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Strengthening Pollinator Recovery through INdicators and monitoring



David Roy (UKCEH) & Josef Settele (UFZ)
on behalf of the SPRING team



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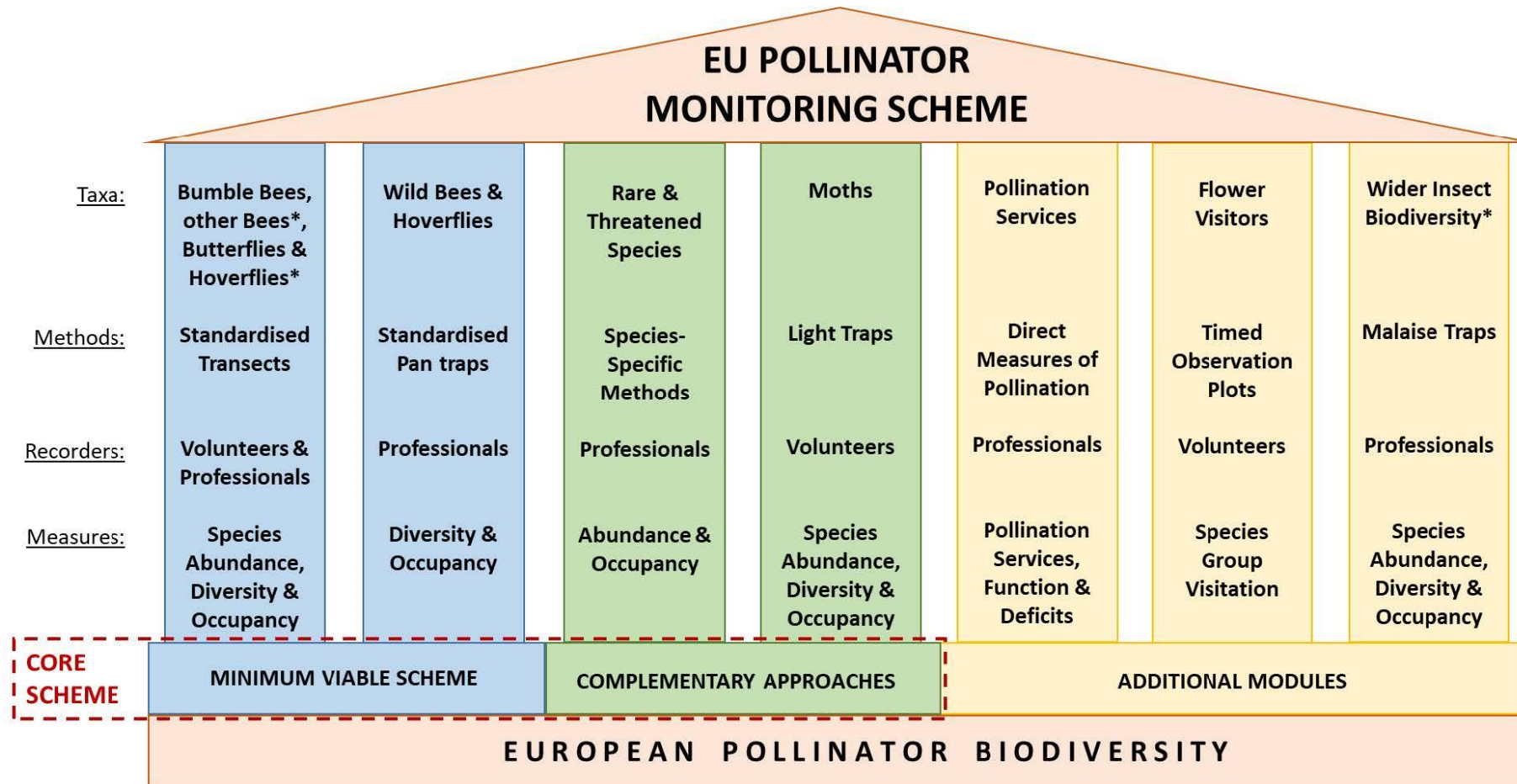
Strengthening Pollinator Recovery through INDicators and monitoring



General objective: strengthen taxonomic capacity in EU Member States with regard to pollinating insects, and support preparation for the implementation of the **EU Pollinator Monitoring Scheme “EU-PoMS”**



EU-PoMS *(Potts et al. 2020)*

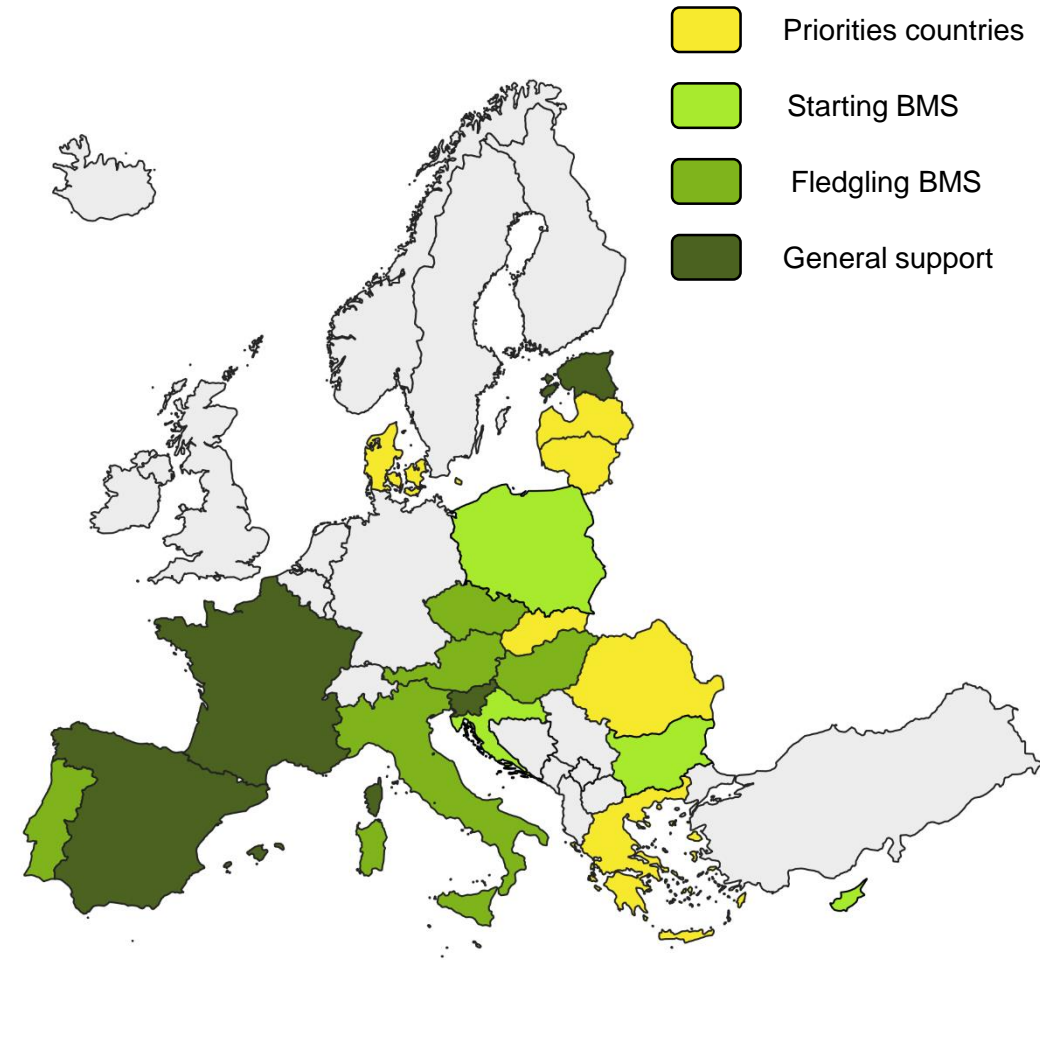


Task 1.1 – Expanding eBMS



Aim: Complete coverage of European Butterfly Monitoring Schemes as an **eBMS partnership in all EU member states**

