

User and Policy Needs Assessment

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All EuropaBON Partners



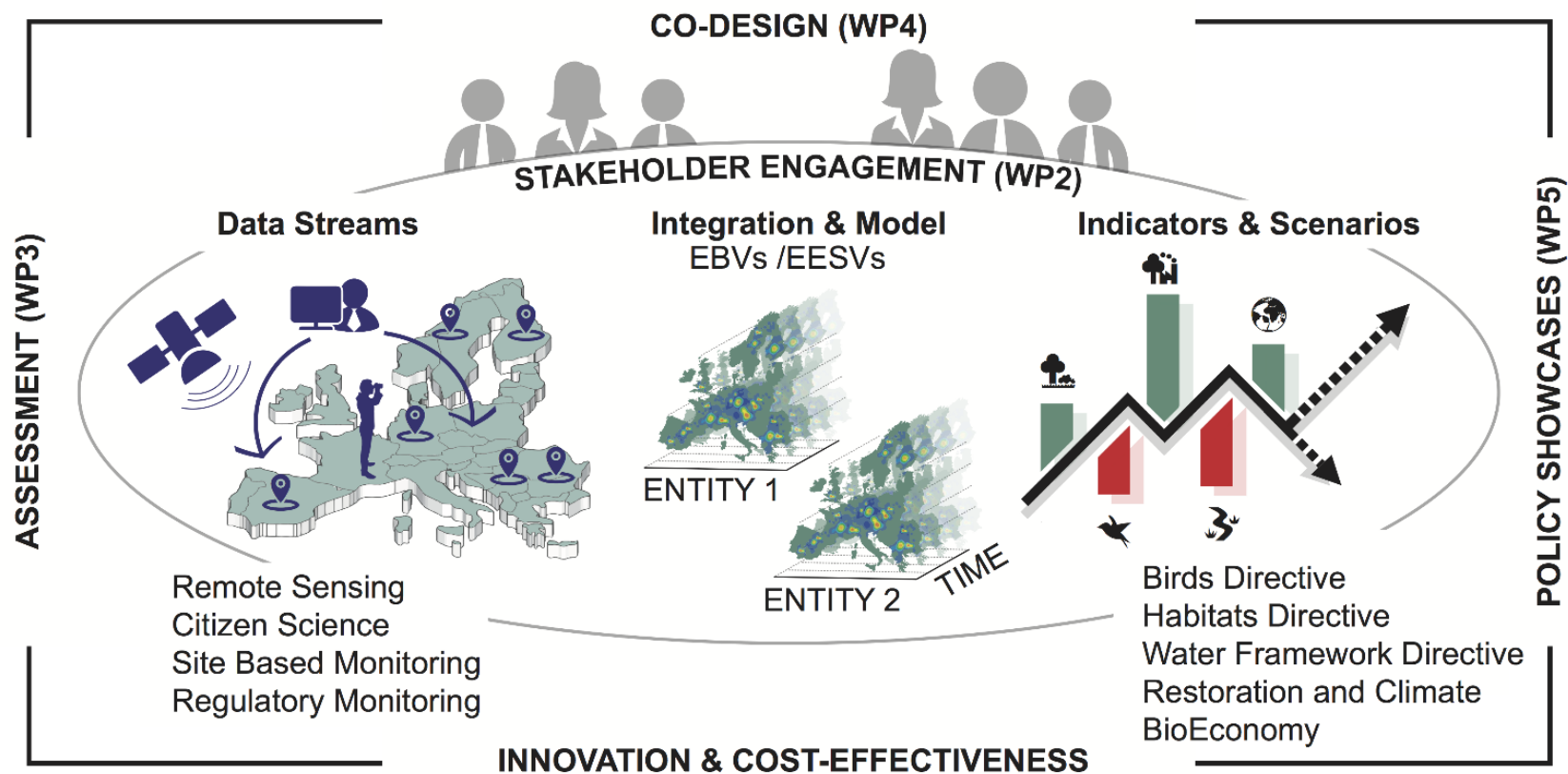
EU Green Deal

Europe must lead the transition to a **healthy planet** and a **new digital world**.

