

## **BiodivERsA & JPI Climate**

## Strategic workshop

**13<sup>th</sup> of April 2021** 

Technical check-in, the meeting will start at 1:30pm CEST



## Welcome and introduction to the workshop objectives

Hilde Eggermont, BelSPO BiodivERsA Vice-Chair Chair of the European Biodiversity Partnership





#### I Background

- ✓ Biodiversity loss & climate change: addressing the twin crises.
- ✓ Past, ongoing & future initiatives on both sides focusing on biodiversity and climate change interlinkages => stock-tacking & looking ahead.
- ✓ Exploring a possible collaboration between BiodivERsA/ European Biodiversity Partnership and JPI Climate, using the BiodivClim COFUND action (2019-2024).



#### **II Concept**

The workshop will build on an **initial comparison between the Strategic Research and Innovation Agendas** (SRIAs) of both initiatives as well as on **past and ongoing activities**, thus leading to the identification of common priorities at the cross-road of biodiversity and climate change and **possible joint actions**, notably to feed the Adaptation to Climate Change mission.

To support the discussions, some preliminary work has been done:

✓ Two **background documents** were prepared by JPI Climate & BiodivERsA (sent with the programme)

#### ✓ A series of events were identified:

- ✓ BiodivClim Kick-off meeting & clustering workshop;
- ✓ ECCA NbS webinar;
- ✓ ECCA 2021 High-level event;
- ✓ BiodivClim IPBES/IPCC webinar.



#### **III Objectives and expected outcomes**

The objectives of the workshop are to:

- ✓ explore future collaboration opportunities between BiodivERsA/the future European Biodiversity Partnership and JPI Climate;
- ✓ identify common needs and common priorities at the crossroad of biodiversity and climate change;
- ✓ identify activities that could be implemented to fill these needs;
- ✓ ultimately, use the knowledge and activities generated to feed the Adaptation to Climate Change mission.

The outcomes of the workshop will be compiled in a **report** that will be circulated to everyone in the weeks after the workshop.

Another **closed session** might be organised at a later stage to develop a **common vision** for collaboration between BiodivERsA/European Partnership on Biodiversity and JPI Climate and a **joint Implementation Plan** for collaborative activities.



### **III Programme & practicalities**

#### Programme of the afternoon:

- ✓ Presentation of both JPI Climate and BiodivERsA/the future European Biodiversity Partnership.
- ✓ Initial screening of synergies and common priorities between the Strategic Research and Innovation Agendas of both bodies.
- ✓ Update of the policy landscape, with a focus on the role of biodiversity in climate change adaptation and mitigation.
- ✓ Discussions groups on a joint vision on common priorities and needs for biodiversity and climate change
   => based on the background analyses & structured around the 3 guiding questions
- ✓ Presentation of EU's Mission on Adaptation to Climate Change.
- ✓ Final round of discussion and comments.

#### Practicalities

The meeting will be recorded, for internal reporting purposes only, and will be deleted soon afterwards.
 Mute your microphone, raise your hand if you want to intervene, use chat box for written comments.



## General update of the policy landscape





## Joint Programming Initiative "Connecting Climate Knowledge for Europe" (JPI Climate)

Alexandre Fernandes, BelSPO Senior Science Officer, Central Secretariat JPI Climate





#### What is JPI Climate?

Joint Programming Initiative *"Connecting Climate Knowledge for Europe"* (JPI Climate):

Pan-European intergovernmental initiative bringing together **19 European countries**;

Provides useful climate knowledge and services for European and national climate strategies;