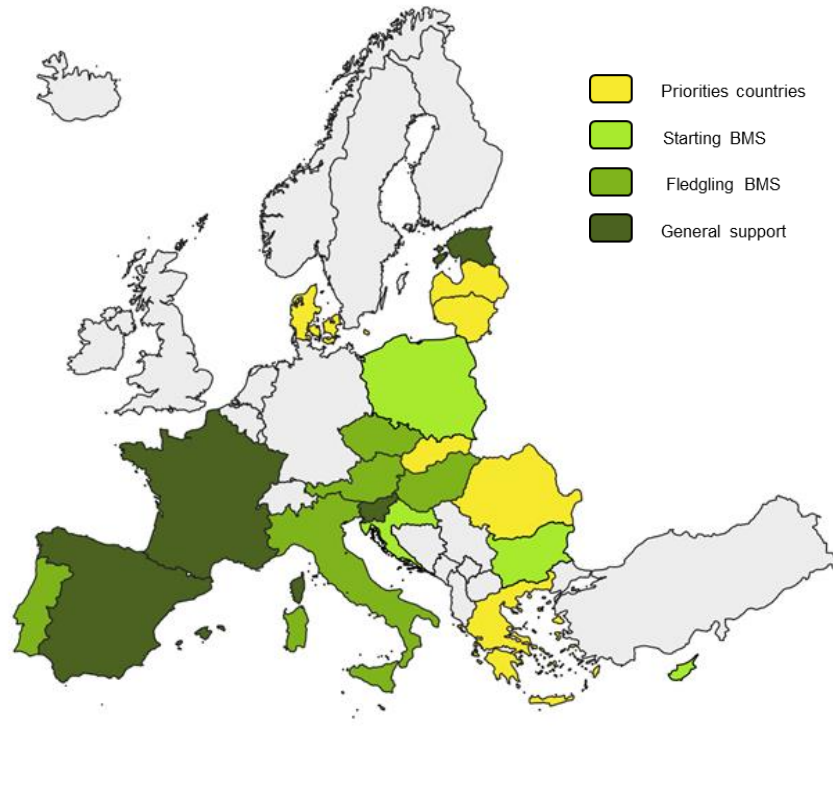
- ▶ Establish a BMS in EU countries where it is not yet established
 - **Priority support 6 countries:** Denmark, Greece, Latvia, Lithuania, Romania and Slovakia
- ▶ Support and develop a unified, sustainable and cost-effective European butterfly monitoring network
 - 10 ABLE countries: **Starting BMS & Fledgling BMS**
 - **General support**



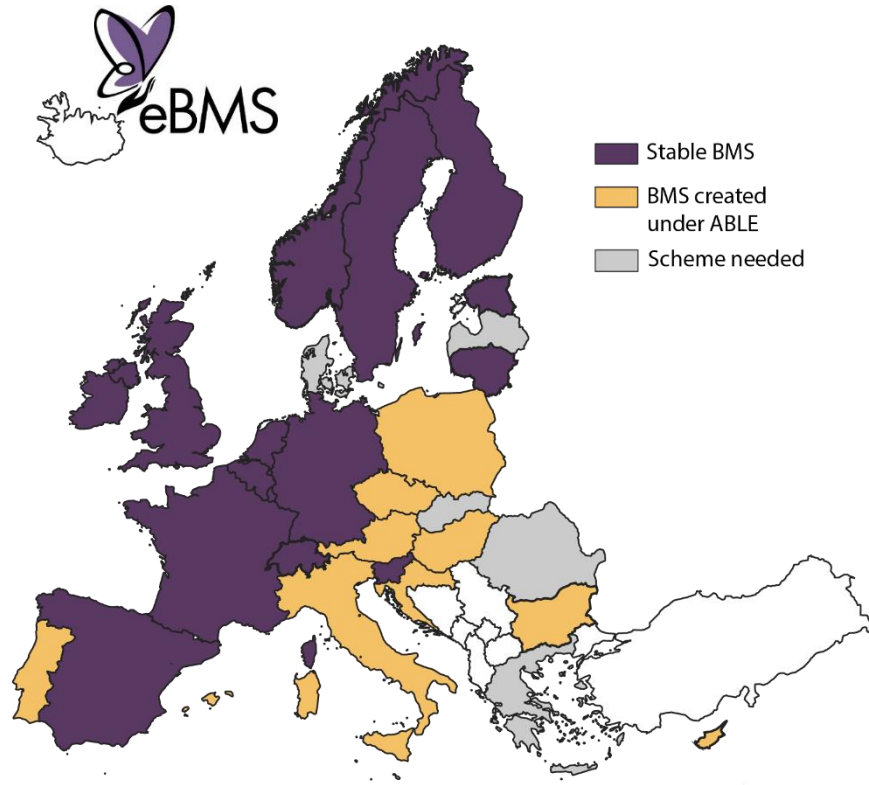
- Priorities countries
- Starting BMS
- Fledgling BMS
- General support

Butterfly Monitoring in Europe

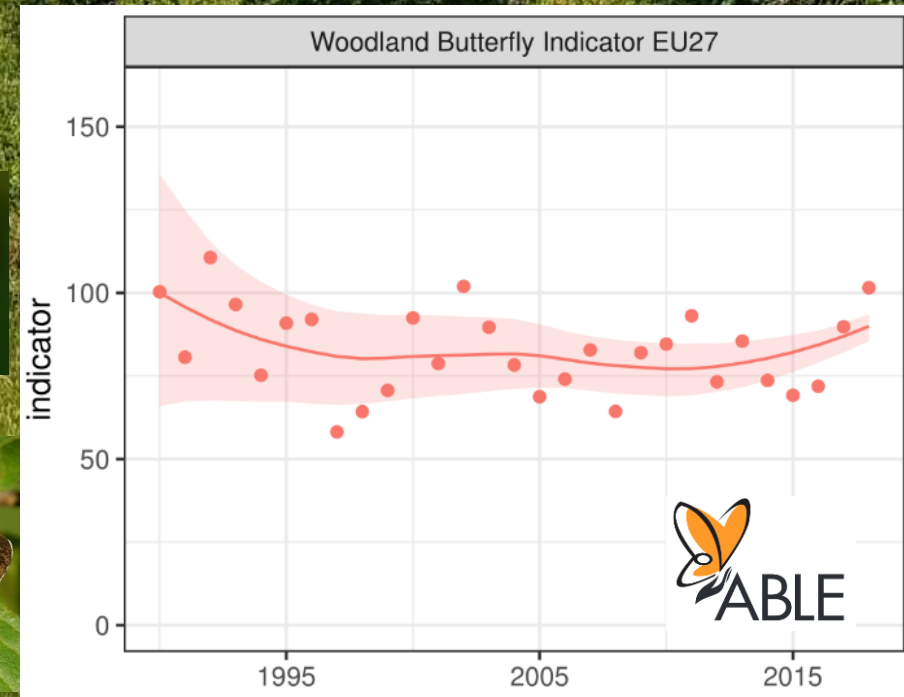
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ABLE



- Woodland indicator - 67 species
- Decline in 1990s, some recovery since



Task 1.2 – Build CS networks



The prioritization of EU countries for strengthening citizen science networks on pollinators, avenues to engage relevant actors, especially in countries with low or non citizen science capacity.



UK CEH

Expected results

- ▶ **Work with key NGOs, citizen science organizations and partnerships** with a European (e.g. the European Citizen Science Association) or global (e.g. the Citizen Science Association) focus.
- ▶ Draw upon our **collective experience of citizen science approaches**, with particular focus on projects assessing pollinating insects and pollination
- ▶ Provide an assessment of the capacity of citizen science networks in EU countries: particular attention current unevenness in citizen science and generally weaker current capacity in Eastern and Southern Europe.
- ▶ Prepare and execute **plan of capacity-building activities**, target 15 countries

D1.2.2 Assess the capacity of citizen science networks in EU countries



The survey was completed by 304 participants from across Europe, representing 37 different countries and all SPRING regions. Analysis of the results is currently underway.