But it can only do so by **bringing people together**



EUROPABON



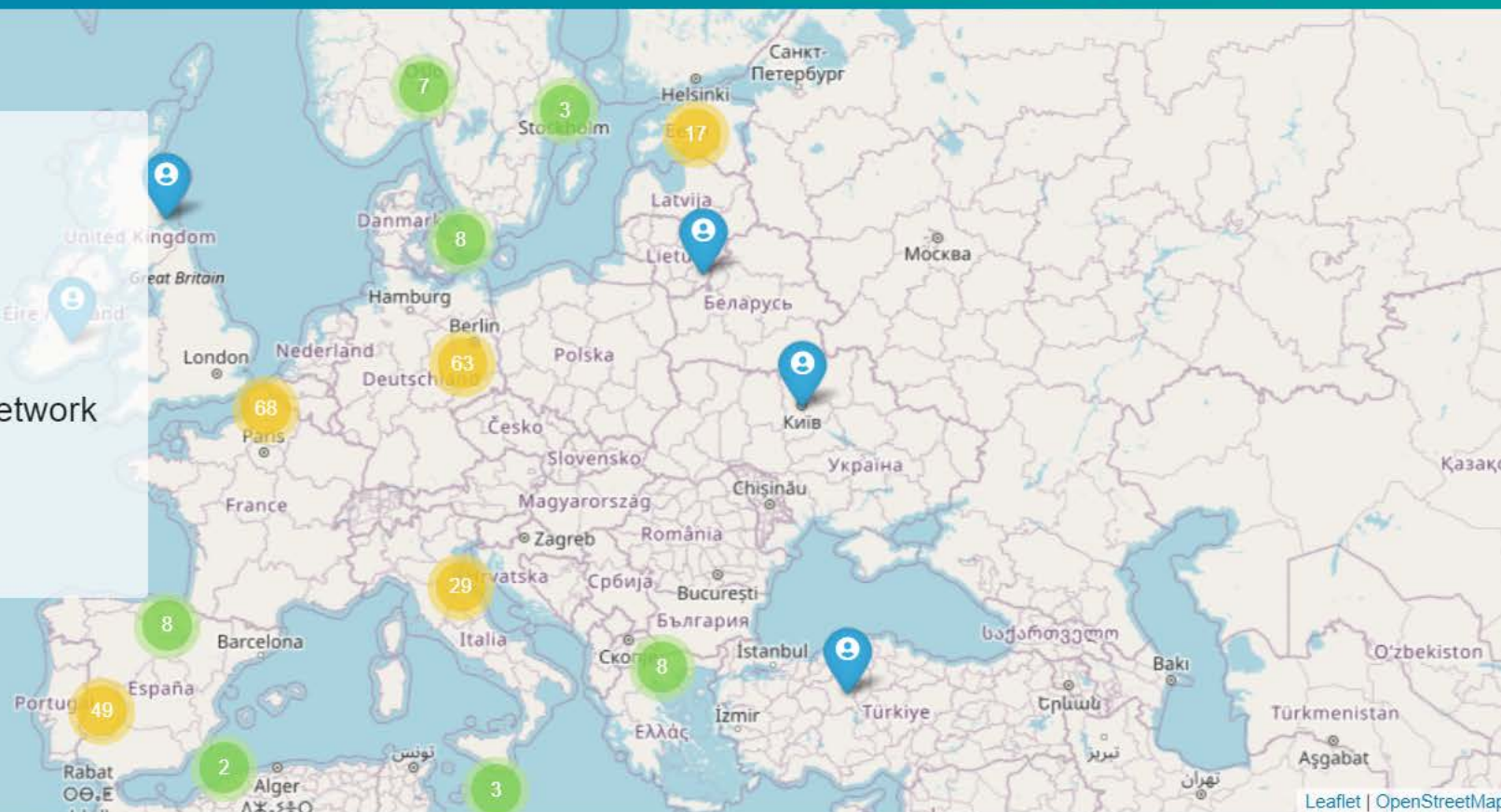
MEMBERS

Europa Biodiversity Observation Network

331
MEMBERS

209
ORGANISATIONS

42
COUNTRIES



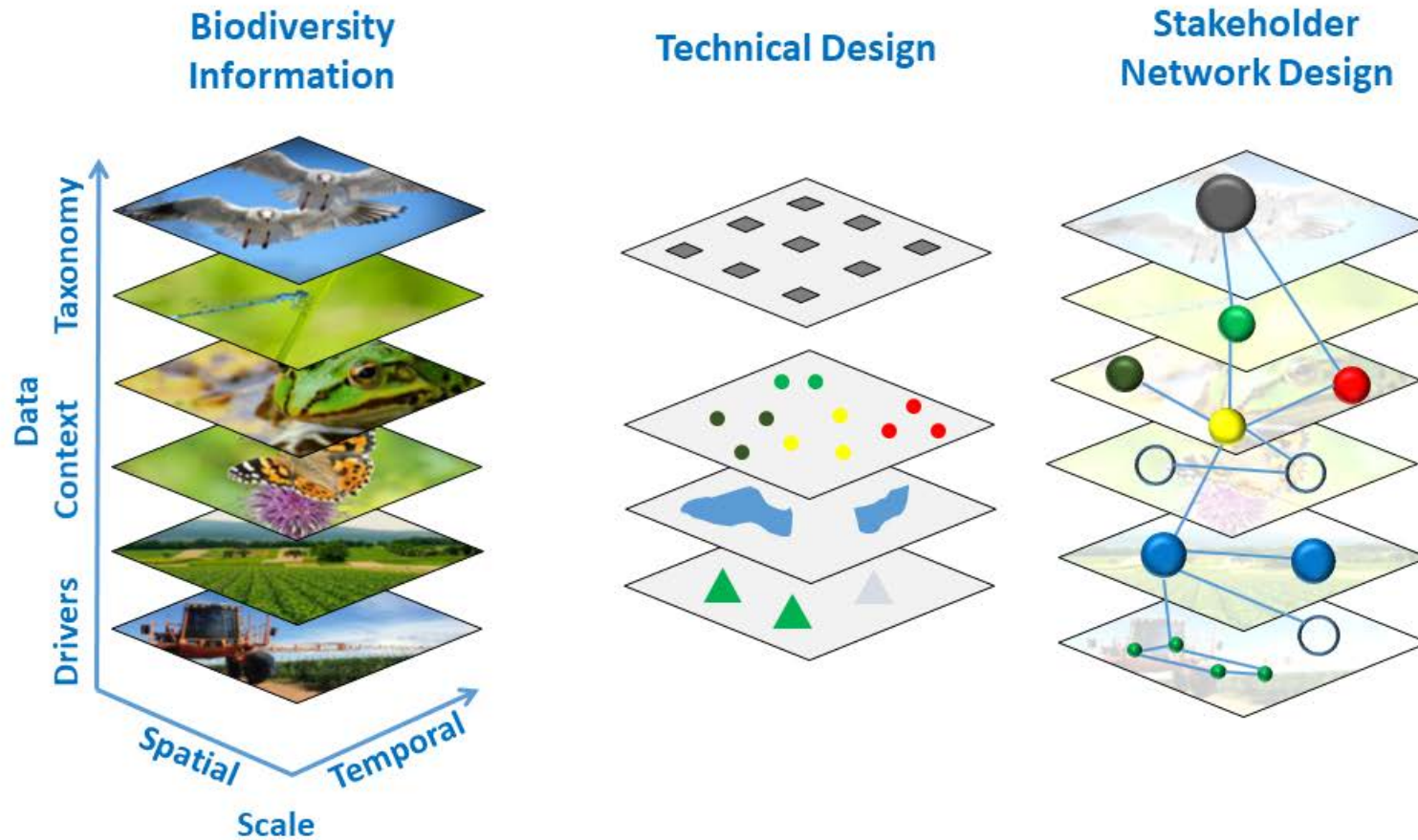
WP2 Stakeholder Engagement: Tasks

Task List

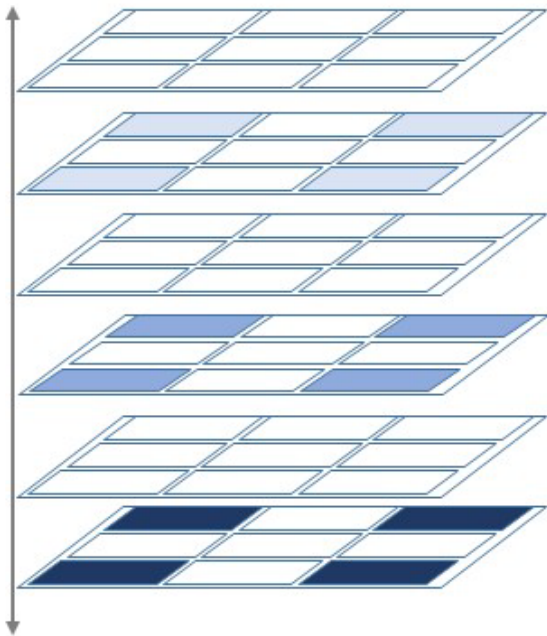
- T 2.1 - Identifying stakeholders
- T 2.2 – User and policy needs assessment
- T 2.3 – Thematic workshops facilitating knowledge-exchange
- T 2.4 – Establishing the Terms of Reference of a Biodiversity Monitoring Coordination Centre
- T 2.5 – Communication and Dissemination



Biodiversity Observation Networks – what do we have?



