

The EuropaBON Network

Ian McCallum, Aletta Bonn, Hannah Moersberger, Inian Moorthy, Camino Liquete, Joachim Maes, Jessi Junker, Henrique Pereira, Ivelina Georgieva, Gabriela Popova, Lluís Brotons, Pedro Beja, W. Daniel Kissling, Maria Dornelas, Tom Breeze, Néstor Fernández, Anne Lyche Solheim, Cesar Capinha



iDiv



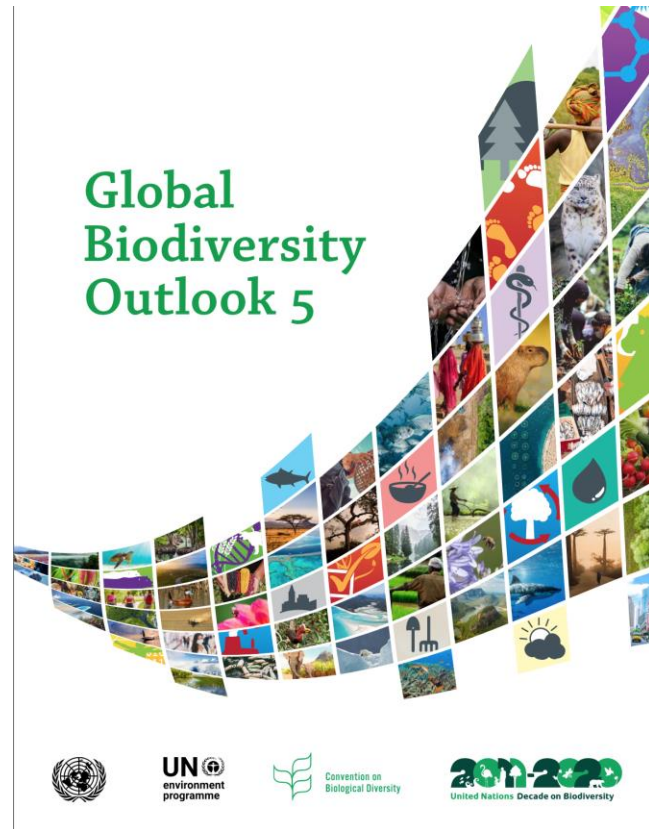
MARTIN-LUTHER-UNIVERSITÄT
HALLE-WITTENBERG



This project receives funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 101007492.



The biodiversity crisis



PNAS

Biological annihilation via the ongoing sixth mass extinction signaled by vertebrate population losses and declines

Gerardo Ceballos^{a,1}, Paul R. Ehrlich^{b,1}, and Rodolfo Dirzo^b

^aInstituto de Ecología, Universidad Nacional Autónoma de México, Mexico City 04510, Mexico; and ^bDepartment of Biology, Stanford University, S. CA 94305

Contributed by Paul R. Ehrlich. Received 22 March 2017; accepted 22 March 2017; reviewed by Thomas E. Lovejoy and Peter H. Raven

Trends in abundance and biomass of widespread European farmland birds: how much have we lost?