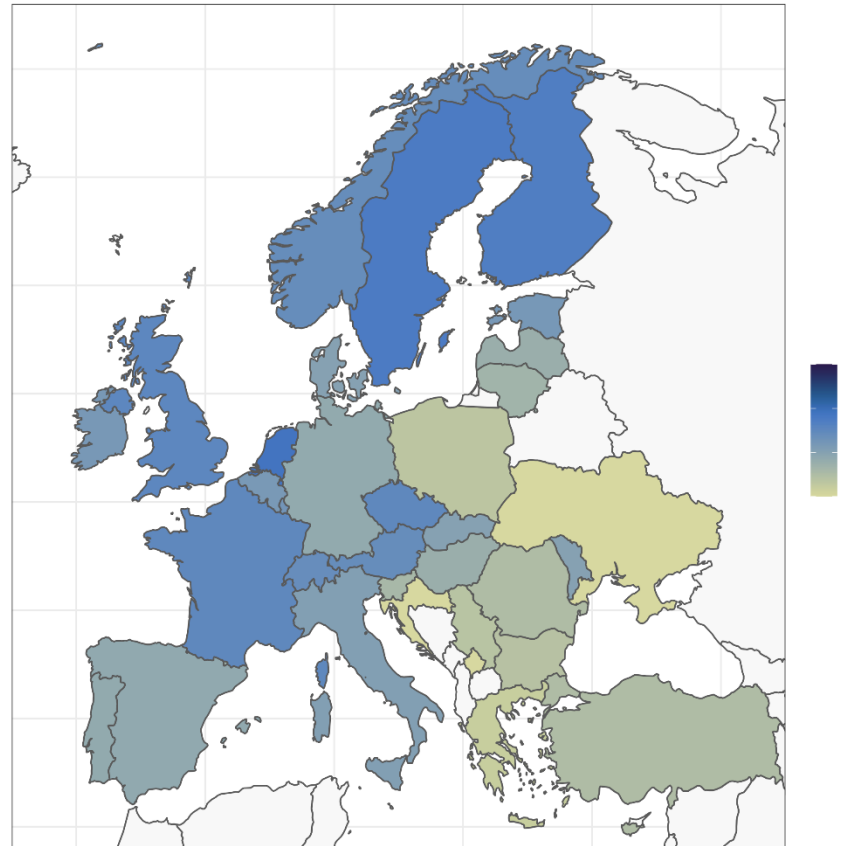


Figure: Initial findings (subject to change through cleaning and analysis). The overall state of pollinator citizen science across Europe. 0 = Embryonic, 1 = Developing, 2 = Establishing, 3 = Embedded.

Task 2 – Taxonomic Capacity Building



Sufficient level of taxonomic knowledge with citizen scientists involved in the MVS activities of EU-PoMS for wild bees and hoverflies, plus butterflies [and moths] in all EU countries.

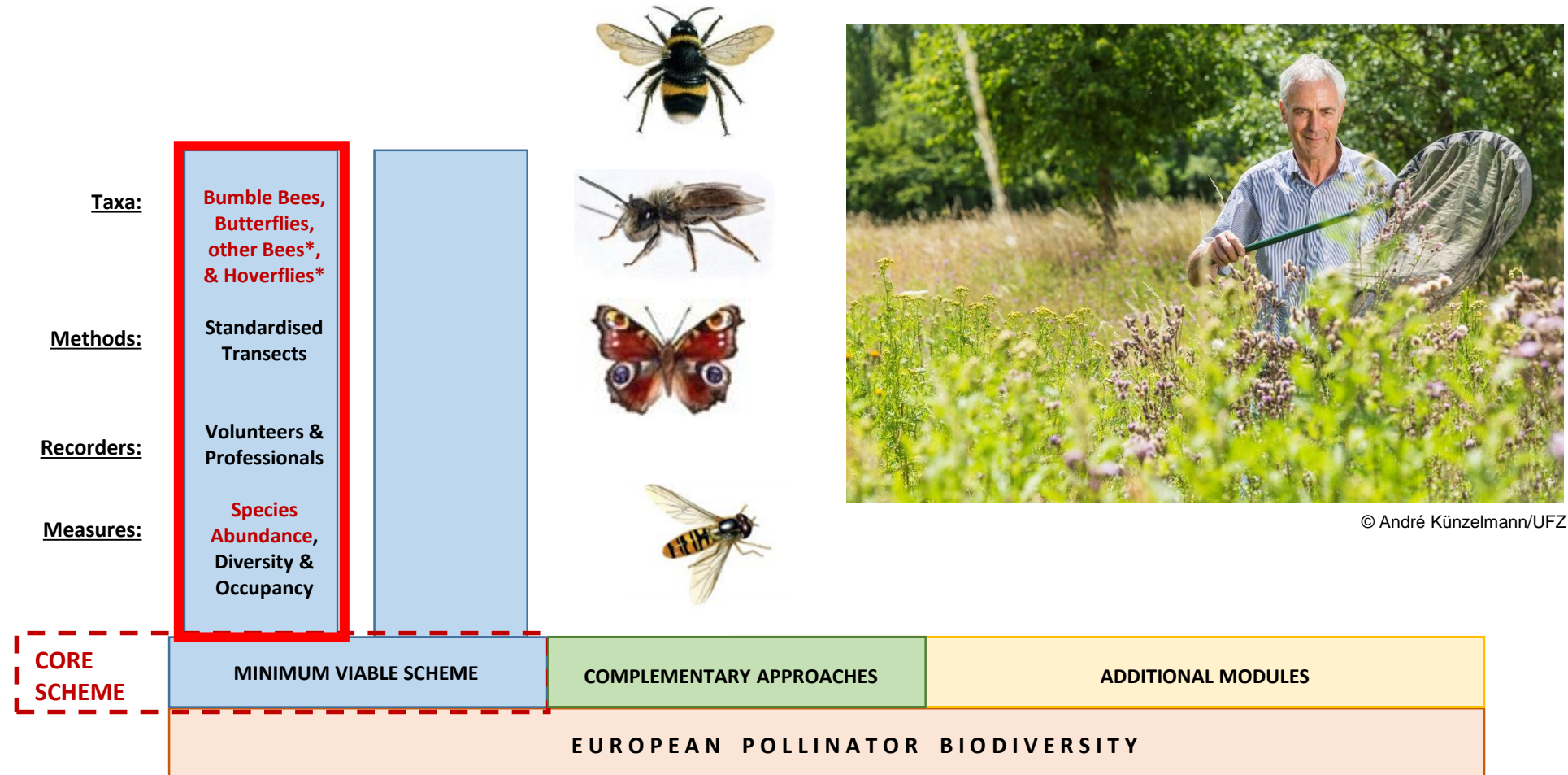


Expected results

- ▶ Produce **online materials for basic taxonomic training** for wild bees and hoverflies, and if needed for butterflies and day-flying moths that can be adapted and translated by regional/national coordinators into local instruction materials.
- ▶ Produce **online materials for basic field recognition training** of wild bee and hoverfly taxa (groups, some genera and distinctive species)
- ▶ Technically prepare the **image recognition app** ObsIdentify for European pollinators (butterflies, moths, wild bees and hoverflies)
- ▶ Develop the set-up of a **basic taxonomy course**, including materials needed and instructions for trainers
- ▶ Conduct **train-the-trainer courses** for national coordinators and experts
- ▶ Conduct **basic taxonomy courses** for pollinator recorders in all EU countries