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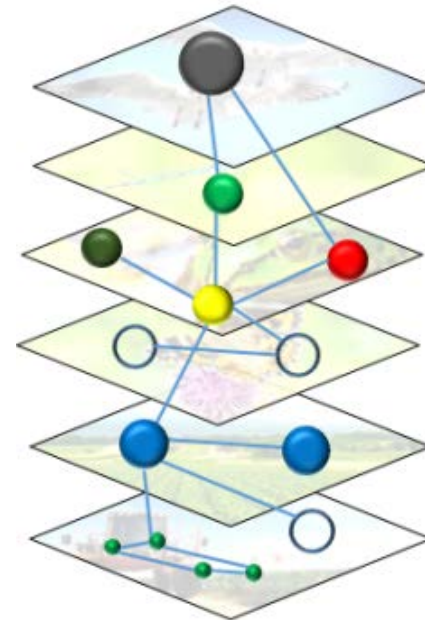
Top Down Monitoring

- Standardisation of sampling sites & methods
- Definition of strict standards for data collection protocols, data mobilization and quality
- Highly controlled & structured design

+

Development of Stakeholder network
and capacity-building of partners

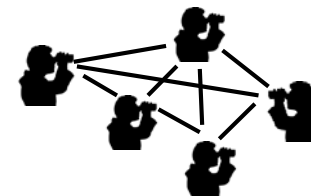
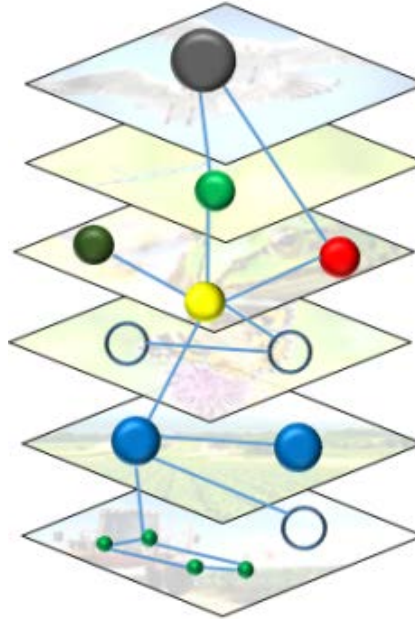
Stakeholder Network Design



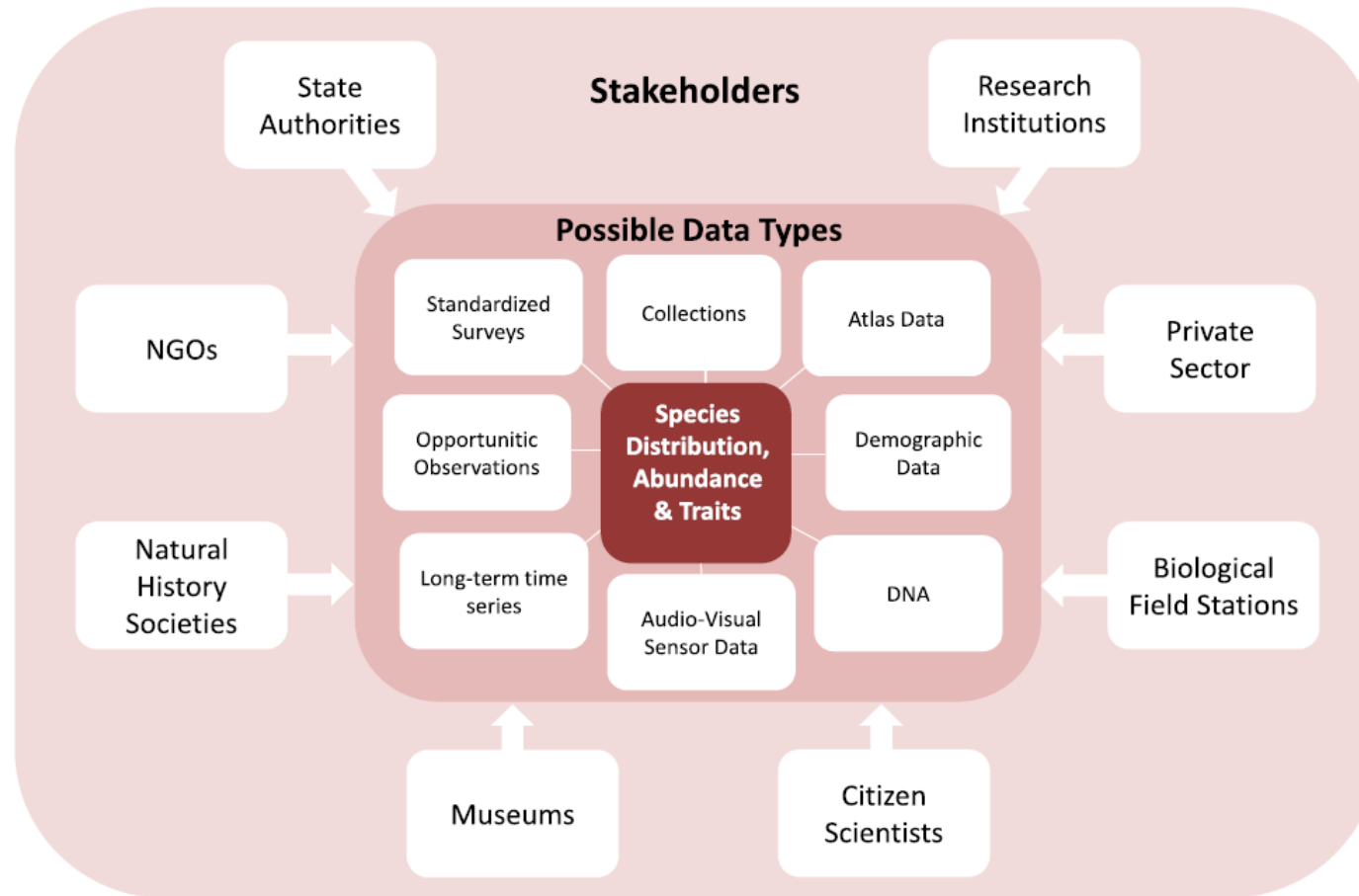
BONs – who is involved?



Stakeholder
Network Design






Effective Biodiversity Monitoring needs a Culture of Integration



Collaborative leadership - sense of shared ownership & innovation potential

What are the Benefits - Examples?