PETR VOŘÍŠEK,^{1*} FREDERIC JIGUET,² ARCO VAN STRIEN,³ JANA ŠKORPILOVÁ,¹
ALENA KLVAŇOVÁ¹ & RICHARD D. GREGORY⁴

PLOS ONE

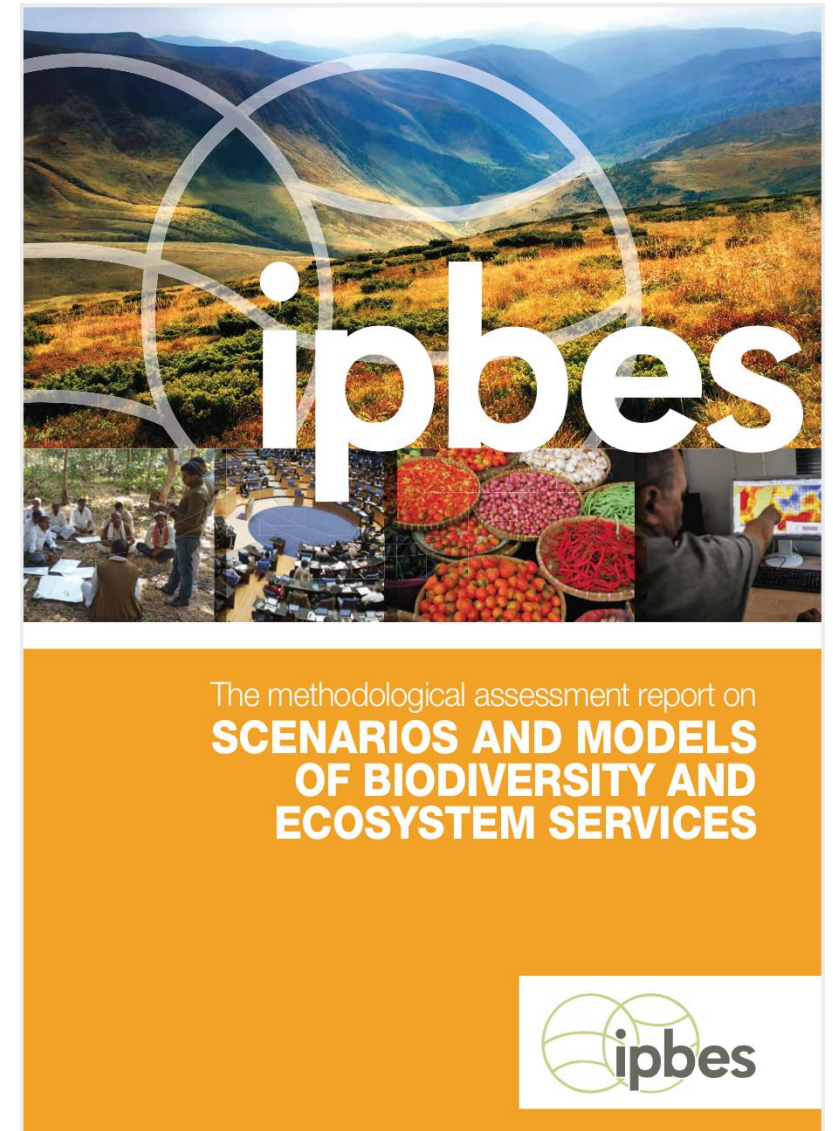
RESEARCH ARTICLE

More than 75 percent decline over 27 years in total flying insect biomass in protected areas

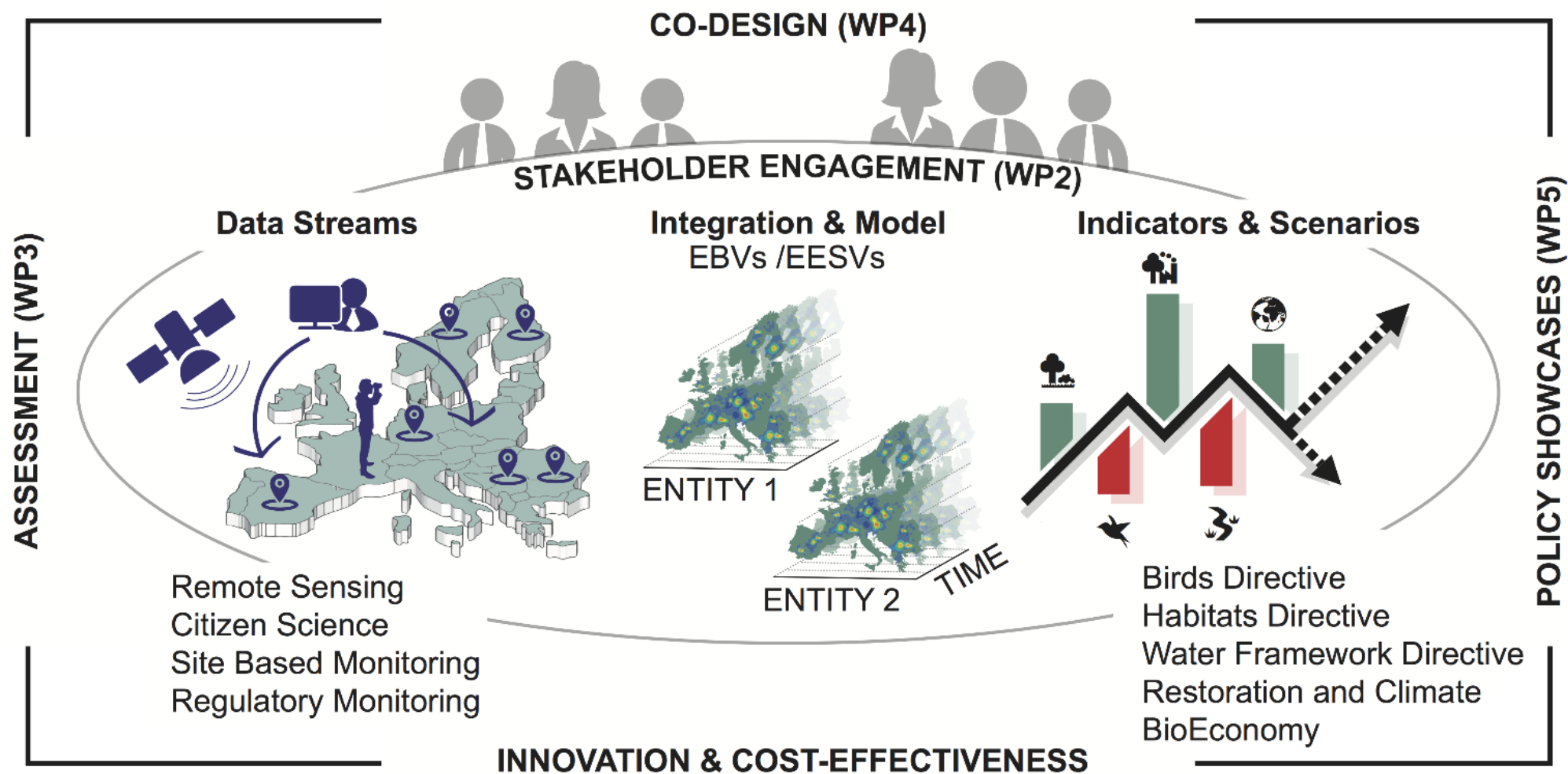
Caspar A. Hallmann^{1*}, Martin Sorg², Eelke Jongejans¹, Henk Siepel¹, Nick Hofland¹, Heinz Schwan², Werner Stenmans², Andreas Müller², Hubert Sumser², Thomas Hörren², Dave Goulson³, Hans de Kroon¹