Task 3

Piloting Minimum Viable Scheme (MVS) in EU 27



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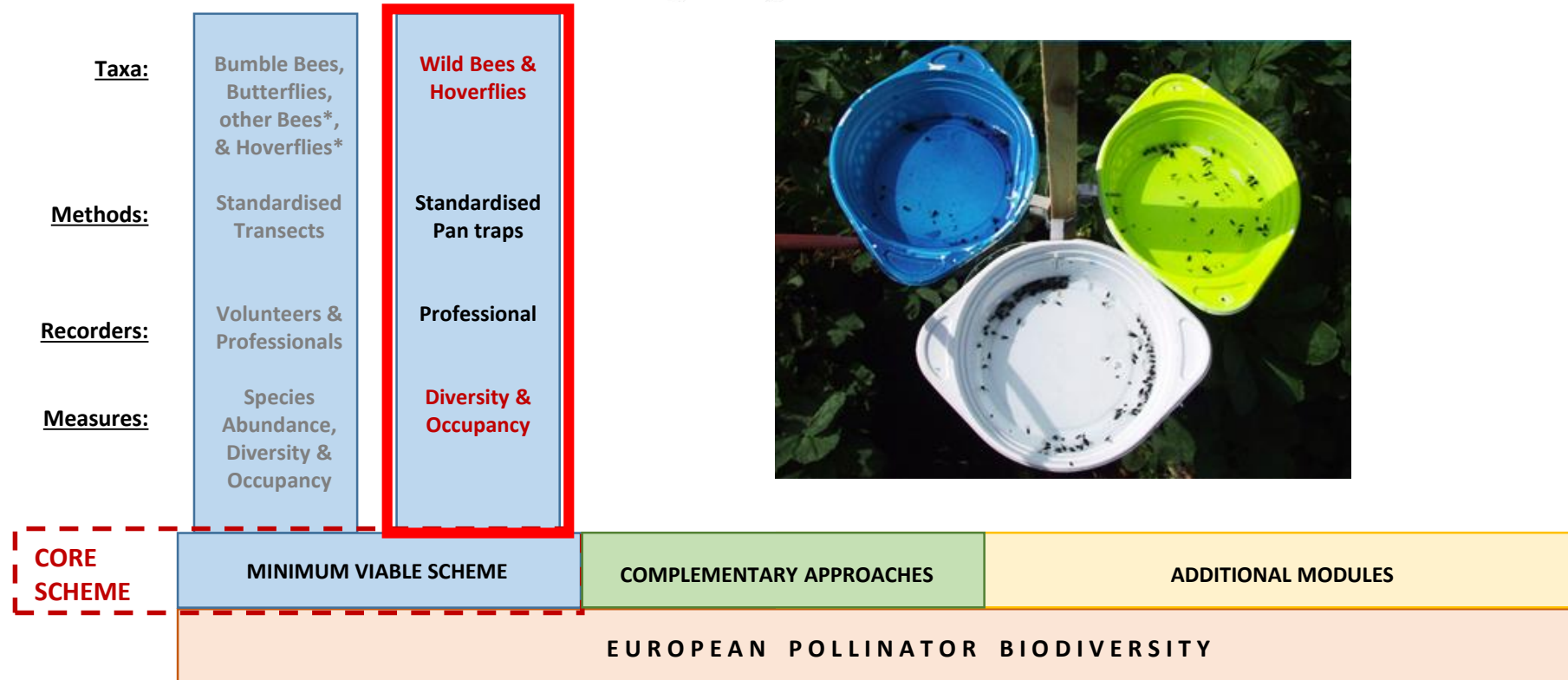
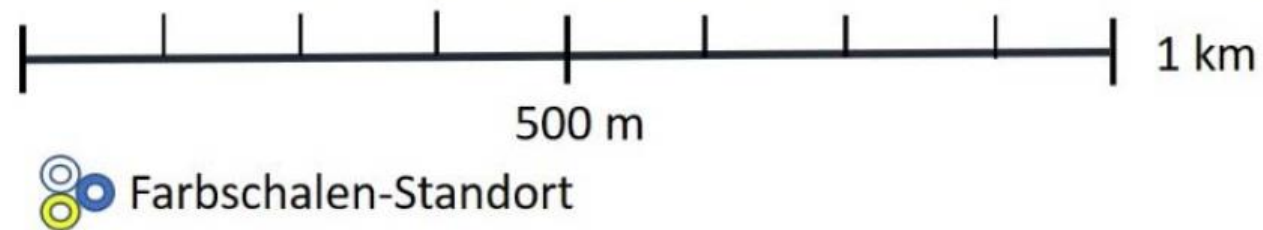
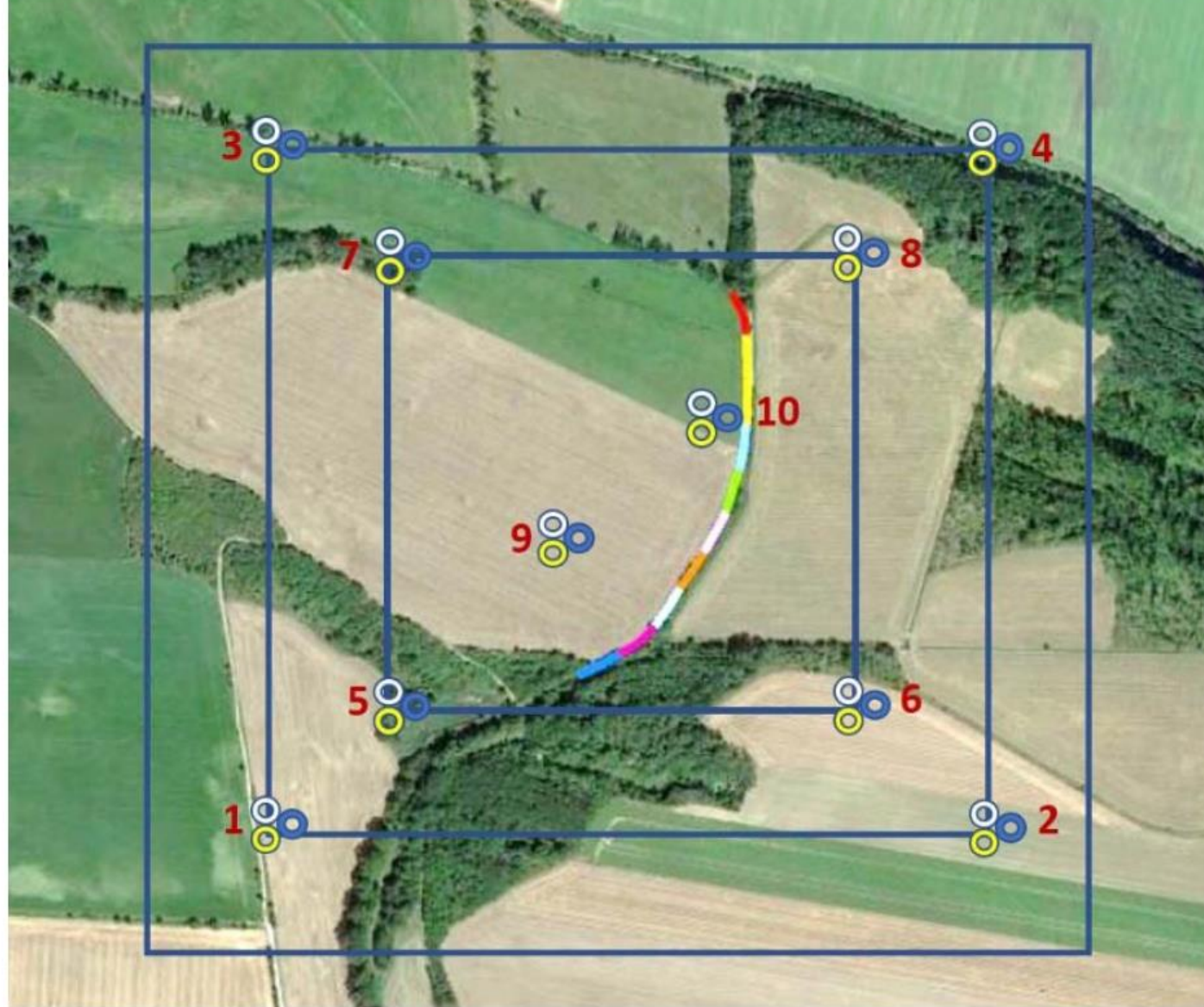


