



Horizon Europe: opportunities for Nature-based Solutions (2022)



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1

Nature-based Solutions Definition

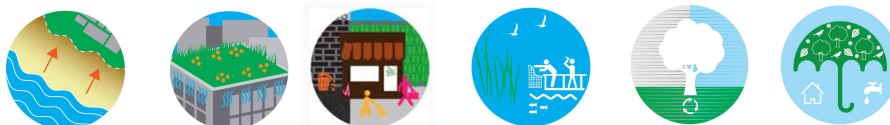


Nature-based solutions to societal challenges are solutions that are inspired and supported by nature, which are cost-effective, simultaneously provide **environmental**, **social** and **economic** benefits and help build resilience.

Such solutions bring more, and more diverse, nature and natural features and processes into cities, landscapes and seascapes, through locally adapted, resource-efficient and systemic interventions.

Nature-based solutions must therefore benefit biodiversity and support the delivery of a range of ecosystem services

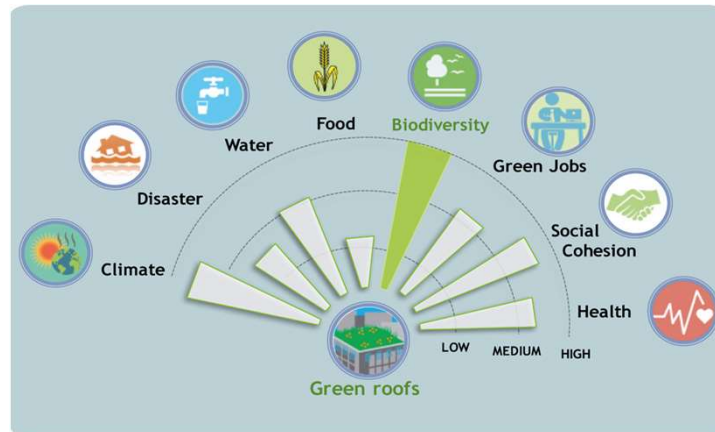
https://ec.europa.eu/research/environment/index_en.cfm?pg=nature-based-solutions



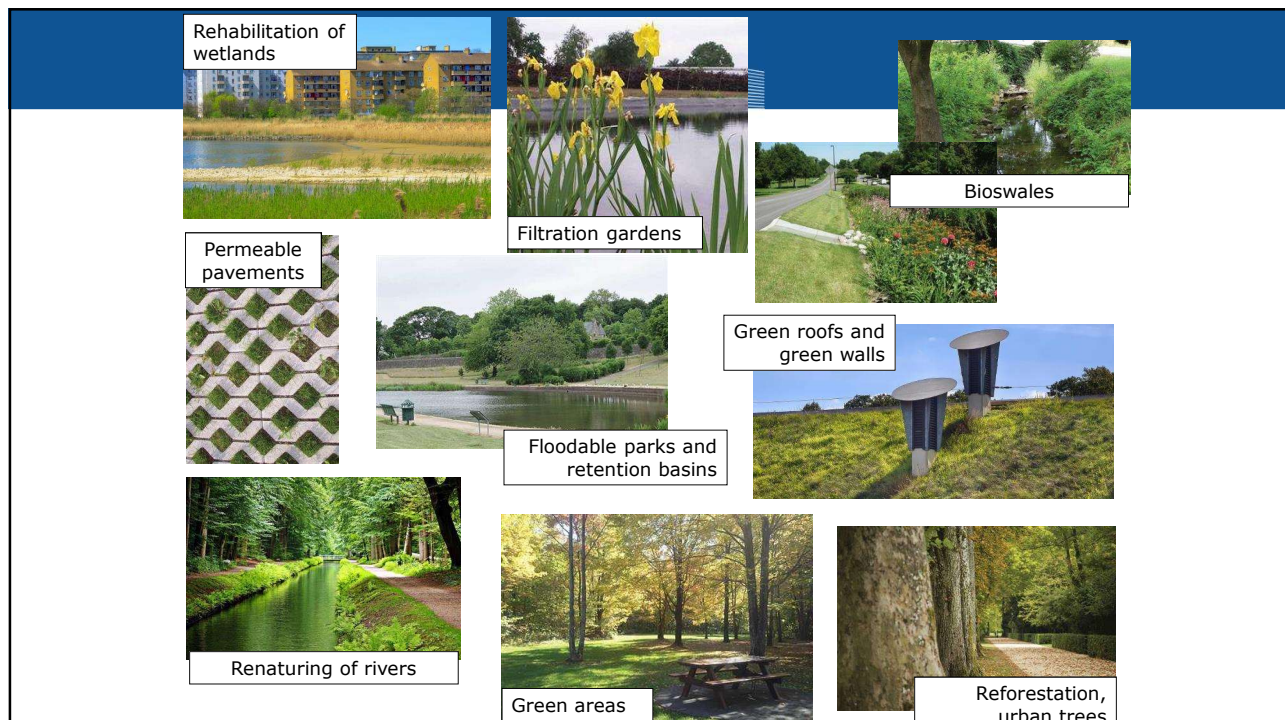
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NBS bring multiple benefits that help us address several challenges at the same time