The challenge

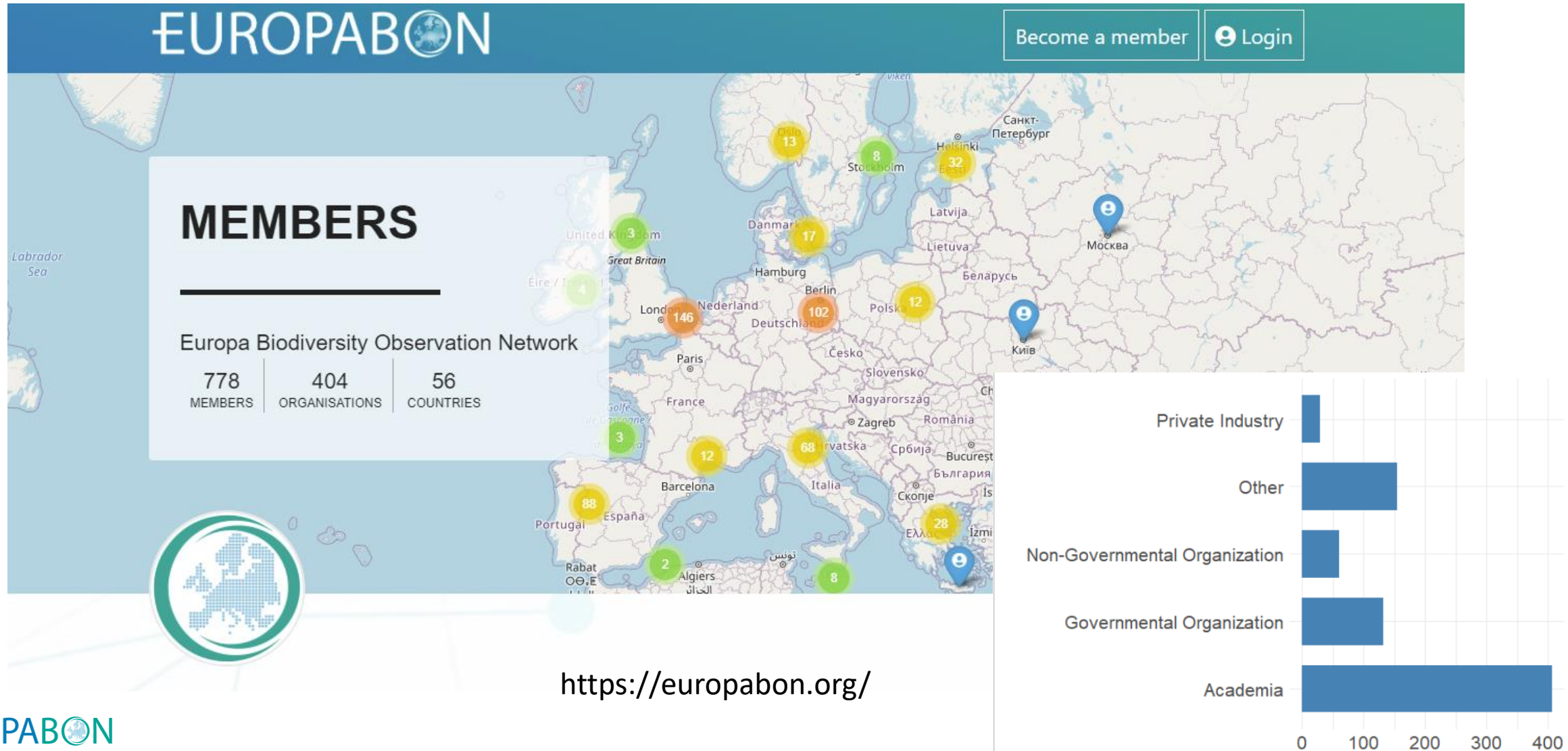
- Biodiversity change has complex spatial scaling patterns and temporal dynamics
- Biodiversity monitoring data is still very sparse in time and space and covers only some taxa
- Limited use of models and scenarios in biodiversity trend analysis and policy support