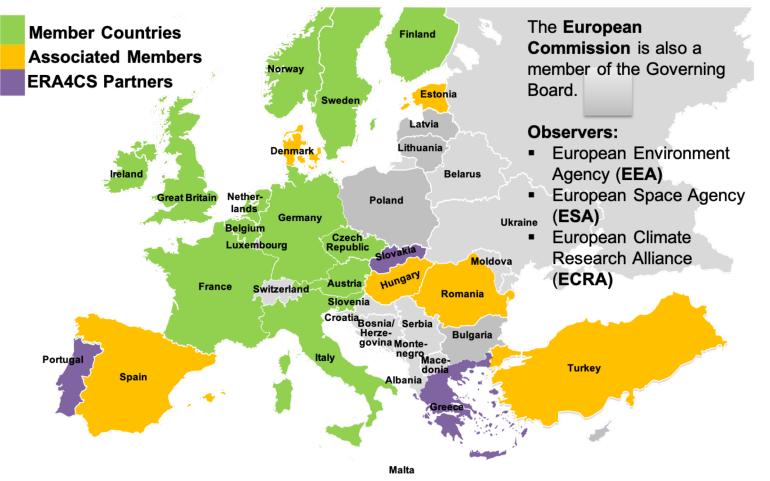
Supports the implementation of international agreements, such as the **COP21 Paris Agreement**, the **Sustainable Development Goals (SDGs)** and the **Sendai Framework for Disaster Risk Reduction 2015-**2030;

Since 2011, JPI Climate has been at the centre of pan-European investments in climate change research.

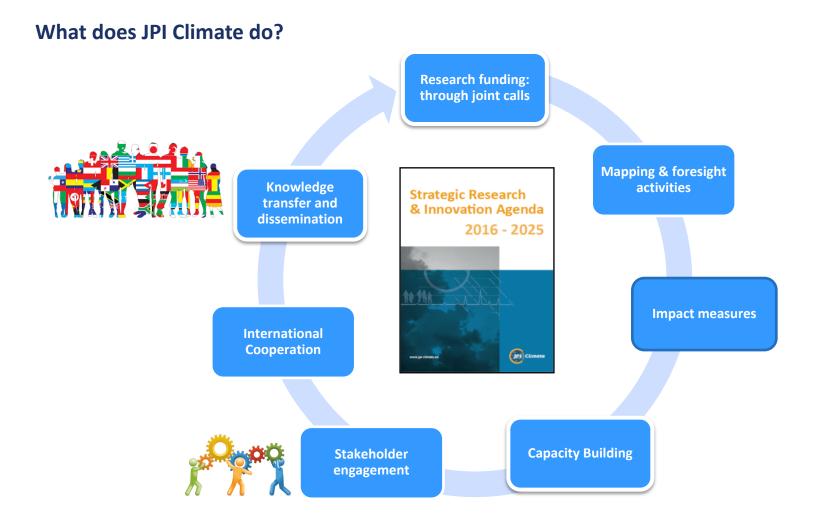




### JPI Climate member countries

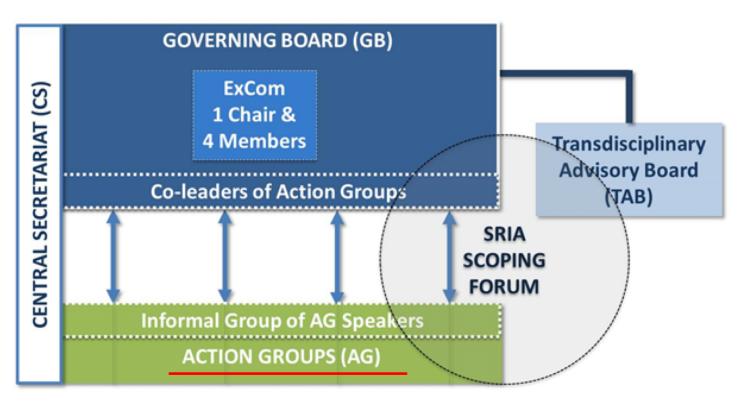








#### How does JPI Climate work?



JPI Climate "executive units" Responsible for the implementation of the SRIA 2016 - 2025





### JPI Climate Action Groups

"Climate predictability and inter-regional linkages" - 2015 Joint Call with the Belmont Forum (8 collaborative projects)

#### "European Research Area for Climate Services (ERA4CS)"

- Flagship project in climate services (26 collaborative projects)

#### "Assessment of Cross(X)-sectoral climate Impacts and pathways for Sustainable transformation (AXIS)"

- Transnational research projects to contribute to the implementation of the European Roadmap for Climate Services (10 collaborative projects)