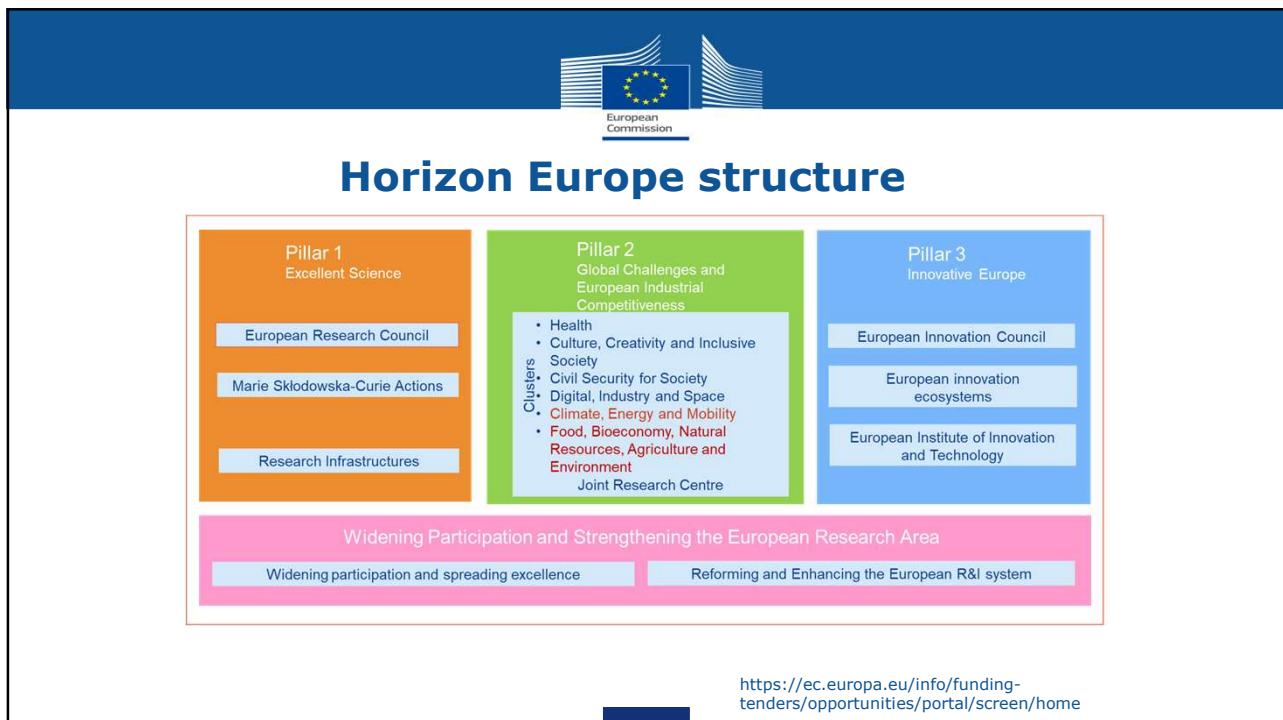
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6

CLUSTER 6: BIODIVERSITY AND ECOSYSTEM SERVICES

Call HORIZON-CL6-2021-BIODIV-02 – Deadline 22.7.2021 (Biodiversity Partnership)
 Call HORIZON-CL6-2021-BIODIV-01 – Deadline 6.10.2021 (21 topics)



Understanding
biodiversity
decline

4 topics



Valuing and
restoring
biodiversity and
ecosystem
services

8 topics



Managing
biodiversity in
primary
production

2 topics



Enabling
transformative
change on
biodiversity

4 topics



Interconnecting
biodiversity
research and
supporting
policies

4 topics

[wp-9-food-bioeconomy-natural-resources-agriculture-and-environment_horizon-2021-2022_en.pdf](https://ec.europa.eu/food/wp9-food-bioeconomy-natural-resources-agriculture-and-environment_horizon-2021-2022_en.pdf)
[europa.eu](https://ec.europa.eu)