The Europa BON project



The EuropaBON Network



Benefits of membership

EUROPABON

HOME ABOUT PROGRAM

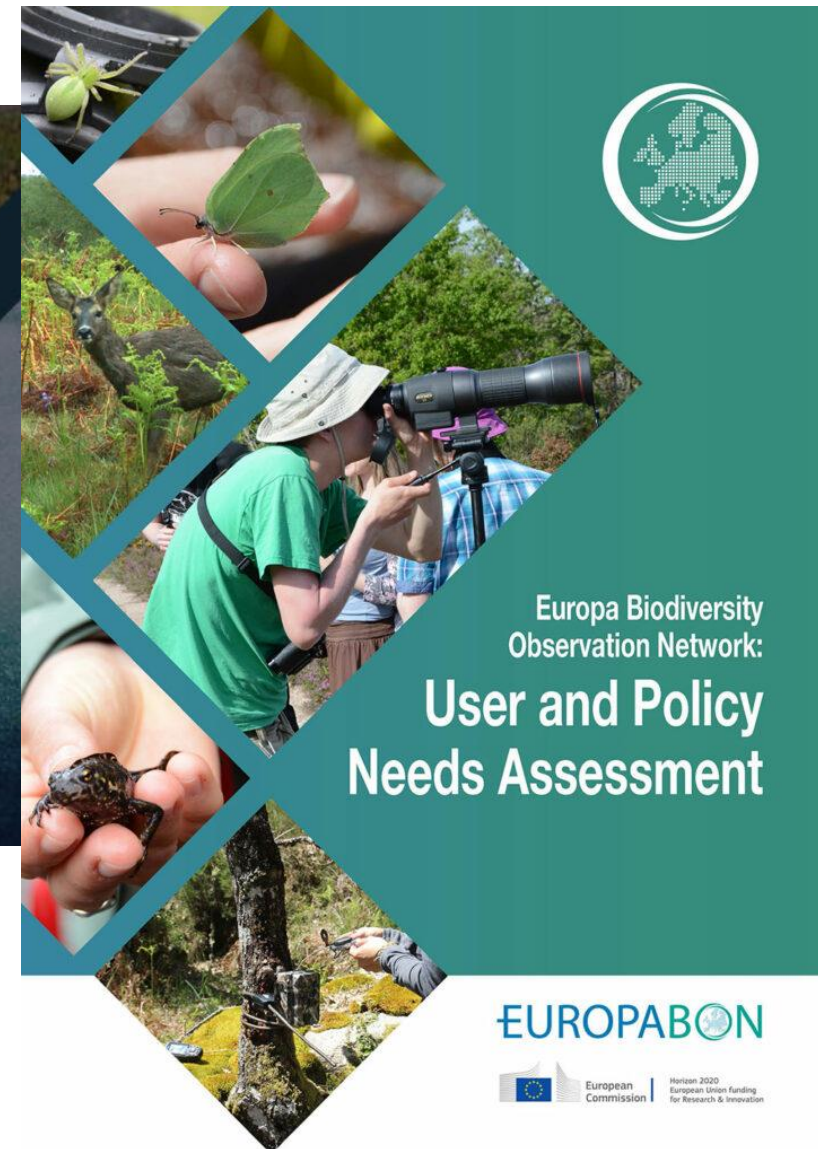
Novel Biodiversity Monitoring Methods workshop

