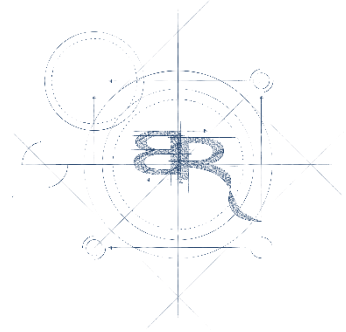


Important!

Multi-actor approach
Assess potential flagships



Cluster 6: TYPE OF PROJECTS



Research and innovation action (RIA)

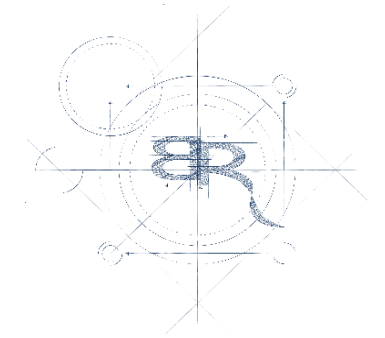
Research and innovation action (RIA) that establishes new knowledge or explores a new or improved technology, product, process, service or solution. The EU funding covers up to 100% of the project costs. TLR below 6.

Innovation action (IA)

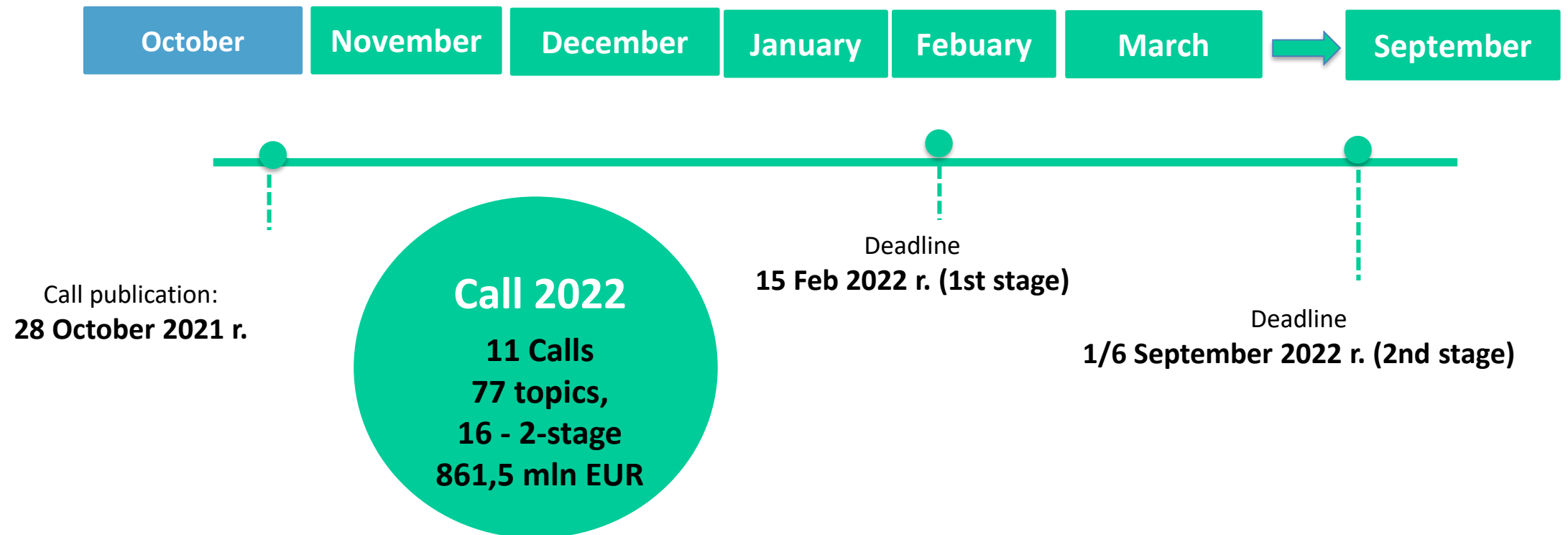
Innovation action (IA) that produces plans or designs for new or improved products, processes or services including prototyping, testing, demonstrating, piloting, large-scale product validation and market replication. The EU funding covers up to 70% of the project costs. TLR 6-8.