#### "Internationalisation of JPI Climate (SINCERE)"

- Strengthening International Cooperation on Climate Change Research (22 partners, including the African Academy of Sciences)

#### "Next generation of climate science in Europe"

- Joint call with JPI Oceans (4 collaborative projects)
- Knowledge Hub on sea level rise (JPI Climate & JPI Oceans)

#### "Enabling societal transformation in the face of climate change"

- 9 collaborative projects completed
- New joint call launched in October 2019 SOLSTICE (7 collaborative projects)

#### "Greenhouse gas emissions, removals and management systems"

- Report on the series of workshops on exploring carbon neutrality and the balance of greenhouse gas (GHG) emissions and removals (available in the <u>JPI Climate website</u>)

- Knowledge Hub on climate neutrality (in preparation)



#### JPI Climate Joint Calls

Joint Calls



#### ECCA2021

Joint Calls

2019 Call SOLSTICE

2019 JPI Climate/JPI Oceans Joint Call

2016 Call Description

2016 Call Projects

2015 Call Projects

2013 Call Projects

**Funded projects** 

As a tool for alignment of research between the member countries, JPI Climate has implemented some of the priorities identified in its Strategic Research and Innovation Agenda through a set of Joint Transnational Calls. To-date, there have been 3 calls:

- 2019 SOLSTICE Enabling Societal Transformation in the Face of Climate Change
- · 2019 JPI Climate & JPI Oceans Joint Transnational Call on Next Generation Climate Science in Europe for Oceans
- 2018 AXIS Joint Call for Transnational Collaborative Research Projects
- 2016 ERA4CS Joint Call on Researching and AdvancingClimate Services Development
- 2015 Call for Climate Services Collaborative Research action on Climate Predictability and Inter-regional Linkages (together with the Belmont Forum)
- 2013 Call for Transnational Collaborative Research Projects



### JPI Climate funded projects (>60 to date)

	HOME   - ECCA 2021 -   INTRANET   CONTACT		
	ate		
	About Us   Strategy   News & Events   Activities   Publicat	tions & Media   E	ERA4CS   SINCERE   AXIS
ECCA2021	Funded projects by JPI Climate		
Joint Calls			
Funded projects	JPI Climate Joint Transnational Call on "Enabling Societal Transformation in the Face of Climate Change" (SOLSTICE)		
ERA-NET for Climate	Project	Website	Funding countries
Services SINCERE	CCC-CATAPULT: Challenging the Climate Crisis: Children's Agence to TAckle Policy Underpinned by Learning for Transformation	CCC-CATAPUL	T Finland, Ireland, Italy, UK
SOL STICE AXIS	Just-Scapes: Environmental justice analysis to advance rural landscape transformations in the face of climate change	Just-Scapes	Czech Republic, France, UK
Climate action in post COVID-19 era	202CM: Overcoming Obstacles and Disincentives to Climate Change Mitigation: A cross-cutting approach by human and social sciences	202CM	Belgium, France, Norway
Sea Level Rise Knowledge	ROLES: Responsive Organising for Low Emission Societies	ROLES	Italy, Norway, UK
Hub JPI Climate CSA	JUSTDECARE: Socially Just and Politically Robust Decarbonisation A Knowledge Base and Toolkit for Policymakers	on JUSTDECARB	Austria, Czech Republic, Norway, UK
Co-alignment	SOLARIS: SOLidarity in climate change Adaptation policies: towards more socio-spatial justice in the faceof multiple RISks	SOLARIS	Belgium, Finland, France, UK
	CLEAN Cultures: An approach for innovative Climate Learning, Evaluation and Action in Neighbourhoods	CLEAN Culture	s Austria, France, Italy, Norway
	IDI Climate & IDI Oceans, Joint Transnational Call on the Next Generation Climate Science in Europe for Oceans		

JPI Climate & JPI Oceans Joint Transnational Call on the Next Generation Climate Science in Europe for Oceans



#### **Biodiversity & Climate Change: a strategic priority**

Biodiversity and climate change is considered a **priority** for JPI Climate:

• Biodiversity-related issues were directly addressed in the JPI Climate **Strategic Research Agenda** (SRA, 2011);

- Biodiversity is considered in the JPI Climate Strategic Research and Innovation
   Agenda (SRIA) 2016-2025, under its three overarching challenges:
  - ✓ Understanding the processes and consequences of climate change;
  - Improving knowledge on climate-related decision-making processes and measures;
  - Researching sustainable societal transformation in the context of climate change.