Implementing novel methods to meet biodiversity monitoring needs

Virtual Zoom Workshop, May 11-13, 2022

REGISTER

EUROPABON



Europa Biodiversity
Observation Network:
**User and Policy
Needs Assessment**

EUROPABON

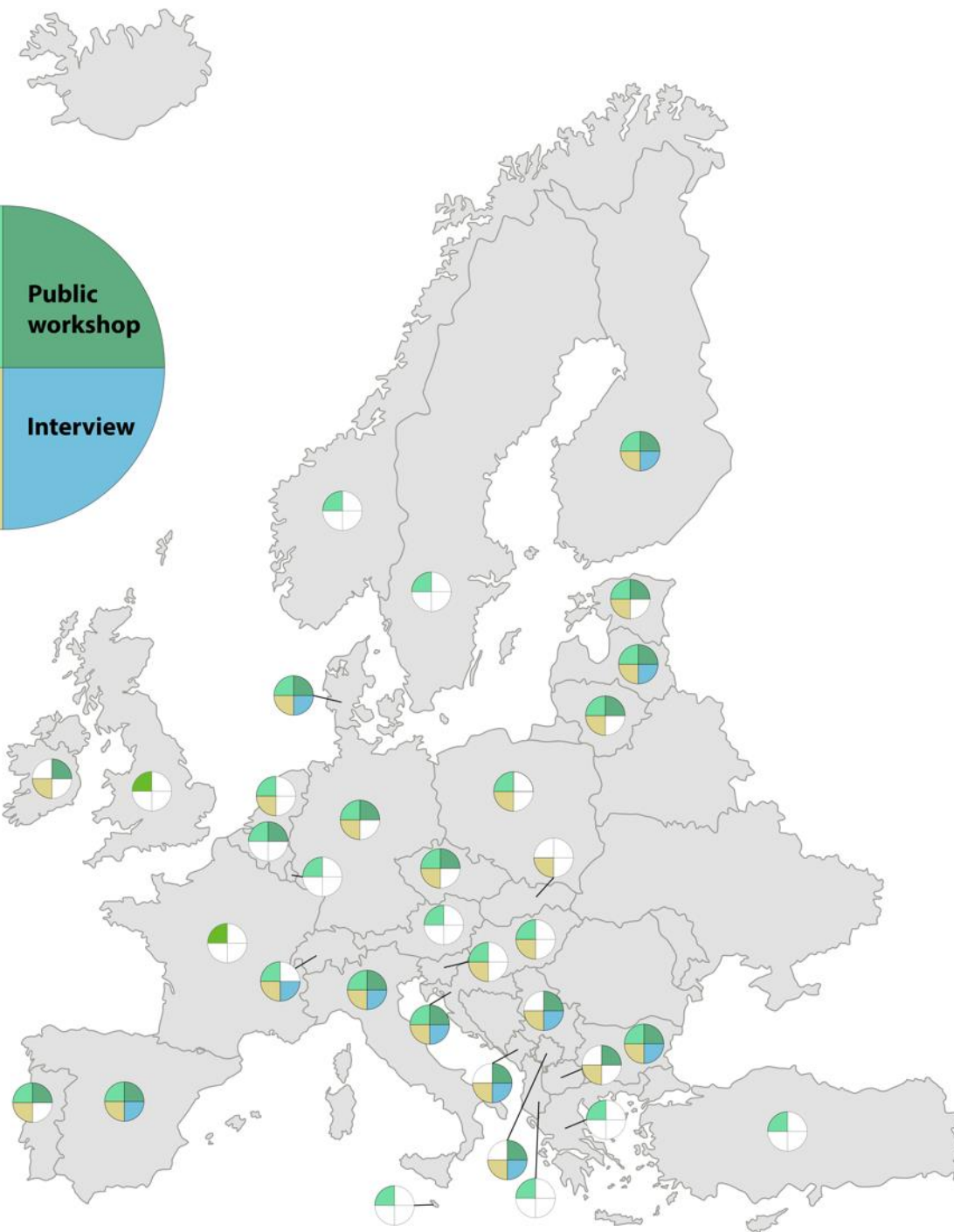
European Commission | Horizon 2020
European Union Funding
for Research & Innovation

Stakeholder participation



Wide participation of countries across Europe

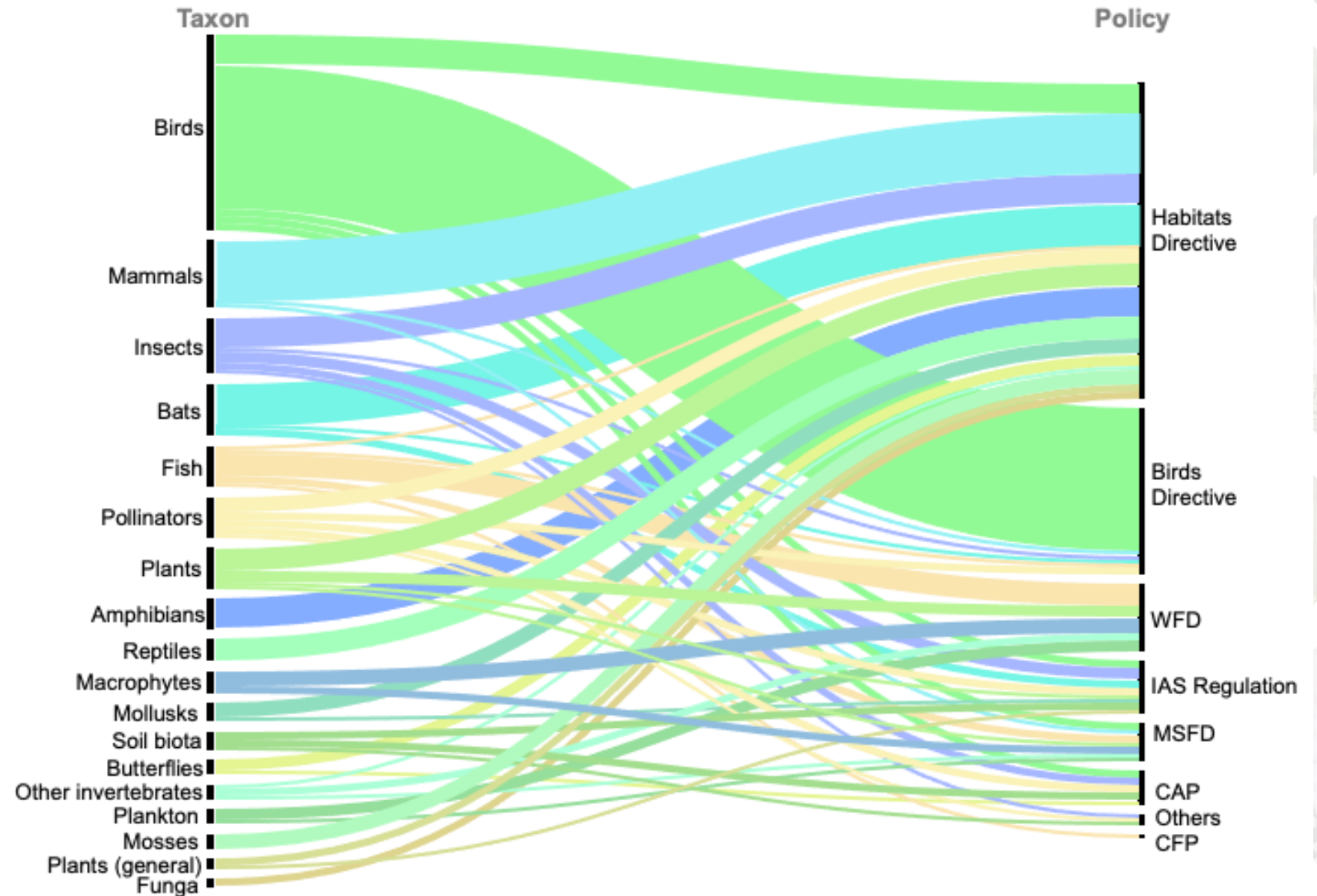
10 EC Services participated in one or more of the stakeholder events