Coordination and support actions (CSA)

Coordination and support action (CSA) that improve cooperation among EU and associated countries to strengthen the European Research Area including, for example, standardisation, dissemination, awareness-raising, communication and networking activities, policy dialogues, mutual learning or studies. The EU funding covers up to 100% of the project costs.



Calls in Cluster 6, 2021-2022



ELIGIBILITY

Consortium composition (collaborative projects)

- at least one independent legal entity established in a Member State, and
- at least two other independent legal entities each established either in a different Member State or an Associated Country.

Gender Equality Plan (applicable only from 2022 on)

Participants that are public bodies, research organisations or higher education establishments from Members States and Associated countries **must have a gender equality plan**, covering minimum process-related requirements.

- A self-declaration will be requested at proposal stage (for all types of participants).
- Included in the entity validation process (based on self-declaration)



ADMISSIBILITY

Same general admissibility conditions

- Applications must be submitted before the call deadline, **electronically** via the Funding & Tenders Portal
- Applications must be **complete, readable, accessible and printable**, and include a **plan for the exploitation and dissemination of results**, unless provided otherwise in the specific call conditions.

Proposal page limit

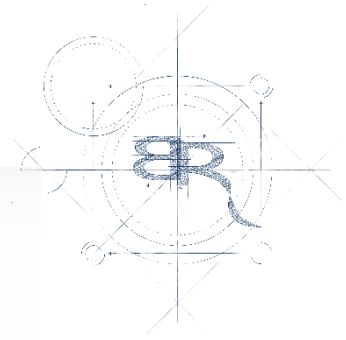
Substantial reduction in maximum length:

- RIAs and IAs type of actions: limit for a full application is **45 pages**
- CSAs: limit is **30 pages**
- Exceptions, if any, would be specified in the call text.

1st stage – 10 pages
2nd stage – 45 pages

NEW

Evaluation Criteria



Same criteria as in H2020

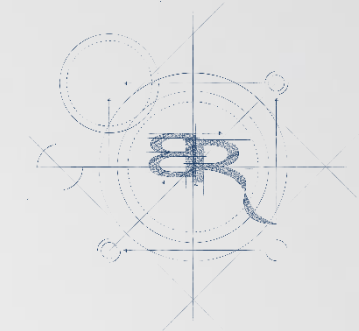
Same three award criteria: '**Excellence**', '**Impact**' and '**Quality and efficiency of the implementation**'. Excellence only for ERC.

Adapted following lessons learnt

- The number of '**aspects to be taken into account**' have been **reduced**, ensuring that the same aspect is not assessed twice
- **Open Science** practices assessed as part of the scientific methodology in the excellence criterion
- **New approach to impact**: Key Impacts Pathways (KIPs)
- The assessment of the **quality of applicants** is assessed under 'implementation', rather than as a separate binary assessment of operational capacity
- Assessment of **management structures** has been removed.



Networking, partner search

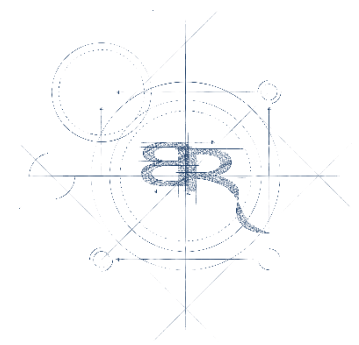


<https://he-2022-cluster6.b2match.io/>

On line tool, open till end of the deadline!



NEW APPROACH TO EUROPEAN PARTNERSHIPS



New generation of objective-driven and more ambitious partnerships in support of agreed EU policy objectives

Key features

- Simple architecture and toolbox
- Coherent life-cycle approach
- Strategic orientation

Co-programmed

Based on Memoranda of Understanding / contractual arrangements; implemented independently by the partners and by Horizon Europe

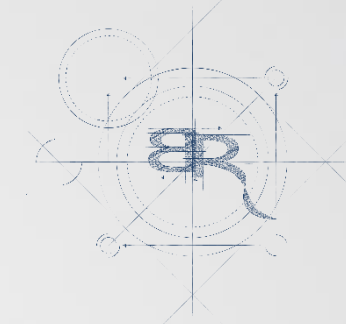
Co-funded

Based on a joint programme agreed and implemented by partners; commitment of partners for financial and in-kind contributions

Institutionalised

Based on long-term dimension and need for high integration; partnerships based on Articles 185 / 187 of TFEU and the EIT-Regulation supported by Horizon Europe








OVERVIEW OF 49 CANDIDATE EUROPEAN PARTNERSHIPS



- Institutionalised Partnerships (Art 185/7)
- EIT KIC
- Co-Programmed
- Co-Funded

WHAT ARE THE GOALS?