### **Biodiversity & Climate Change: JPI Climate funded projects**

- Social-Ecological Transformations: HUMan-ANimal Relations Under Climate Change in NORthern Eurasia (HUMANOR 2013 call)
- Improving PREdictability of circumboREAL forest fire activity and its ecological and socioeconomic impacts through multi-proxy data comparisons (*PREREAL – 2015 call*)
- Integrated services and approaches for Assessing effects of climate change and extreme events for fire and post fire risk prevention (SERV-FORFIRE – ERA4CS call)
- Co-development of CLimate services for adaptation to changing Marine Ecosystems (CoCLiME – ERA4CS call)
- Multisectoral analysis of climate and land use change impacts on pollinators, plant diversity and crops yields (MAPPY – AXIS call)
- Environmental justice analysis to advance rural landscape transformations in the face of climate change (*Just-Scapes SOLSTICE call*)



**Biodiversity & Climate Change: opportunities** 

As part of the collaboration between JPI Climate and BiodivERsA, the following have been identified:

- ✓ Research priorities and needs in biodiversity and climate change;
- ✓ Potential joint actions and instruments to address these priorities and needs;
- ✓ Possible **frameworks** to implement these priorities and needs.





# BiodivERsA/European Biodiversity Partnership Past, present, future

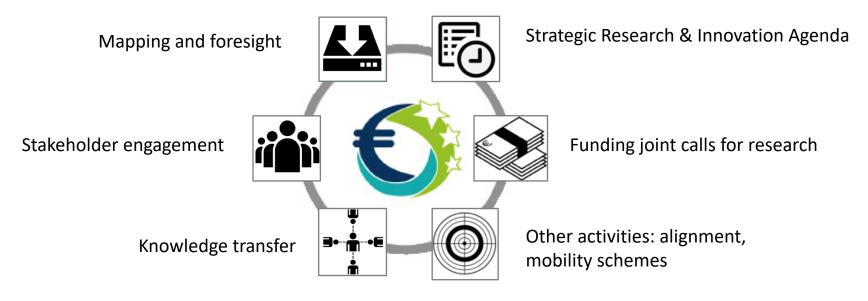
Hilde Eggermont, BelSPO BiodivERsA Vice-Chair Chair of the European Biodiversity Partnership





#### **BiodivERsA in a nutshell**

- Different ERA-net Co-funded actions (BiodivERsA1, BiodivERsA2, BiodivERsA3, BiodivScen, BiodivClim, BiodivRestore).
- Biodiversity funding in the order of 235M euros total cost (incl 150M in cash) > 121 collaborative projects.
- 39 partners from 25 European and Associated countries.





### Activities focusing on the nexus between biodiversity & climate change:

#### (1) BiodivClim COFUND Action (2019 – 2024)

21 projects funded, covering four non-exclusive themes:

- Consequences of climate change on biodiversity and nature's contributions to people
- Climate-biodiversity feedback processes
- Potential of nature-based solutions for mitigating and adapting to climate change
- Synergies and trade-offs between policies on biodiversity, climate and other relevant sectors, and the role of agents of change.

Also, a series of joint activities to advance joint programming, science-based policy support, stakeholder engagement, and internationalisation of R&I.



(2) BiodivERsA has also funded relevant projects through other joint calls since 2008 - mainly or partially focussing on climate change:

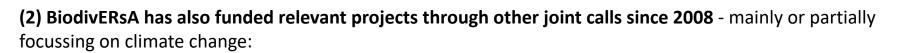
- 2008 Joint Call 'Global Change & biodiversity dynamics' (9 projects)
- 2010-2011 Joint Call 'Biodiversity, Ecosystem Services & their valuation' (1 project)
- 2011-2012 Joint Call 'Biodiversity scenarios, tipping points & resilience' (7 projects)
- 2012-2013 Joint Call 'Biological Invasions' (4 projects)
- 2013-2014 Joint Call 'Synergies & Trade offs food supply, biodiversity & EC' (4 projects)



• 2015-2016 Joint Call ' Biodiversity Dynamics – Soils; Blue & Green Infrastructures' (10 projects)

## **FINISHED**





- 2017-2018 'Scenarios of biodiversity & ecosystem services' (13 projects)
- 2019-2020 'Biodiversity & Climate change' (21 projects)
- 2020-2021 'Conservation & Restoration of degraded ecosystems' (??)