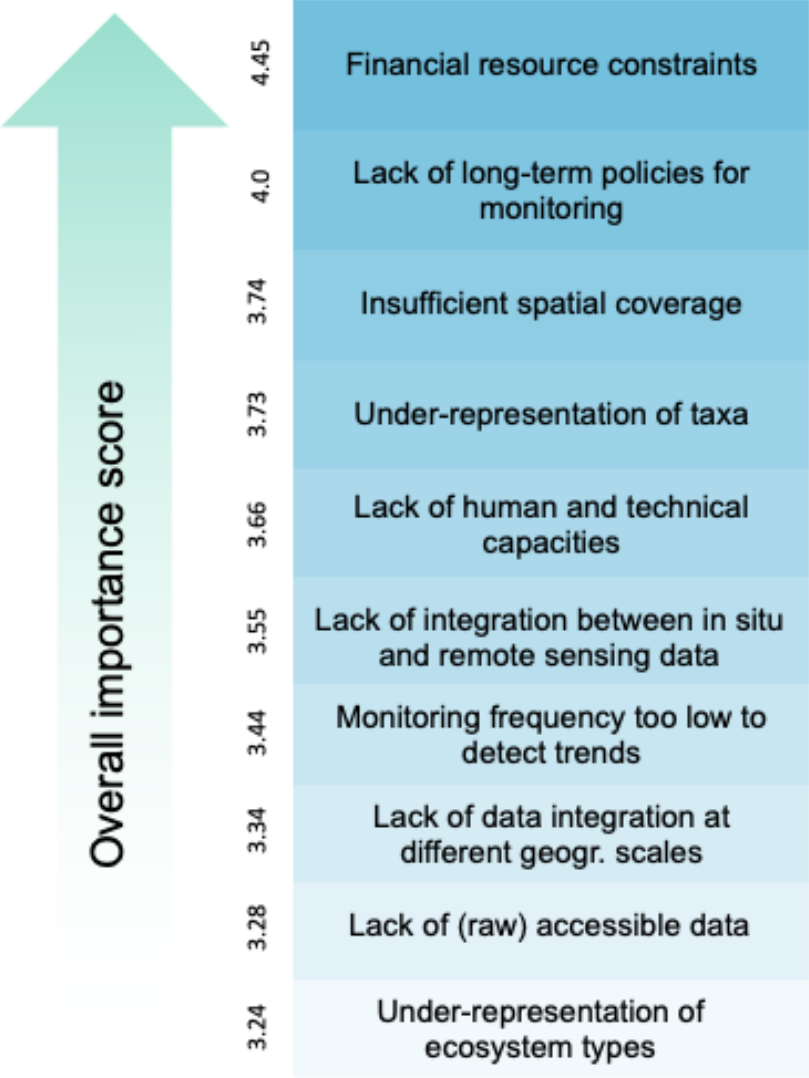
Ch2. Current biodiversity monitoring efforts

Majority of biodiversity monitoring informs on Habitats and Birds Directive

There is little cross-sector use of biodiversity data monitoring e.g., for climate & agriculture policies