CALLS BIODIVERSITY AND ECOSYSTEM SERVICES



Expected impacts

- We understand better the main drivers of biodiversity decline
- Biodiversity and natural capital are integrated into public and business decision-making
- **Further deployment of nature-based solutions**
- Interrelations between biodiversity, health, food, soil, water, air and climate are better known
- Promote practices in agriculture and forestry that support biodiversity
- Develop transformative changes in society: 'do not harm' biodiversity policies become mainstream in all sectors
- Biodiversity research is interconnected across Europe and support national, EU and international policies



The 22 topics of Cluster 6 – Biodiversity and Ecosystem Services

HORIZON-CL6-2021-BIODIV-01-01: European participation in global biodiversity genomics endeavours aimed at identifying all biodiversity on Earth
 HORIZON-CL6-2021-BIODIV-01-02: Data and technologies for the inventory, fast identification and monitoring of endangered wildlife and other species groups
 HORIZON-CL6-2021-BIODIV-01-03: Understanding and valuing coastal and marine biodiversity and ecosystems services
 HORIZON-CL6-2021-BIODIV-01-04: Assess and predict integrated impacts of cumulative direct and indirect stressors on coastal and marine biodiversity, ecosystems and their services

HORIZON-CL6-2021-BIODIV-01-05: The economics of nature-based solutions: cost benefit analysis, market development and funding
 HORIZON-CL6-2021-BIODIV-01-06: Nature-based solutions, prevention and reduction of risks and the insurance sector
 HORIZON-CL6-2021-BIODIV-01-07: Ecosystems and their services for an evidence based policy and decision-making
 HORIZON-CL6-2021-BIODIV-01-08: Supporting the development of a coherent and resilient Trans-European Nature Network
 HORIZON-CL6-2021-BIODIV-01-09: Assessing and consolidating recent scientific advances on freshwater ecosystem restoration
 HORIZON-CL6-2021-BIODIV-01-10: Demonstration of measures and management for coastal and marine ecosystems restoration and resilience in simplified socio-ecological systems
 HORIZON-CL6-2021-BIODIV-01-11: What else is out there? Exploring the connection between biodiversity, ecosystems services, pandemics and epidemic risk
 HORIZON-CL6-2021-BIODIV-01-12: Improved science based maritime spatial planning and identification of marine protected areas

HORIZON-CL6-2021-BIODIV-01-13: Breeding for resilience: focus on root-based traits
 HORIZON-CL6-2021-BIODIV-01-14: Fostering organic crop breeding

HORIZON-CL6-2021-BIODIV-01-15: Quantify impacts of the trade in raw and processed biomass on ecosystems, for offering new leverage points for biodiversity conservation, along supply chains, to reduce leakage effects
 HORIZON-CL6-2021-BIODIV-01-16: Biodiversity, water, food, energy, transport, climate and health nexus in the context of transformative change
 HORIZON-CL6-2021-BIODIV-01-17: Policy mixes, governance (including financing) and decision-making tools for transformative action on biodiversity
 HORIZON-CL6-2021-BIODIV-01-18: Understanding the impacts of and the opportunities offered by digital transformation, new emerging technologies and social innovation on biodiversity

HORIZON-CL6-2021-BIODIV-01-19: A mechanism for science to inform implementation, monitoring, review and ratcheting up of the new EU biodiversity strategy for 2030 ('Science Service')
 HORIZON-CL6-2021-BIODIV-01-20: Support to processes triggered by IPBES and IPCC
 HORIZON-CL6-2021-BIODIV-01-21: Impact and dependence of business on biodiversity
 HORIZON-CL6-2021-BIODIV-02-01: European partnership rescuing biodiversity to safeguard life on Earth



9

Ongoing application 2021

CSA : Coordination and Support Actions
 IA: Innovation Actions
 RIA: Research and Innovation actions