Stakeholder	Motivation	Benefits	Impediments	Incentives
State authorities 	Legal obligation and reporting duties	<ul style="list-style-type: none"> Access to info on state and trends of biodiversity otherwise not available 	<ul style="list-style-type: none"> Understaffed limited communication concern losing sovereignty? 	<ul style="list-style-type: none"> Increased efficiency added value through buy-in by stakeholders Transparency
NGOs 	Member integration, influencing planning, intrinsic motivation	<ul style="list-style-type: none"> Access to reliable, quantitative information for highlighting threats 	<ul style="list-style-type: none"> Perceived loss of own visibility 	<ul style="list-style-type: none"> Increased evidence base for influencing policy and legislation Self-efficacy
Natural history societies 	Intrinsic motivation, Enthusiasm for biodiversity	<ul style="list-style-type: none"> Exchange with like-minded people Interoperability with environmental data 	<ul style="list-style-type: none"> Funding/ capacities 	<ul style="list-style-type: none"> Access to analytical and statistical expertise Increased recognition of work

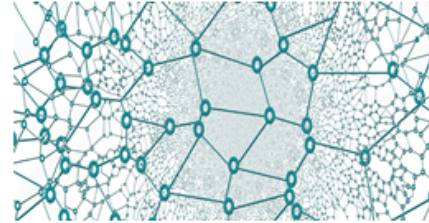
Achieving Integration

Identifying stakeholders



Welcoming and embracing diversity

Turning stakeholders into network nodes



Identifying stakeholders roles, motivation, benefits and strengths

Linking the nodes (stakeholders)



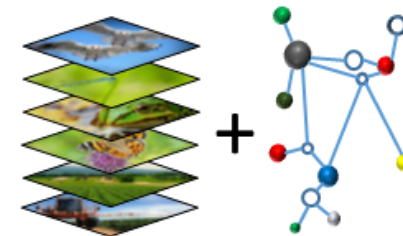
Enabling participation, identify impediments, designing incentives

Unifying stakeholders around core standardised monitoring programme



Developing biodiversity monitoring program, increase relevance, political and emotional, and joint ownership

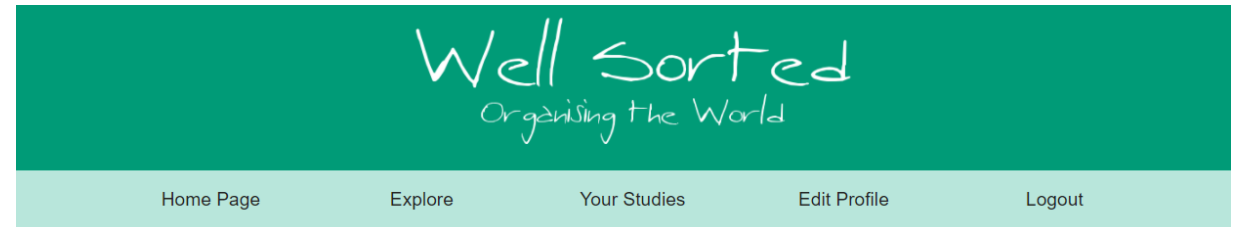
Aligning the social network and technical design



Creating a network design, data standards and sharing policy agreement, infrastructure

(Kühl, Bowler, et al 2020 One Earth)

User & Policy Needs survey



EuropaBON Stakeholder Meeting

26-28 May 2021

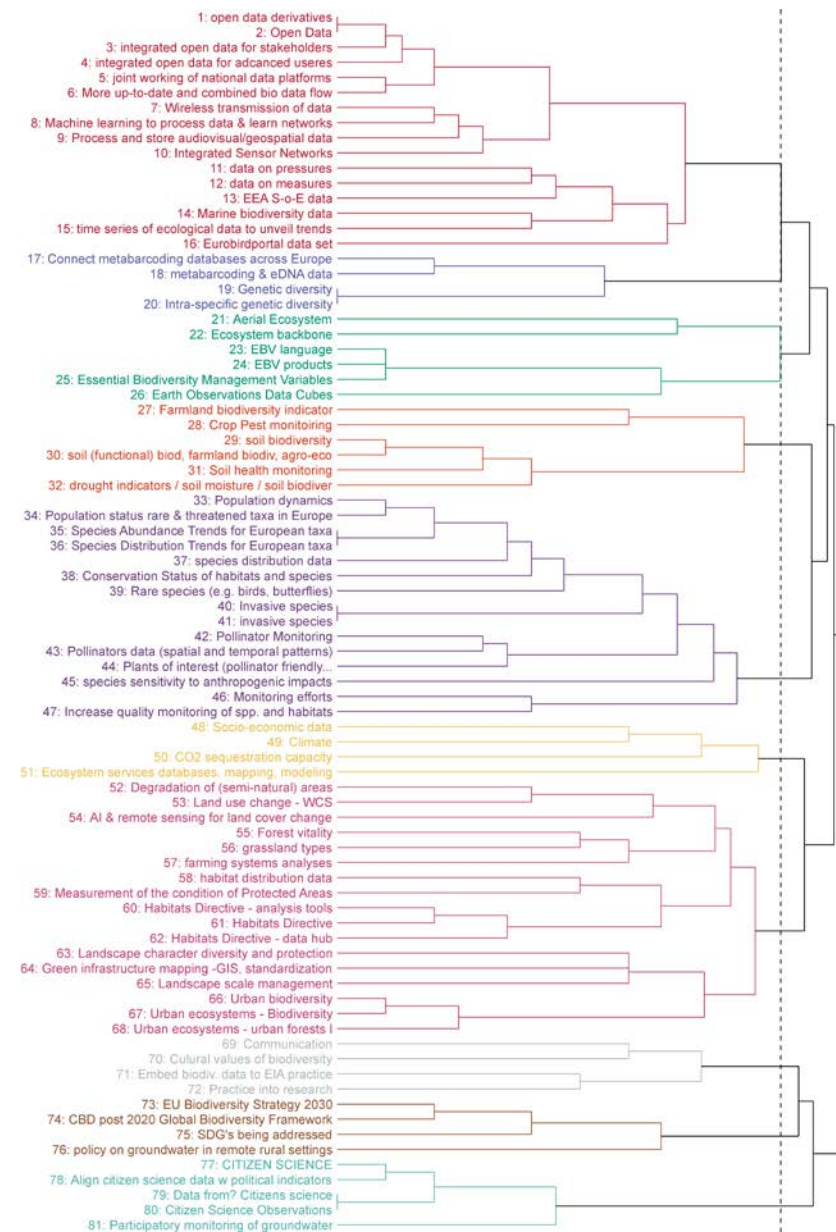
What existing and novel biodiversity data flows are needed now and over the next 5-10 years?