Ch3. Challenges & roadblocks in biodiversity monitoring



Solutions expected from EuropaBON



Enhanced
coordination &
cooperation



Standardization,
enhanced data
gathering and sharing



Modelling and novel
technologies

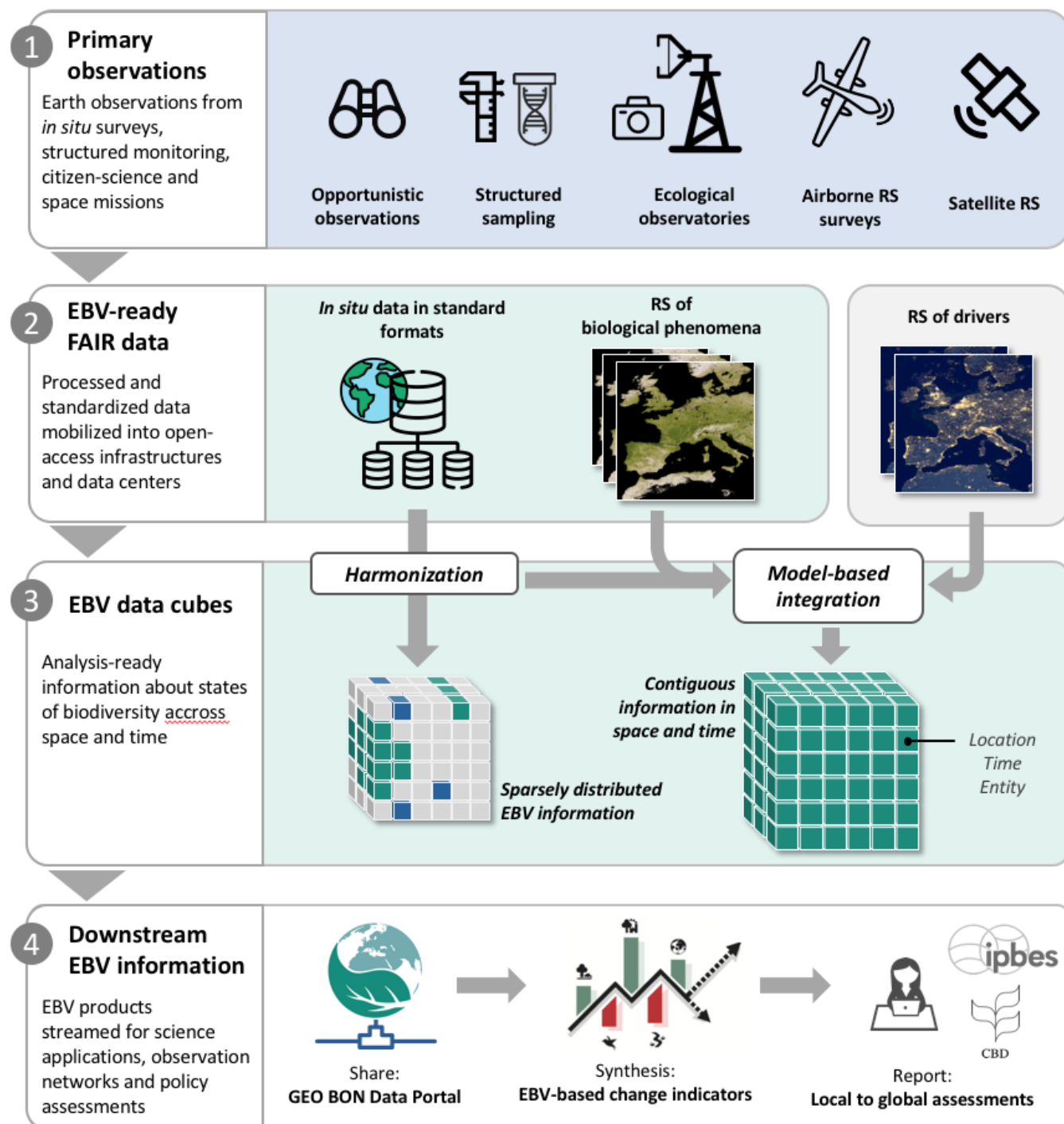


Financial resources



Capacity building &
stakeholder
engagement

The Essential Biodiversity Variables approach



Identifying Essential Biodiversity and Ecosystem Services Variables

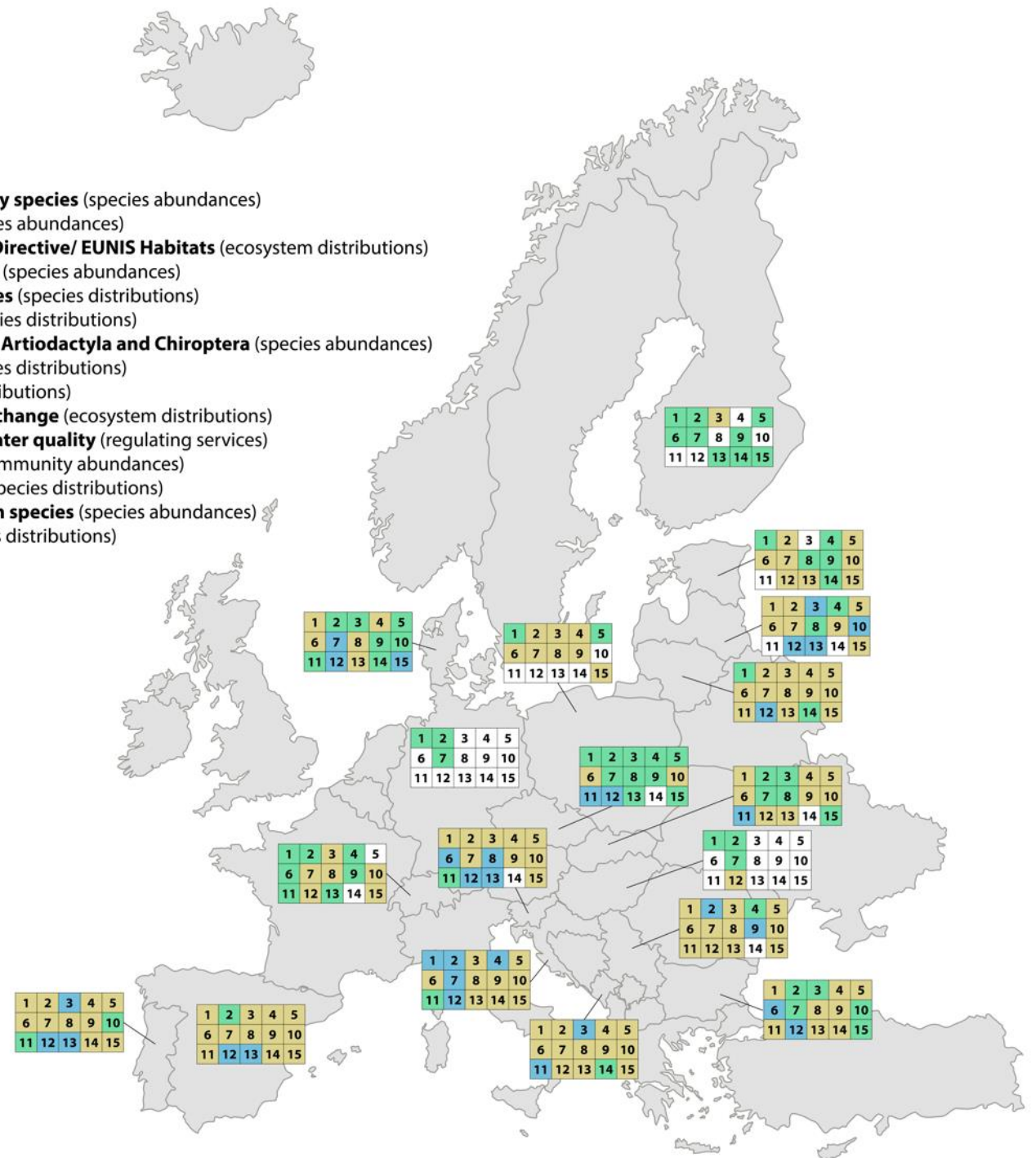
Majority of highly-ranked EBVs are not sufficiently monitored across Europe by member states or EU agencies.

EBVs and EESVs

1. **Birds: rare and priority species** (species abundances)
2. **Birds: common** (species abundances)
3. **Habitats in Habitats Directive/ EUNIS Habitats** (ecosystem distributions)
4. **Butterflies: grassland** (species abundances)
5. **Freshwater fish species** (species distributions)
6. **Invasive species** (species distributions)
7. **Mammals: Carnivora, Artiodactyla and Chiroptera** (species abundances)
8. **Plants: priority** (species distributions)
9. **Birds: all** (species distributions)
10. **Land-use/land cover change** (ecosystem distributions)
11. **Regulation of freshwater quality** (regulating services)
12. **Pollinator insects** (community abundances)