Climate Ebiodiversa





biodiversa

Adaptation of trees and forests to climate change: the importance of genetic variability

### **Policy Briefs**

Examples =>





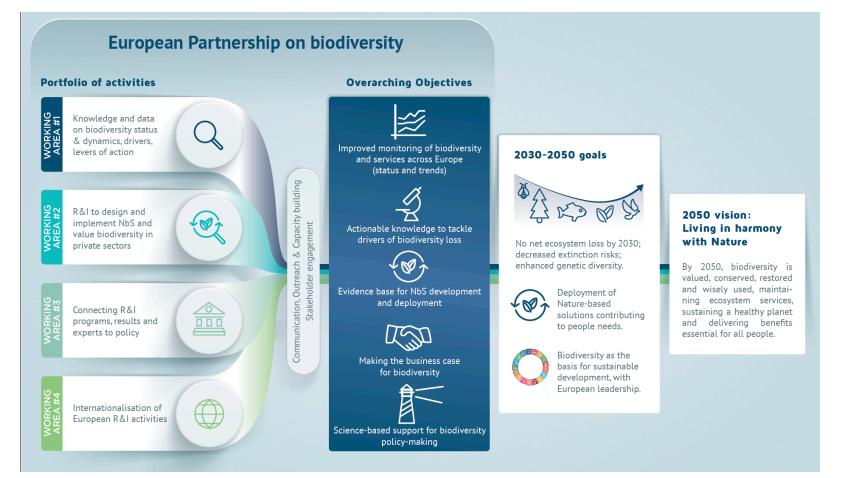


#### Key features of the European Biodiversity Partnership

- Co-funded European Partnership
- Co-creation between BiodivERsA and the European Commission (DG R&I, DG ENV), with renewed ambition, comprehensive portfolio of activities, and extended membership (35 countries, >60 members):
  - Ministries of Research, funding organisations, foundations
  - Ministries of Environment, Environmental Protection Agencies
- Lifespan: end 2021 end 2028
- Total budget (tentative) 580 M euro
- Part of the EU Biodiversity Strategy 2030 to 'make the bridge between science, policy and practice and make nature-based solutions a reality on the ground'.
- Covering all environments



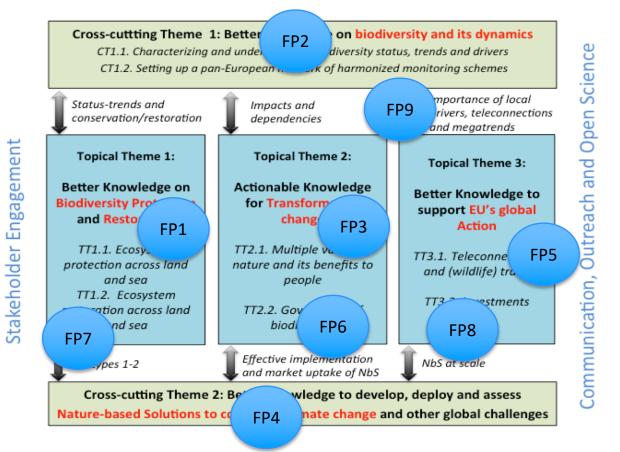
#### **Overview of the European Biodiversity Partnership**