Abbildung 1: Positionen
Farbschalen auf
Untersuchungsfläche



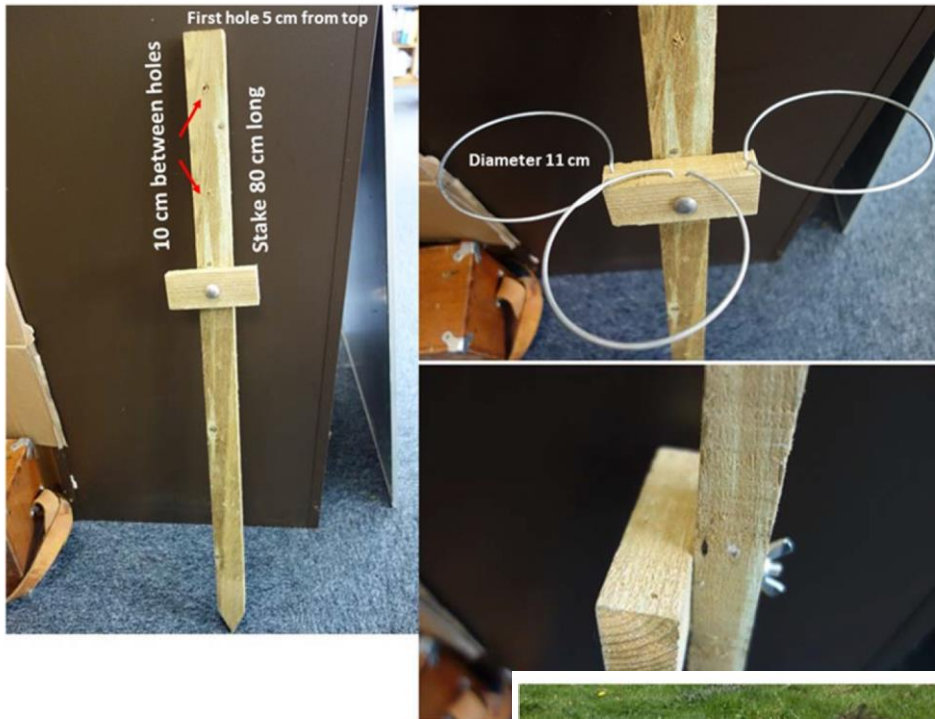


Abbildung 2: Holzpflock und Farbschalenhalter



Abbildung 3: Positionierung der Farbschalen



Abbildung 4: Farbschalen im Gelände

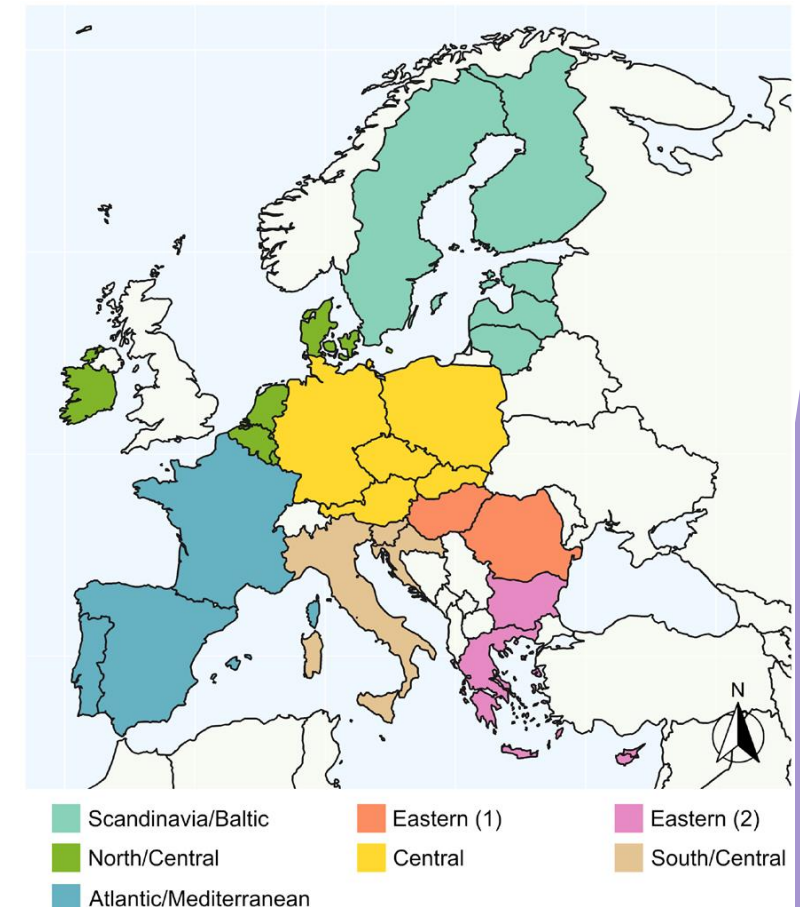
Support MVS pilots in EU Member States



The MVS methods will be piloted at 1-24 sites per country, according to the geographic area of each country. Those sites will include sites that are already part of other Schemes, e.g. within the eBMS partnership

7 regions of Europe for coordination of Task:

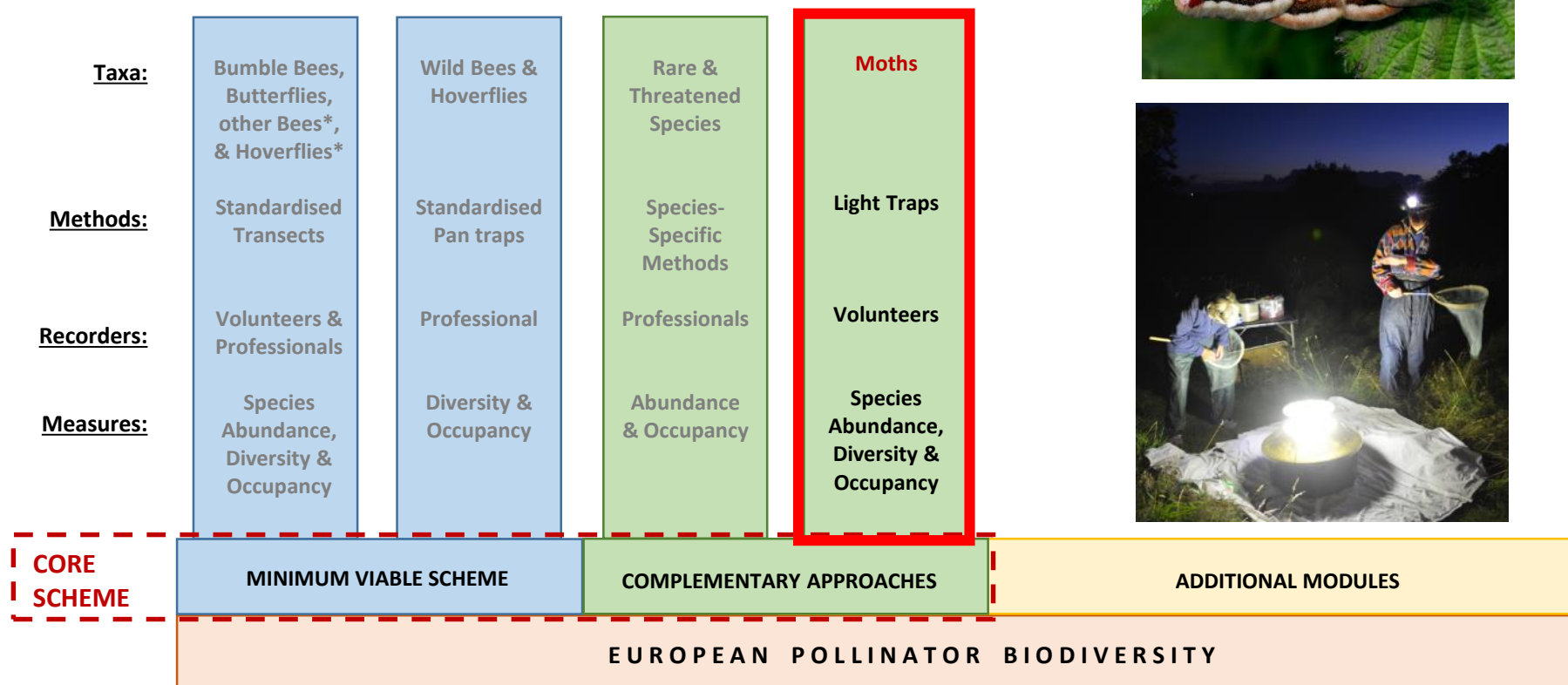
- ▶ Region 1. Scandinavia/Baltic: **Sweden**, Lithuania, Latvia, Finland, Estonia
- ▶ Region 2. Eastern 1. **Hungary**, Romania
- ▶ Region 3. Eastern 2. **Greece**, Bulgaria, Cyprus
- ▶ Region 4. Atlantic/Mediterranean. **Spain**, France, Portugal
- ▶ Region 5. North/Central. **Netherlands**, Belgium, Denmark, Ireland, Luxembourg.
- ▶ Region 6. Central. **Germany**, Czech Republic, Austria, Poland, Slovakia
- ▶ Region 7. South/Central. **Italy**, Croatia, Malta, Slovenia