If possible, can you also specify which policy goals they are connected to?

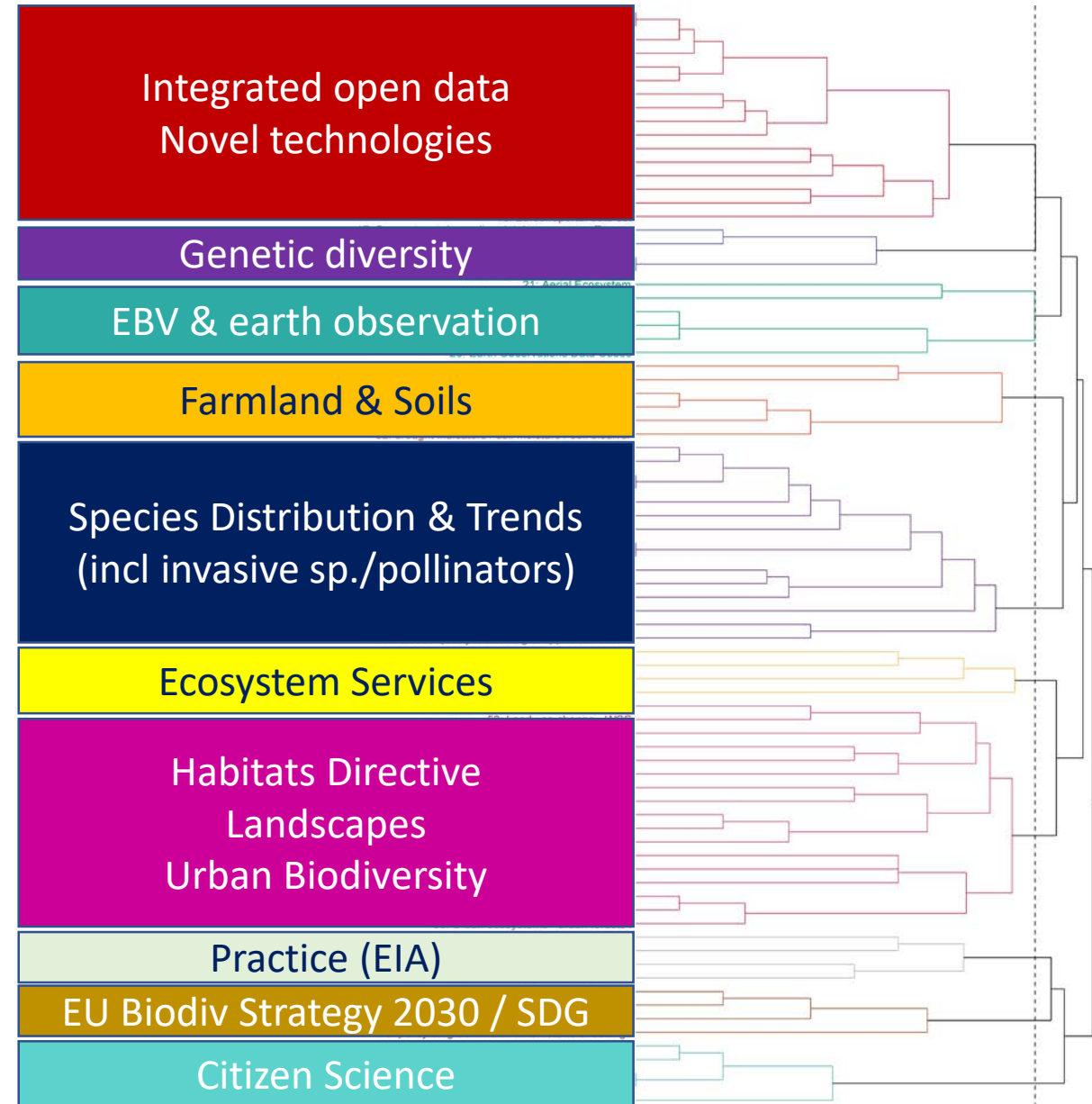
17-21 May rapid survey: 81 entries

<https://www.well-sorted.org/output/EuropaBONUserandPolicyNeeds/#Documents>

User & Policy Needs survey



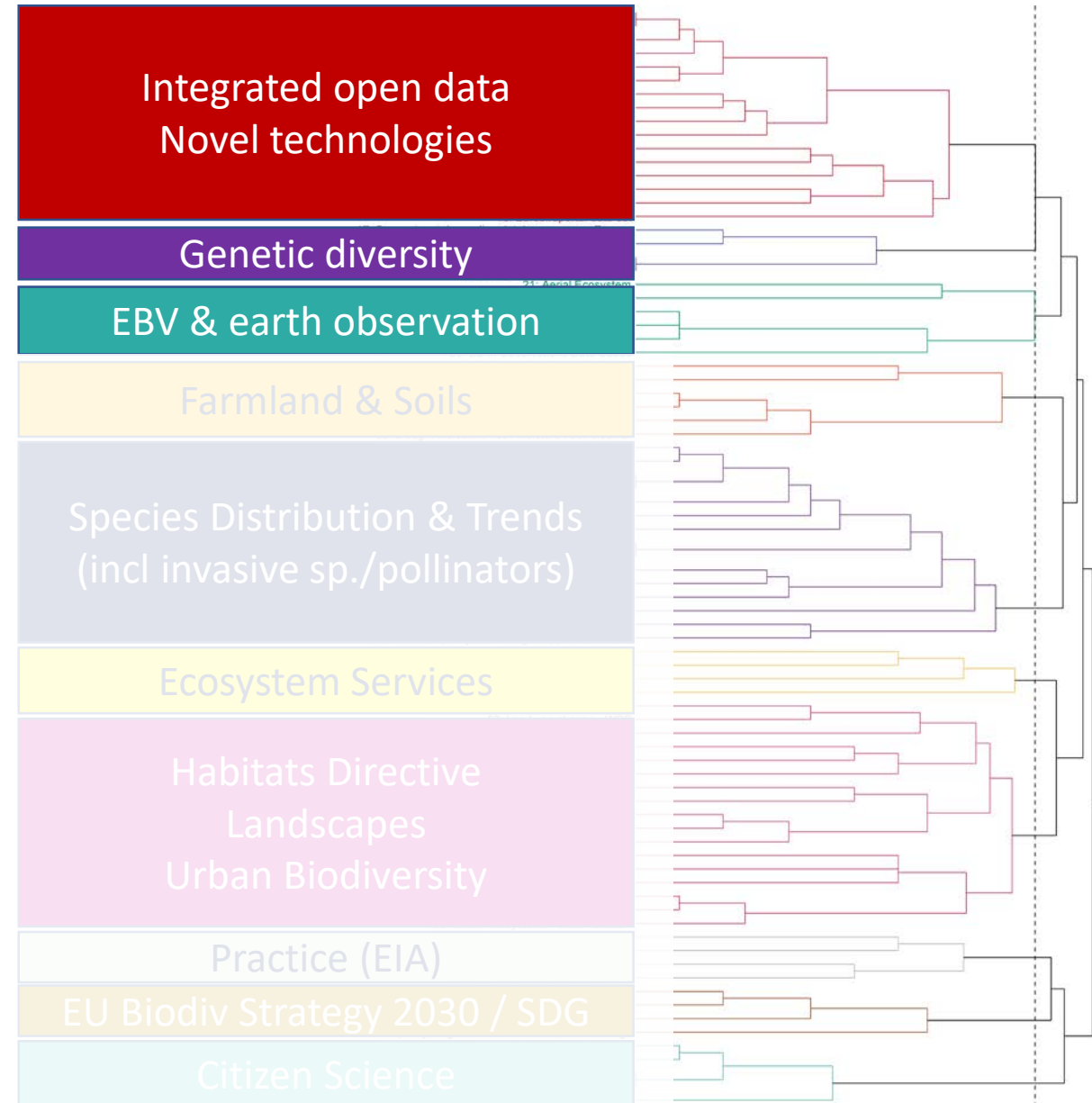
User & Policy Needs survey



User & Policy Needs survey

Open data derivatives

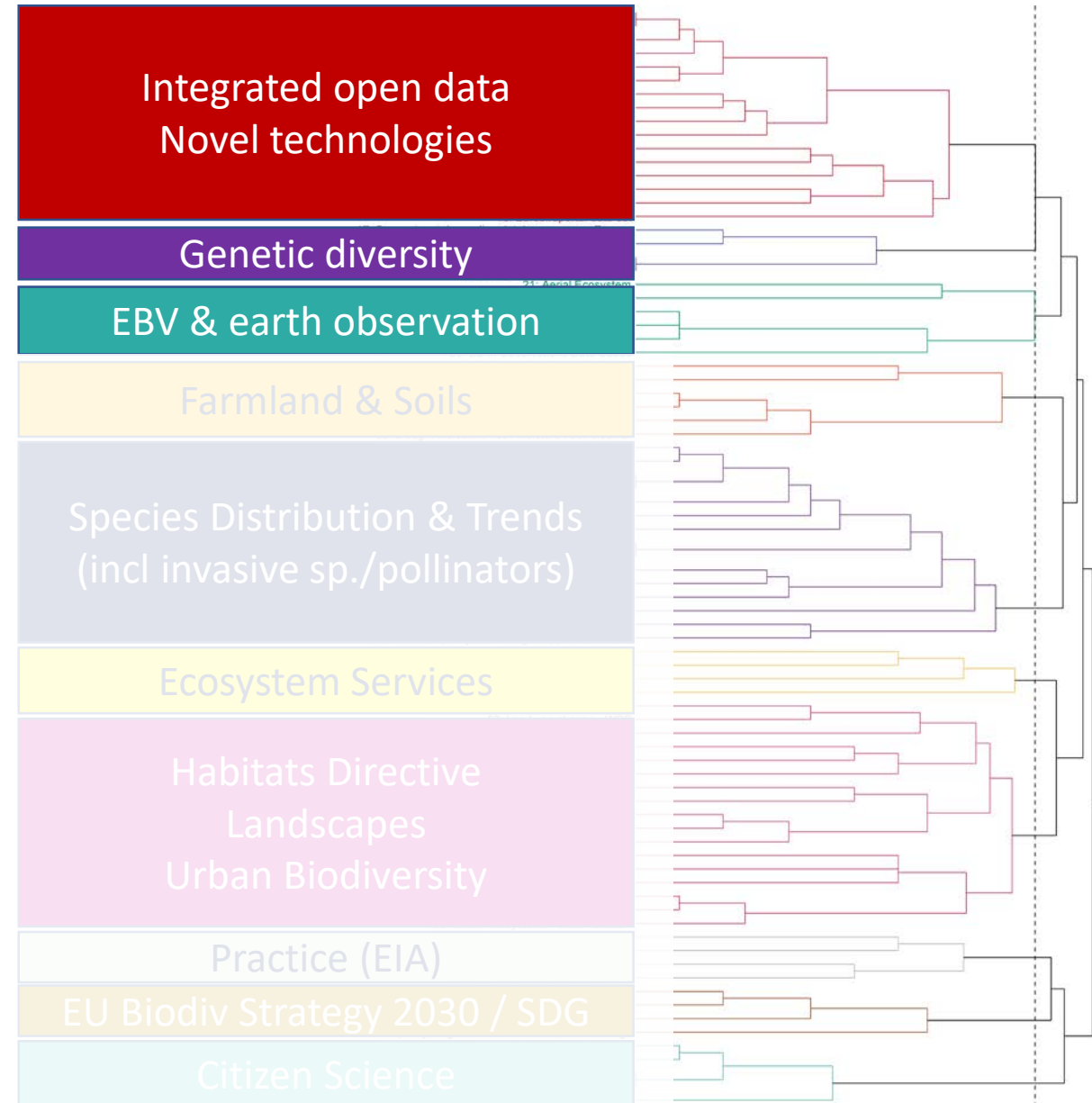
- **Standardized maps** for species ranges, species richness, functional properties of assemblages, phylogenetic info
- **Easy to browse** in the web and to **download** for further use.
- Stakeholders, **ranging from high-level governmental agencies to ground-work-doing nature conservationists**, need **simple access** to biodiversity access that is **integrated, cleaned, follows an accepted taxonomy**
- **joint interfaces & interoperability** between **national, regional and EU platforms**, implement **Open Science and FAIR data**



User & Policy Needs survey

Novel data types

- **Novel data types** such as (i) images (phenocams etc), (ii) citizen science based imagery, (iii) audiovisual content (audiologs, videos) and (iv) spatiotemporal data
- **Integrated sensor networks: automated biodiversity monitoring stations, metabarcoding, machine learning approaches**
- **Multi-scale Earth Observations** data from (satellites to drones)
- **Time series of biological data**
- **Genetic diversity**
- *Also: Marine data & data on pressures*