13. **Plants: all vascular** (species distributions)
14. **Marine harvested fish species** (species abundances)
15. **Mammals: all** (species distributions)

Status

N/A
monitored
not sufficiently monitored
not monitored



Next steps

Upcoming EuropaBON workshops

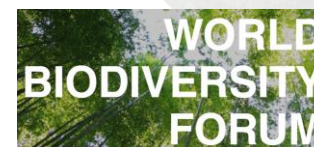
- Showcase mini-workshops: Fall 2022
- Annual stakeholder conference + policy expert meeting: fall 2022
- Co-design of a European BON: late 2022

Upcoming presentations at international conferences:

Continue integrating stakeholders in EuropaBON co-design:

- Ongoing efforts to expand member database
- Surveys/interviews on cost-effectiveness of monitoring systems: May 2022
- Members contacted to co-design various aspects, participate in events, provide feedback, etc.

Continue close collaboration with EC, Biodiversa+, The Knowledge Centre for Biodiversity (KCBD), JRC, EEA and more ...



Next steps

Co-design Biodiversity Monitoring Coordination Center Terms of Reference (A new legal biodiversity governance framework)

- Exploring existing models of international coordination
- Present and discuss initial ideas in fall 2022 at EuropaBON annual conference

... Become a EuropaBON member – ~700 members and growing: <https://europabon.org/register/>

... Read the report: <https://preprints.arphahub.com/article/84517/>