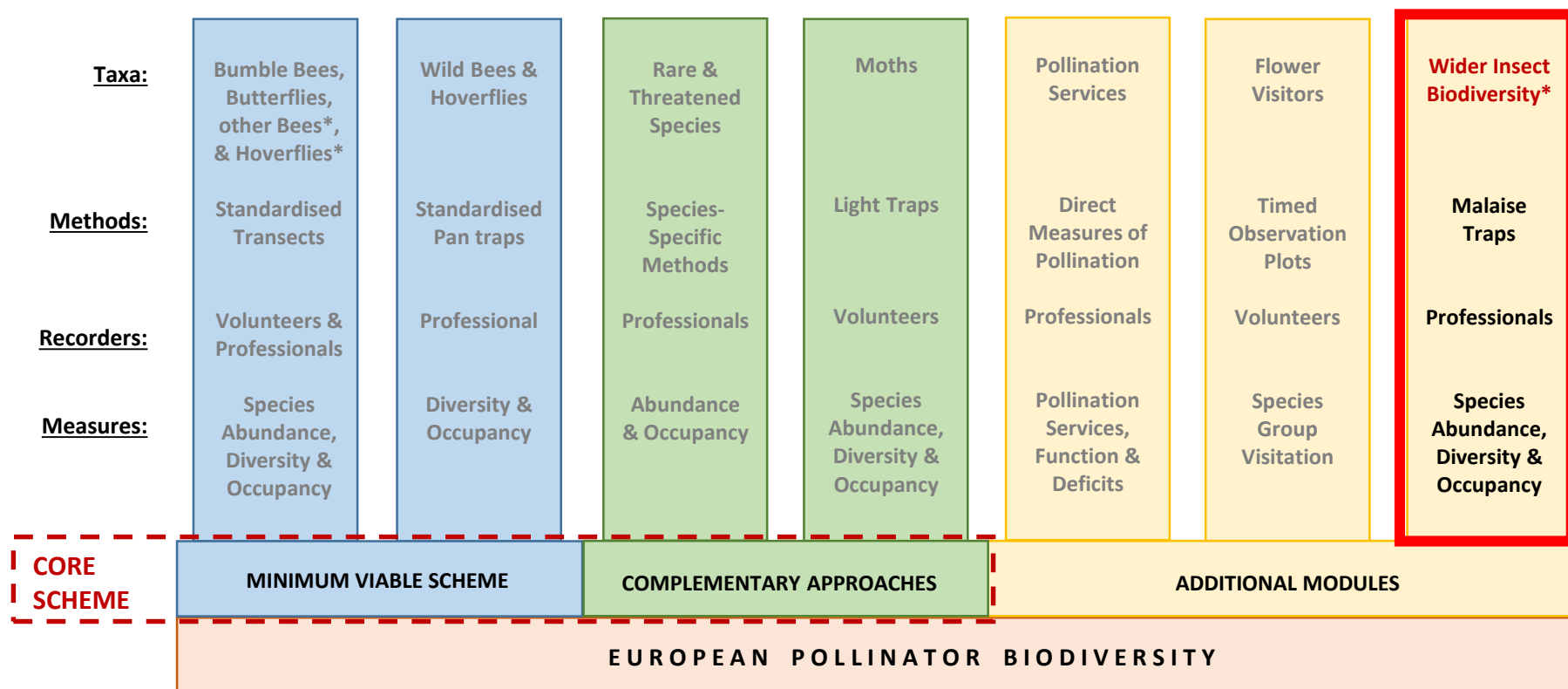
MVS Pilot sites (31. March 2022)



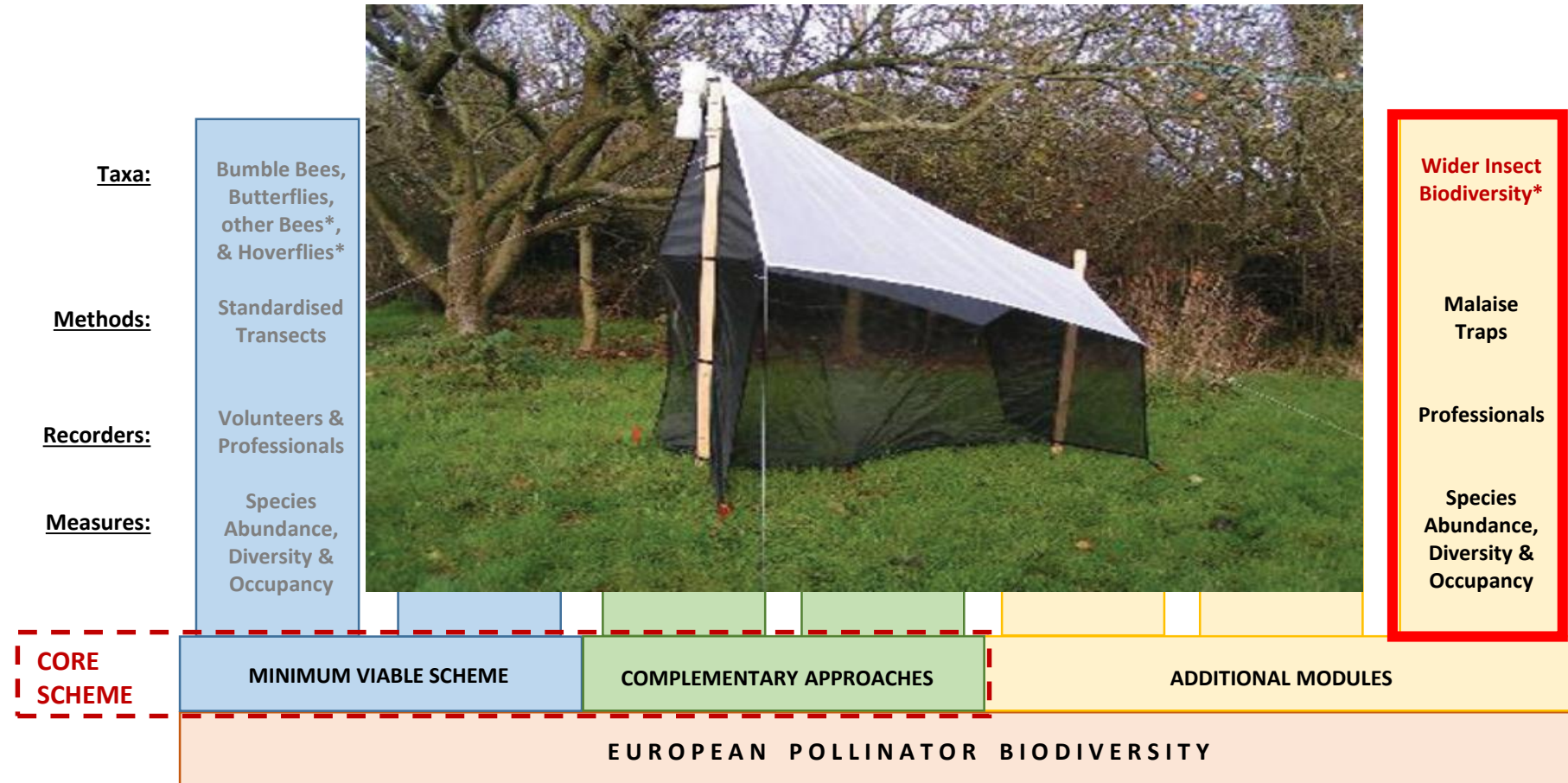
Task 4.1: Complementary Approaches – Moth Module