Cluster 6: Food, Bioeconomy, Natural Resources, Agriculture and Environment

-  Climate neutrality and **adaptation to climate change**
-  Preservation and restoration of **biodiversity** and ecosystems
-  Sustainable and circular management of natural resources; **Bioeconomy**
-  Food and nutrition security; **sustainable food systems**
-  **Balanced development** of rural, coastal and urban areas
-  **Environmental observation**
-  EU Innovation **Ecosystems**

European
Green Deal

An economy
that works
for people

A Europe fit for
the Digital Age

A stronger
Europe
in the world

EU MISSION

R&I Missions

Linking EU's research and innovation to major societal needs; with strong visibility and impact

A mission is a portfolio of actions across disciplines intended to achieve a **bold and inspirational and measurable goal** within a set timeframe, with **impact** for society and policy making as well as relevance for a significant part of the European population and wide range of European citizens.

Horizon Europe defines mission characteristics and elements of governance, and **5 missions areas**.

Five EU missions

Adaptation to
Climate Change



Cancer



Climate-neutral
and Smart Cities



Restore our
Ocean and Waters



Soil Deal
for Europe



MISSION SOIL

A Soil Deal for Europe: 100 living labs and lighthouses to lead the transition towards healthy soils by 2030

1. Reduce **desertification**

2. Conserve soil **organic carbon stocks**

3. Stop **soil sealing** and increase re-use of urban soils

4. Reduce **soil pollution** and enhance restoration

5. Prevent **erosion**

6. Improve soil structure to enhance **soil biodiversity**

7. Reduce the **EU global footprint** on soils

8. Improve **soil literacy** in society



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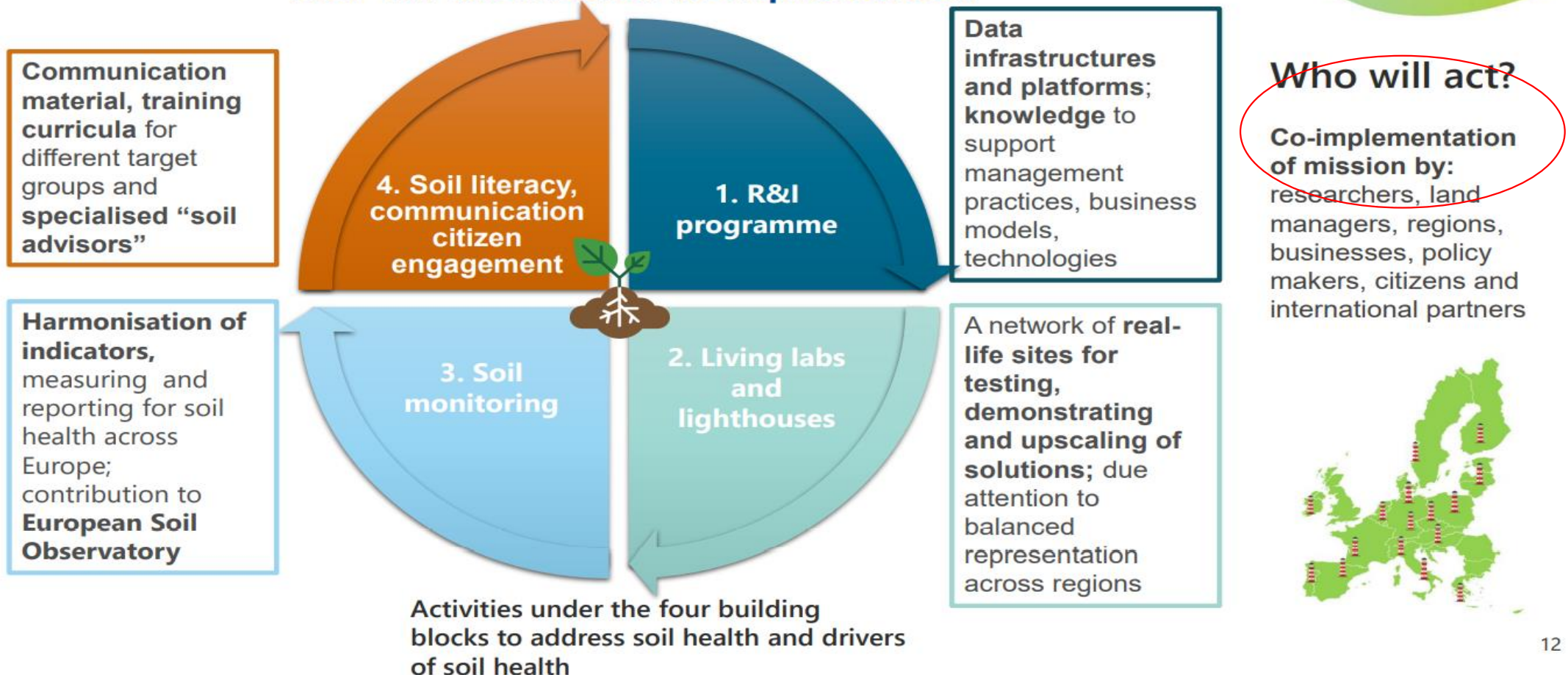
IMPLEMENTATION