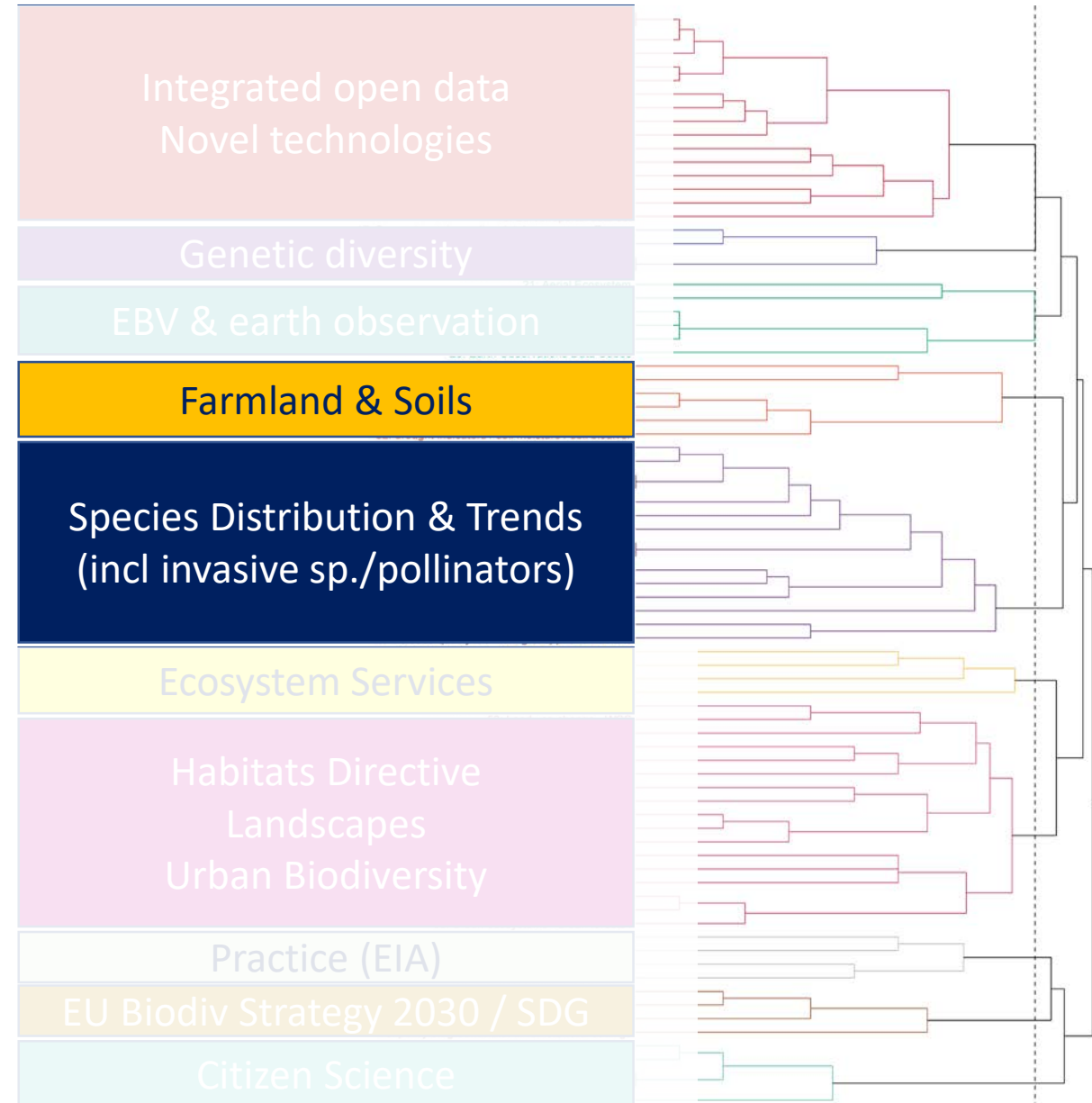
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Farmland & Soils

- A pan-European indicator of the biodiversity **value of farmland**- Crucial for **CAP evaluation**
- Soil biodiversity
Soil policy; Climate policy; Nature Directives

Species Trends

- Cross-sectional monitoring methodology at European level to robustly assess the **population status of rare and threatened taxa** in terrestrial, aquatic or marine environments.
Habitats and Birds Directive, WFD
- EU wide invasive and alien species monitoring
- **Pollinator monitoring**- Farm2Fork, Biodiversity Strategy, Habitats Directive