Task 4.2: Additional Modules - Wider insect biodiversity module



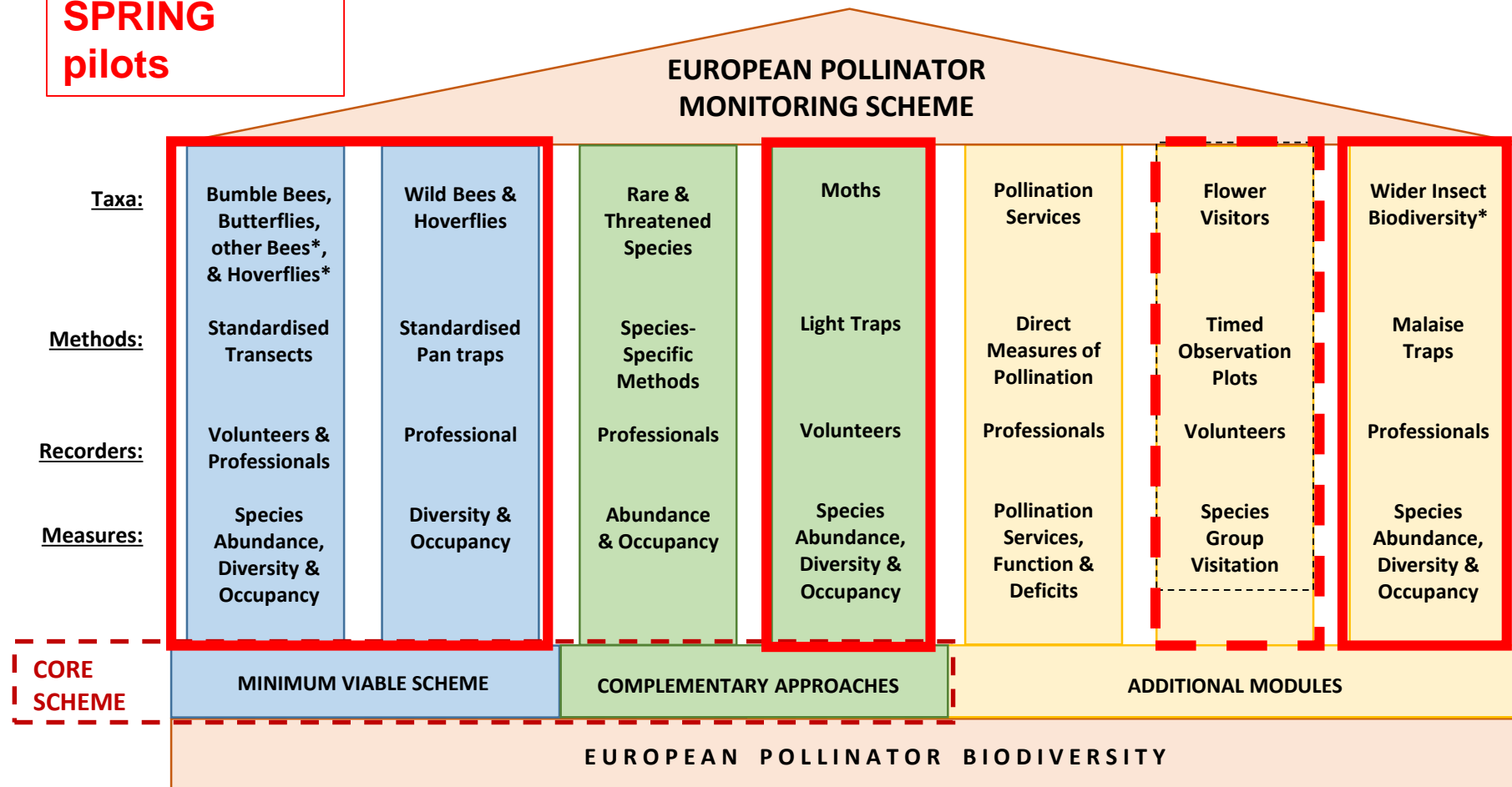
Task 4.2: Additional Modules - Wider insect biodiversity module



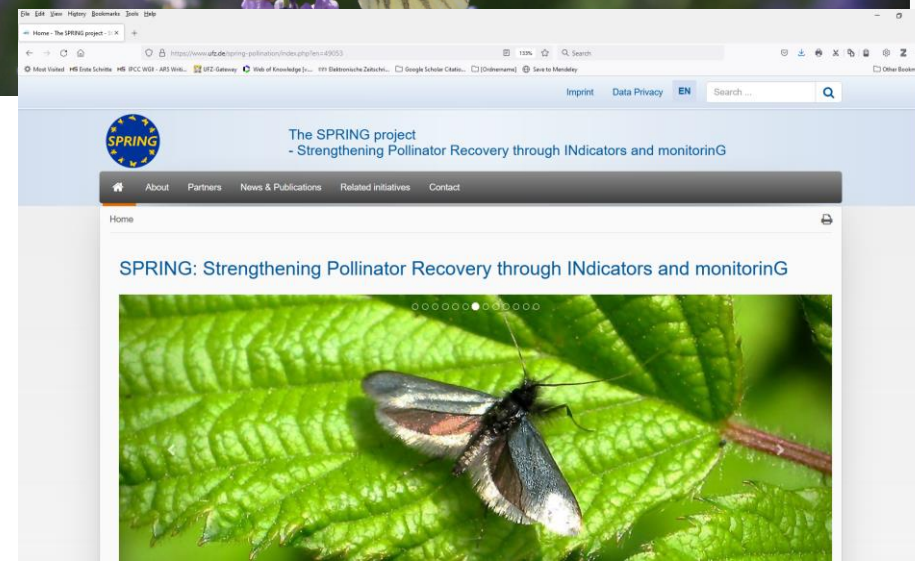
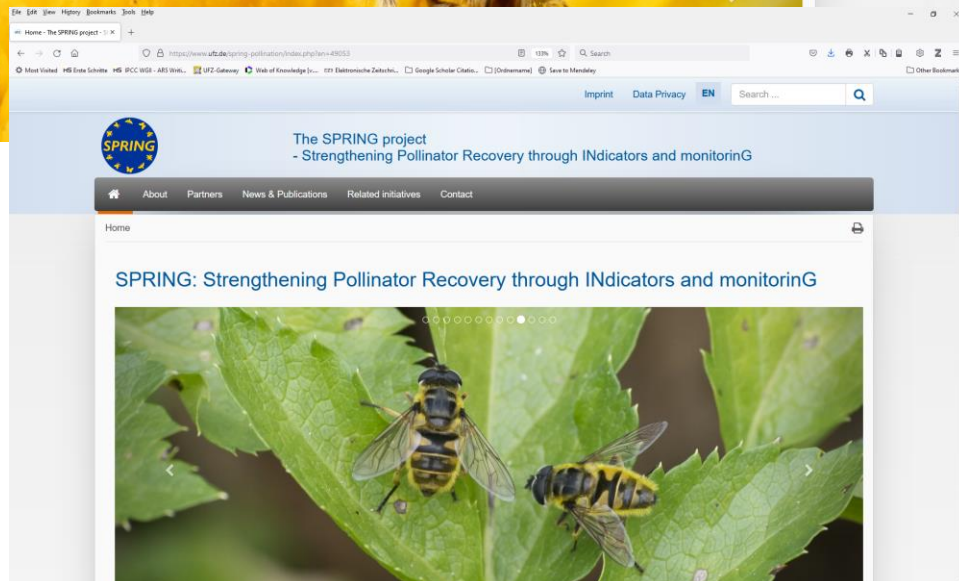
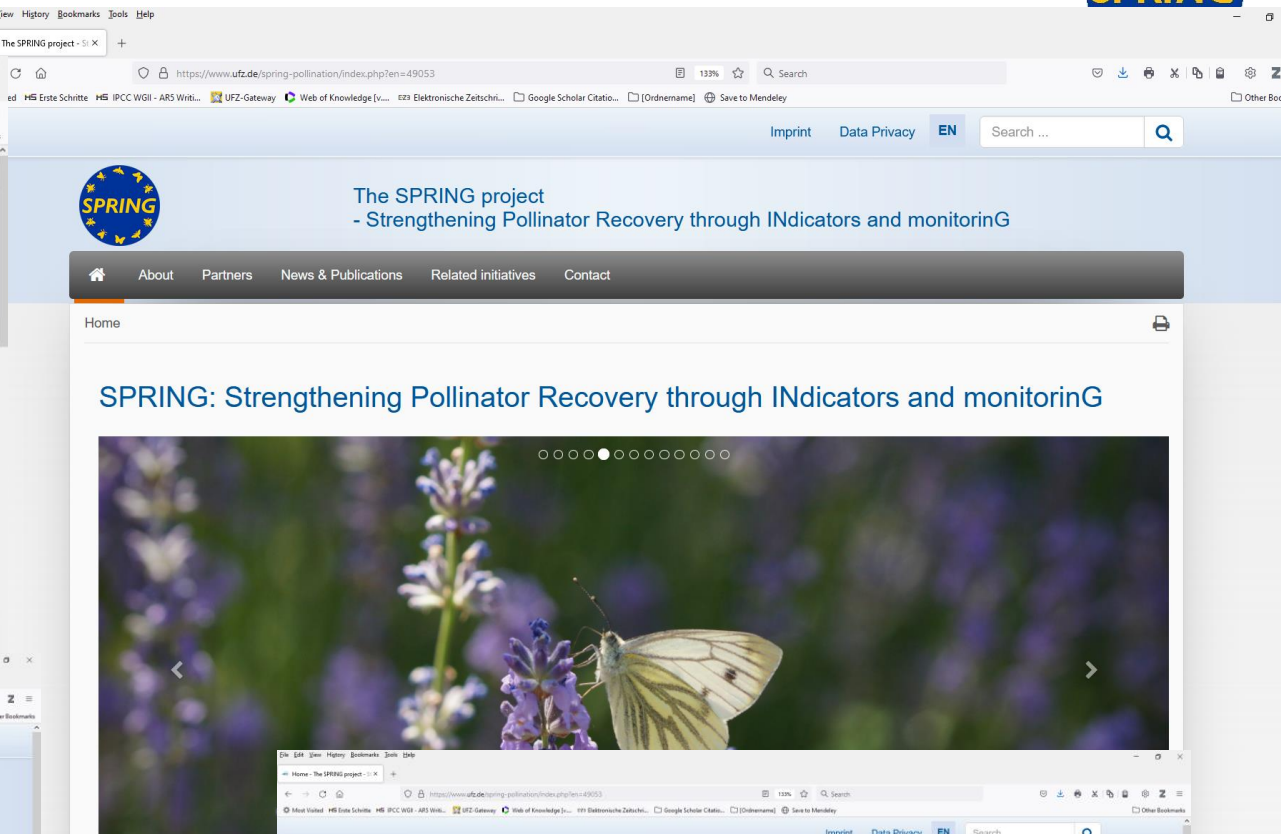
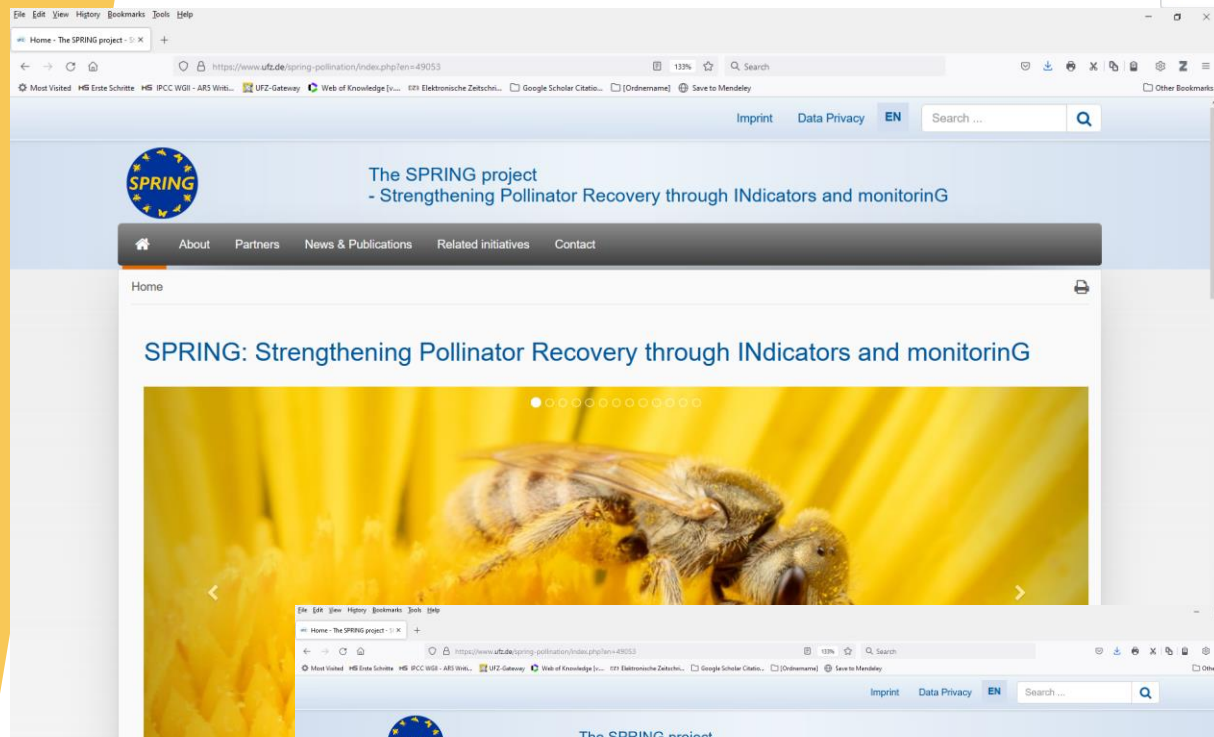
The Full EU-PoMS