EUROPEAN UNION

EU
MISSIONS

How will the mission be implemented?



12

Living Labs and Lighthouses

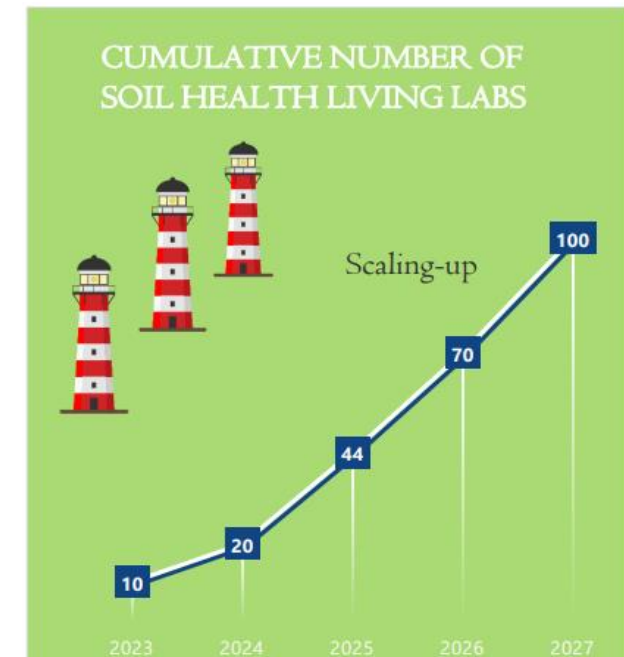


EUROPEAN UNION

EU
MISSIONS

Creation of 100 Living Labs and Lighthouses

- **Living labs** are a core element of the mission – it reflects the ambition to “do research in new ways”: participatory, interdisciplinary, intersectoral.
- **Living labs (LLs)** are “real-life” places for experiments and innovation: each living lab corresponds to a cluster of sites working together at regional or sub-regional level.
- **Lighthouses** are individual places to showcase good practices. Can be from within or outside LLs.
- **Network of living labs** to be gradually established through consecutive calls for living labs under the various Work Programmes of Horizon Europe.
- Specific criteria for living labs have been developed under the mission to ensure **common approach and comparability of data and experiences**.



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How to write a successful Horizon Europe proposal in 5 easy steps

STEP 1

Ask yourself if the HE is the right programme for you

Step 2

Get intimate with your call

Step 3

Create the best consortium you can possible imagine

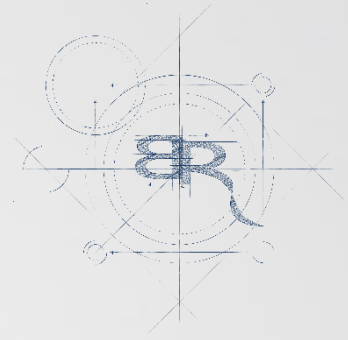
Step 4

Put together your application from the point of view of the evaluator

Step 5

Submit your proposal early and often

Contact your NCP



- Guidance on choosing relevant Horizon Europe topics and types of action
- Advice on administrative procedures and contractual issues
- Training and assistance on proposal writing
- Distribution of documentation (forms, guidelines, manuals etc.)
- Assistance in partner search