#### SRIA of the European Biodiversity Partnership

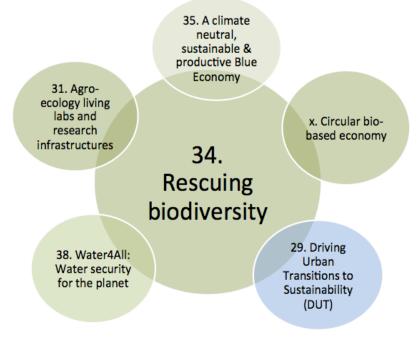




#### **Complementarities Horizon Europe WP**

Articulation with relevant initiatives, including:

- Horizon Europe RIAs, CSAs...
- Other partnerships:



- Several missions
- Many European/international initiatives including JPIs



## **Collaboration JPI Climate/BiodivERsA:**

# Common priorities, activities/actions, frameworks & opportunities

Hilde Eggermont, BelSPO BiodivERsA Vice-Chair Chair of the European Biodiversity Partnership Alexandre Fernandes, BelSPO Senior Science Officer, Central Secretariat JPI Climate



#### **Biodiversity and Climate Change: Priorities and needs**

Research priorities and needs identified by the JPI Climate Transdisciplinary Advisory Board (TAB) Working Group (WG) on Biodiversity and Climate Change:

- Understanding the **underlying drivers and pressures** of climate change and biodiversity loss, particularly in **shorter time scales** (next 10 years);
- Limits and potential of market-based regulations for biodiversity loss and climate change;
- Net-zero pathways and their impacts on biodiversity loss and climate justice;
- Governance systems for biodiversity and climate change;
- International dimensions of biodiversity and climate change;
- The impact of land management (especially forest management) on carbon fluxes and biodiversity;
- Biodiversity and climate as drivers of human health outcomes.

A more detailed list of research priorities and needs can be found in the **background document**.



#### **Biodiversity and Climate Change: Actions and instruments**

Actions and instruments identified by the JPI Climate Transdisciplinary Advisory Board (TAB) Working Group (WG) on Biodiversity and Climate Change:

- Foresight activity on key indirect drivers of climate change and biodiversity loss;
- White Paper on biodiversity, climate and human health;
- Joint activity (workshop) to explore the key messages from the IPBES/IPCC report and how a JPI Climate/BiodivERsA collaboration could address them
- **Report** with key science messages to inform the implementation of EU policy programmes (e.g. European Structural Funds) related to biodiversity and climate.

A more detailed list of potential joint actions and instruments can be found in the **background document**.



### **Biodiversity and Climate Change: Potential frameworks for collaboration**

#### JPI Climate:

- 5th European Climate Change Adaptation conference (ECCA 2021) (May/June):
  - > Focus on **adaptation solutions**; webinar on **Nature-based Solutions**.
- European Facility for Climate Change (EFCC) and Knowledge Hubs (KHs):
  - KH on Climate Neutrality;
  - > Potential KH on integrated scenarios for climate change research and assessment.

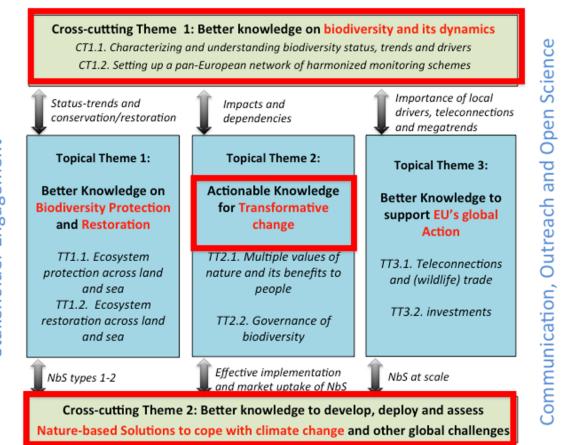
#### **Opportunities in Horizon Europe:**

- Coordination and Support Action (CSA) on support to processes triggered by IPBES and IPCC (HORIZON-CL6-2021-BIODIV-01-21);
- CSA on **maximising the impact** and synergy of European climate change research and innovation (HORIZON-CL5-2021-D1-01-03);
- CSA on supporting and standardising **climate services** (HORIZON- HORIZON-CL5-2021-D1-01-06).