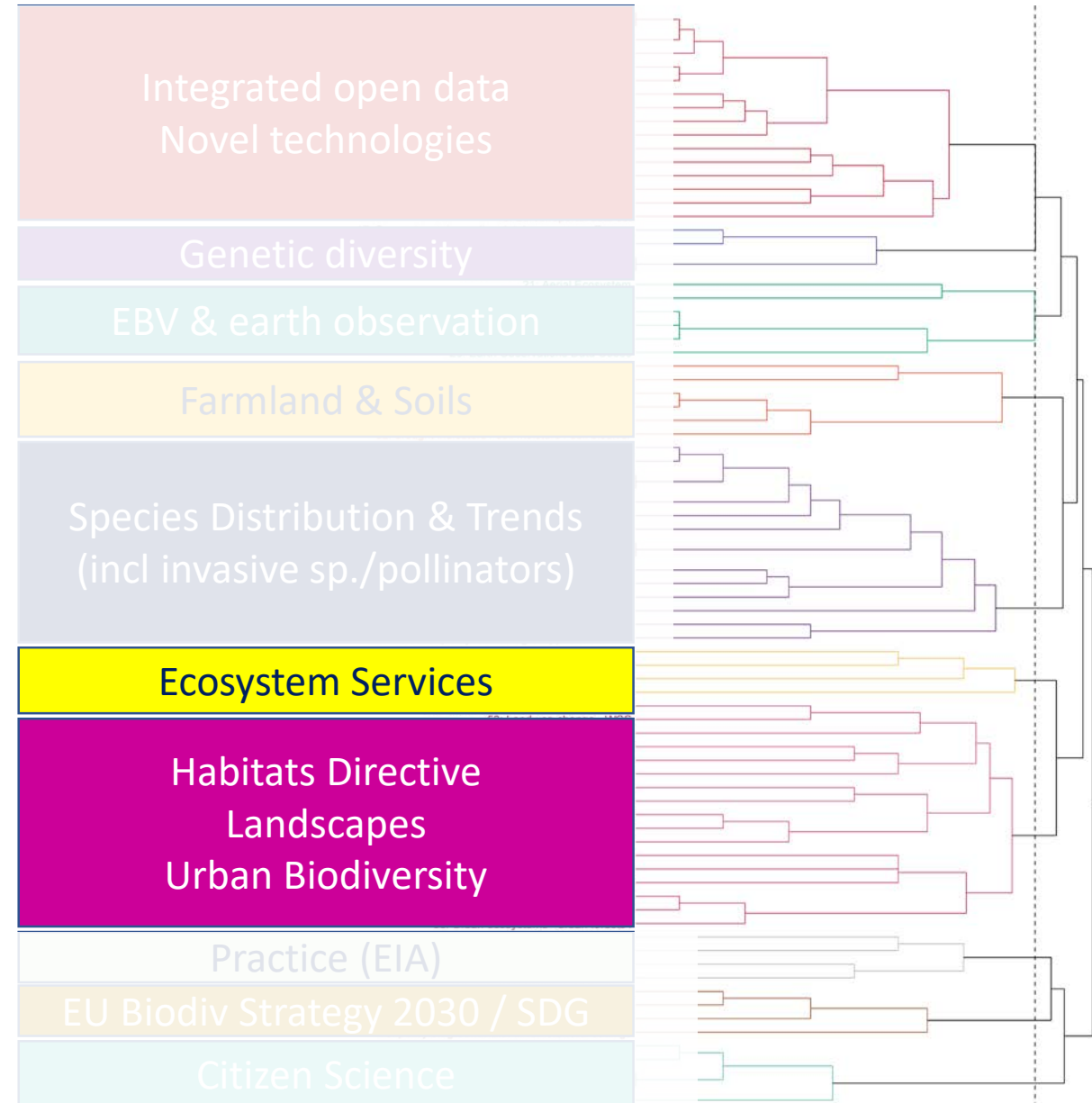
User & Policy Needs survey

Ecosystem Services

- **CO₂ sequestration capacity**- mitigation and adaptation potential of vegetation types
- Socio-economic data
What does biodiversity mean for job availability? For **human health**? For tourism?

Landscapes and Habitats

- near real time monitoring for **land use and land cover change** to inform a range of policies (Biodiv., Agriculture, Climate, Water, Health)
- Centrally **organised analysis pipeline** to analyse data collected for the **Habitats Directive**.
- Landscape character -**European Landscape Convention**
- **Green infrastructure** mapping
- **Urban Biodiversity**



User & Policy Needs survey

Practice / Communication

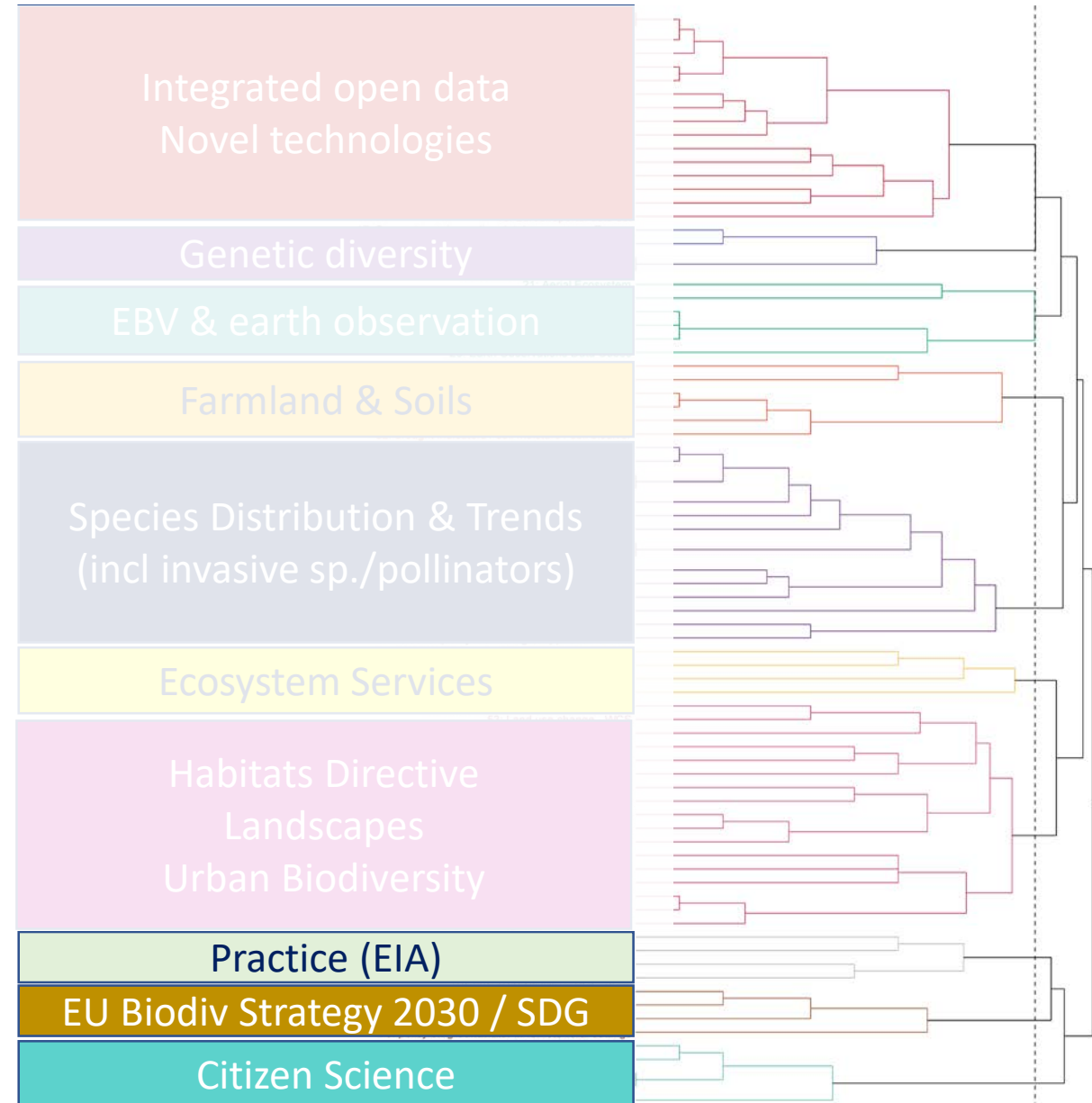
- Embed biodiversity data to **EIA practice**
- **Capturing what is going on 'in the field'** and inform science about the **practical approaches**, including **open question for science**

EU Biodiversity Strategy / SDGs

- **Serve policy goals**

Citizen Science

- establish **workflows** for citizen science data to **inform political indicators**
- role needs to be strengthened, amplified and quality assessments performed



User & Policy Needs - this morning



Interactive Workshops

- Identify relevant policy questions in 5-10 years
- Co-Design desirable future & EuropaBON services to policy and other users
- Identify roadblocks
- Develop solutions to adress challenges
- Suggest own contriutions to EuropaBON Network



THANK YOU!



europabon.org