National Contact Points for Horizon Europe

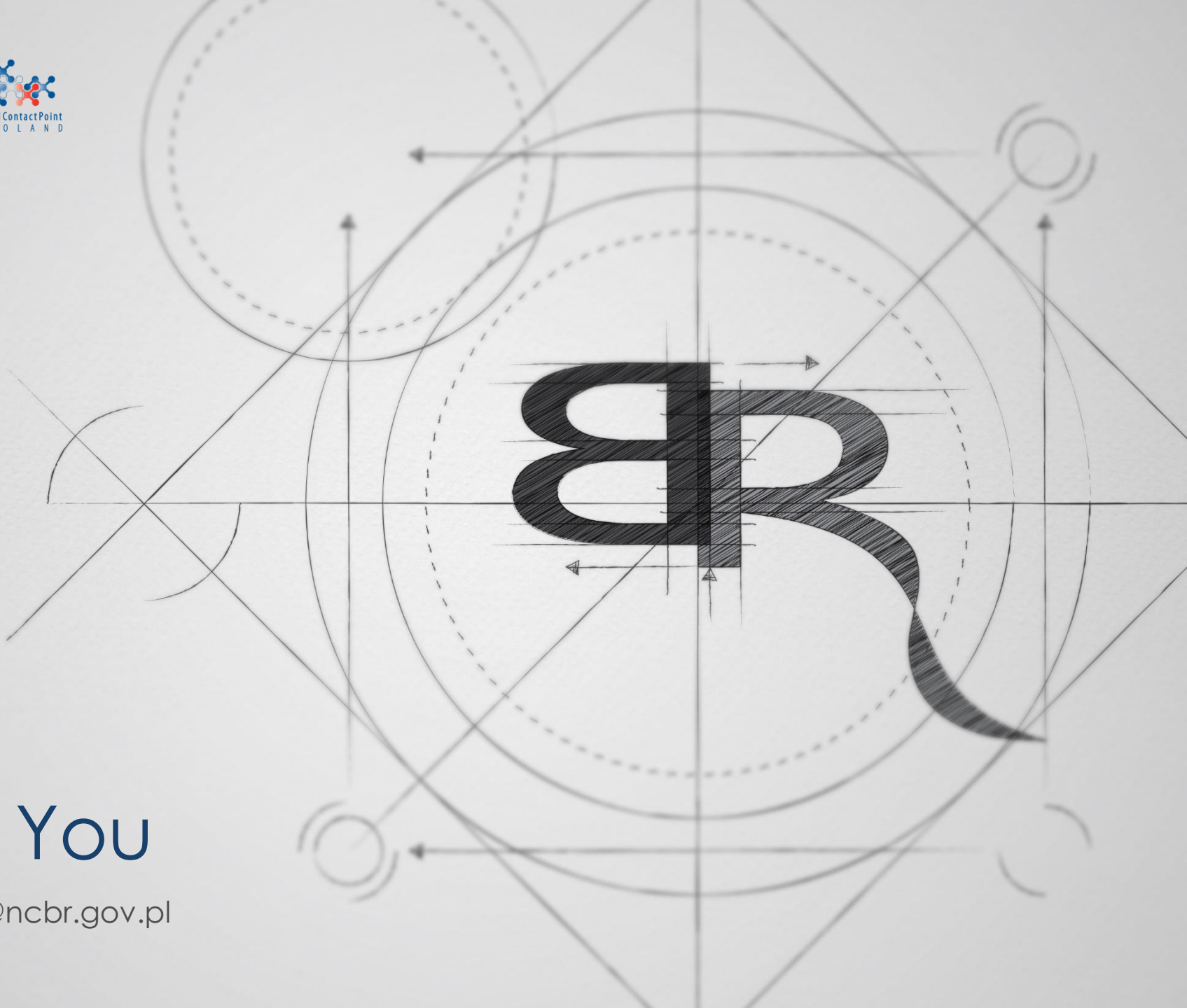
[Funding & tenders \(europea.eu\)](https://europea.eu)



The National Centre
for Research and Development



National Contact Point
in POLAND



Dziękuję/Thank You

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