#### **Common priorities**



Stakeholder Engagement



### **Possible Joint Activities**

- **Research & Innovation workshops**: maximizing the impact of biodiversity & climate change research, by promoting networking between biodiversity & climate researchers and relevant stakeholders from public and private sector incl possible link Climate-KIC;
- **Support global science-policy efforts** (link with IPBES/IPCC; CBD/UNFCCC), for example producing synthesized knowledge products to feed the assessments, capacity building activities for biodiversity and climate scientists to engage in these processes;
- **Foresight activities**: identifying priorities for future research related to biodiversity & climate change interlinkages;
- Joint communication and outreach activities for policymakers and practitioners, and joint research uptake activities ("valorization"), to increase the impact of the funded research and other types of outcomes;
- Joint knowledge hubs => promote the generation of new cross-disciplinary knowledge. This could possibly be linked to supporting global science-policy efforts.



#### **Possible Frameworks**

- BiodivClim ERA-NET COFUND (short-term)
- European Biodiversity Partnership (long-term) Flagship Programmes
  - 1: Supporting biodiversity and ecosystem protection across land and sea
  - 2: Supporting biodiversity and ecosystem restoration across land and sea
  - 3: Better knowledge to develop, deploy and assess nature-based solutions (except NbS for agriculture and forestry)
  - 4: Biodiversity for supporting sustainable agriculture and forestry (including spatial planning, agro-ecology and NbS for agriculture and forestry)
  - 5: Supporting societal transformation for the sustainable use and management of biodiversity
  - 6: Supporting EU's contribution to global biodiversity conservation
  - 7: Biodiversity and (Eco/One)Health
  - 8: Reinforcing transnational monitoring of biodiversity to better characterize, understand and report on biodiversity dynamics and trends





# Update of the policy landscape, with a focus on the role of biodiversity for climate change adaptation and mitigation

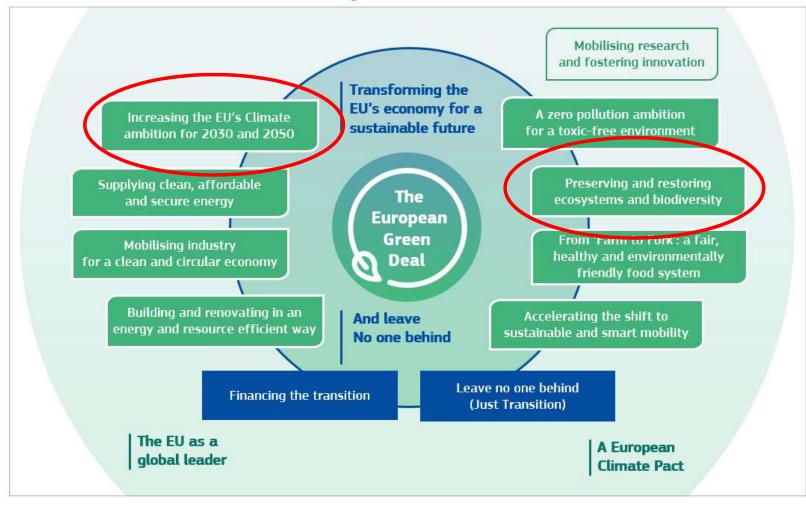
Peter Löffler, European Commission, DG CLIMA Update of the policy landscape, with a focus on the role of biodiversity for climate change adaptation and mitigation

BiodivErSA & JPI Climate Strategic workshop, 13 April 2021

Peter Löffler, European Commission, DG CLIMA



#### The European Green Deal







The E globa

- EU Biodiversity Strategy for 2030
- Climate neutrality by 2050 & raised ambition for 2030
- New EU strategy on adaptation to climate change
- New EU Forest Strategy





## **EU Biodiversity Strategy for 2030**

- Reverse biodiversity decline and have Europe's biodiversity 'on the path to recovery by 2030'
- 30% target for protected areas, including carbon rich ecosystems
- Launching an EU nature restoration plan
- Objectives include better EU resilience and climate change mitigation/adaptation through nature-based solutions
- Vulnerability to climate change and shifts in vegetation zones to be taken into account