- HORIZON-CL6-2021-BIODIV-01-06: Nature-based solutions, prevention and reduction of risks and the insurance sector (CSA, €4M, 1 project)
- HORIZON-CL6-2021-BIODIV-01-10: Demonstration of measures and management for coastal and marine ecosystems restoration and resilience in simplified socio-ecological systems (IA, €10M, 1 project)
- HORIZON-CL6-2021-BIODIV-01-21: Impact and dependence of business on biodiversity (RIA, €2-3M, up to 2 projects)
- HORIZON-CL6-2021-CLIMATE-01-05: Agroecological approaches for climate change mitigation, resilient agricultural production and enhanced biodiversity (RIA, €7M, 1 project)
- HORIZON-CL6-2021-CLIMATE-01-08: Agroforestry to meet climate, biodiversity and farming sustainability goals (RIA, €4M, 2 projects)
- HORIZON-CL5-2021-D1-01-08: Restoration of natural wetlands, peatlands and floodplains as a strategy for fast mitigation benefits; pathways, trade-offs and co-benefits (RIA, €6-7M, up to 3 projects)



10

Funding opportunities in 2022

- HORIZON-CL6-2022-COMMUNITIES-02-02-two-stage: Developing **nature-based therapy** for health and well-being (RIA, €6M, 3 projects)
- HORIZON-CL6-2022-BIODIV-01-03: Network for nature: **multi-stakeholder dialogue platform** to promote nature-based solutions (CSA, €6M, 1 project)
- HORIZON-CL6-2022-ZEROPOLLUTION-01-03: EU-China international cooperation on nature-based solutions for **nutrient management in agriculture** (IA, €6M, 2 projects)
- HORIZON-CL6-2022-COMMUNITIES-01-03: Integration of **marine ecosystem service valuation**, conservation and restoration in socio-economic models (IA, €9M, 1 project)
- **HORIZON-CL6-2022-COMMUNITIES-01-05: Assessing the socio-politics of nature-based solutions for more inclusive and resilient communities** (RIA, €6M, 2 projects)
- HORIZON-CL5-2022-D1-02-05: Let nature help do the job: **Rewilding landscapes** for carbon sequestration, climate adaptation and biodiversity support (RIA, €8-9M, up to 2 projects)



11

HORIZON-CL6-2022-COMMUNITIES-01-05

Assessing the socio-politics of nature-based solutions for more inclusive and resilient communities (RIA)



POLICY CONTEXT

- NBS contribute to the EU Biodiversity Strategy for 2030 and other Green Deal priorities, by supporting biodiversity and ecosystem services;
- Available approaches seem inadequate to fully take into consideration synergies and trade-offs among different actions, notably in what concerns the social and cultural benefits of NBS.
- NBS implementation issues persist, hindering NBS uptake and upscale. There is a need to develop our understanding of the economic, social, political, moral and cultural dimensions of designing and implementing NBS.



EXPECTED OUTCOMES

- ✓ Enhanced contribution of NBS to social and economic targets, especially in vulnerable communities
- ✓ New NBS governance models and co-creation approaches and tools, as well as NBS design and technologies that enhance social benefits while providing ecological and economic benefits.
- ✓ NBS are better suited to respond to different socio-political contexts and have higher replicability in the diverse environmental, economic and social conditions across Europe.



12

HORIZON-CL6-2022-COMMUNITIES-01-05



SCOPE

- Investigate how different NBS designs and governance can contribute to environmental justice, prevent environmental racism and gentrification, or insure the inclusion and active participation of women, youth, or minority groups;
- Innovative governance models, e.g. exploring different forms of engagement, inclusion and stewardship; or enabling the breaking of silos in public administration and between different administrative domains;
- Solutions to functional conflicts in land-use for better and more integration between NBS, land-use planning and other sectors;
- Approaches based on citizen science to better communicate the science of NBS and promote citizen engagement;
- Understand how the meanings and values attached to nature affect the long-term success of NBS;
- Impact of citizens' perceptions and expectations towards NBS on management decisions and delivery of ecosystem services.



INDICATIVE BUDGET

6 mIn EUR - 2 projects



Important!

Collaboration with other NBS projects;

SSH (social sciences and humanities) disciplines;

Outputs on OPPLA (*EU repository for NBS*).



13

Horizon Europe WP 2022



Important dates

2021 calls end: 6 October 2021

2022 calls open: 28 October 2021

- Info Days for Cluster 6: 25 and 26 October 2021 (tbc)
- Deadline for proposal submission: 15 February 2022

14

Thank you!

More on NBS:

[The EU and NBS](#) (EC website)

[NBS valorisation](#) reports

[Public Procurement of NBS](#) (report)

[Evaluating the impact of NBS](#) (handbook)

More info on Horizon Europe:

[Cluster 6 WP \(2021-2022\)](#)

[Press Release launching the main work programme \(2021-2022\) of Horizon Europe](#)

[Horizon Europe](#)

[Horizon Europe's Strategic Plan](#)

[Funding & Tenders portal](#)