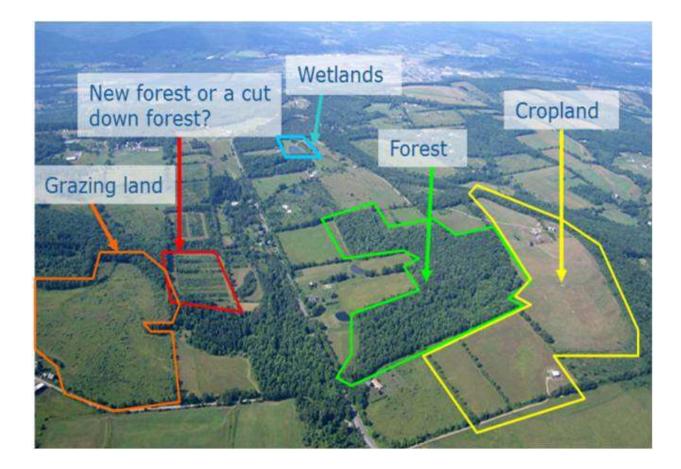


# Climate neutrality by 2050 & raised ambition for 2030

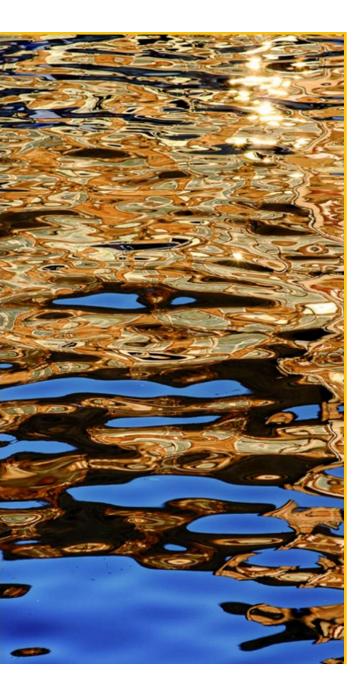
- March 2020: EU long-term strategy committing to climate neutrality by 2050
- March 2020:
   Commission proposing EU Climate Law
- December 2020:
   EU Leaders agreed to cut emissions
   by 2030 by at least 55%
- 'Fit for 55' package in the making



### Fit for 55, climate neutrality & LULUCF







### **New EU Adaptation Strategy**

- **Vision**: by 2050 the EU will be a climate-resilient society, fully adapted to the unavoidable impacts of climate change
- Objectives:
  - Smarter adaptation improving knowledge and managing uncertainty
  - More systemic adaptation support policy development at all levels and sectors
  - Faster adaptation speeding up adaptation across the board
  - Stepping up international action for climate resilience





### **New EU Adaptation Strategy**

#### **Promoting nature-based solutions for adaptation**

- The Commission will:
  - propose nature-based solutions for carbon removals, including accounting and certification in upcoming carbon farming initiatives;
  - develop the financial aspects of nature-based solutions and foster the development of financial approaches and products that also cover nature-based adaptation;
  - continue to incentivise and assist Member States to rollout nature-based solutions through assessments, guidance, capacity building, and EU funding





### **New EU Forest Strategy**

- Will build on Green Deal and the 2030 Biodiversity Strategy
- Roadmap published last year
- Public consultation open until 19 April
- Adoption planned for 2nd quarter 2021



# Thank you



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> European Commission

Slides 4, 7-9: Images by Peter Löffler



# Introduction to the break-out group session & allocation to break-out groups

Lise Goudeseune, BelSPO/BiodivERsA





### **Coffee break**

### 2:45-3pm







### **Recommendations from the break-out**

groups





### The Mission on Adaptation to Climate Change

Thomas Koetz, European Commission, R&I





### **Final comments & discussion**

Final comments from the participants towards a **common vision for collaboration** and **possible joint implementation plan**, incl. concrete actions, identification of activities and tools to address them, a possible timing, and prioritisation.



Moderated by Petra Manderscheid, BelSPO Executive Director JPI Climate



### **Closing & next steps**

Hilde Eggermont, BelSPO BiodivERsA Vice-Chair Chair of the European Biodiversity Partnership Alexandre Fernandes, BelSPO Senior Science Officer, Central Secretariat JPI Climate



### Thank you for attending!