**SPRING
pilots**



www.spring-pollination.eu



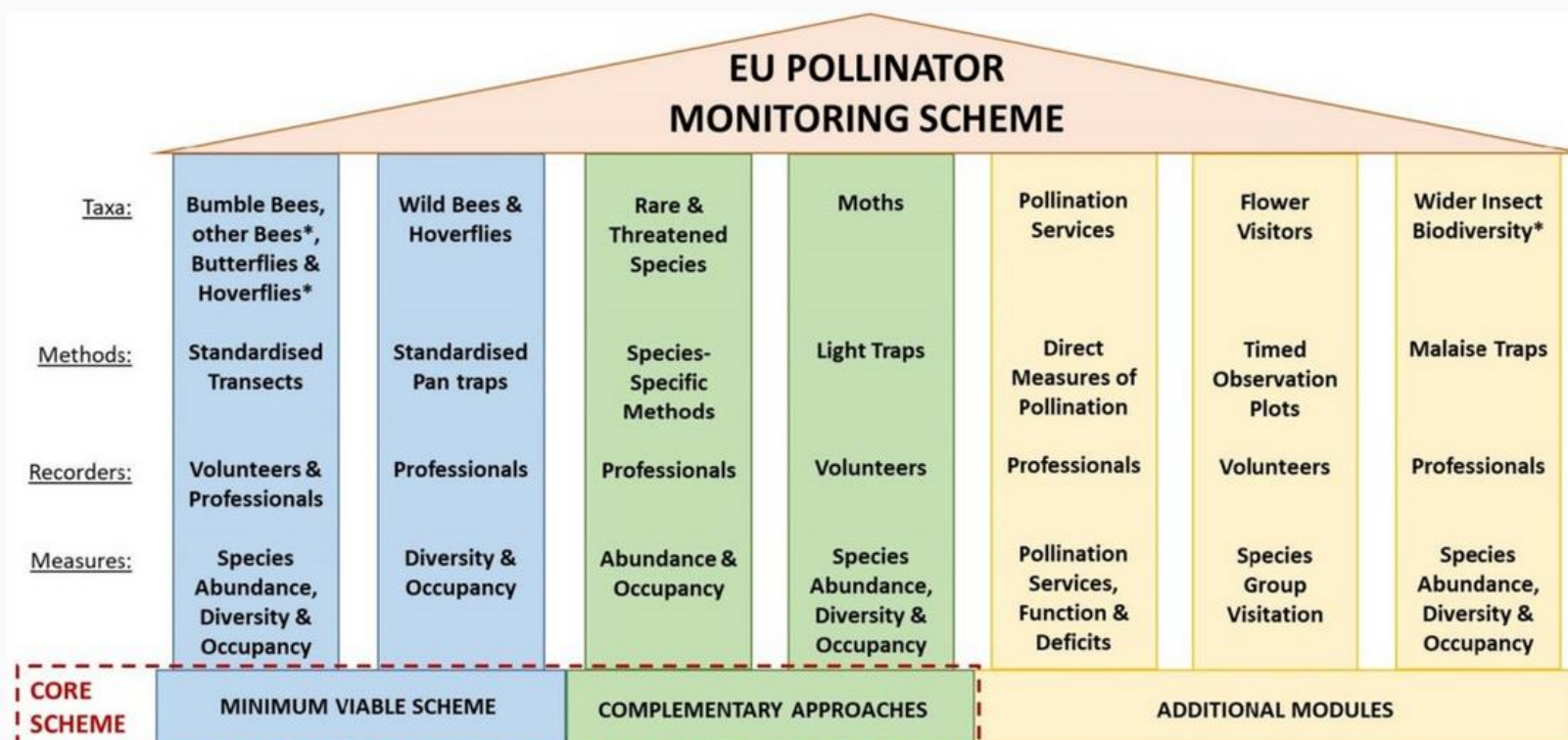


The SPRING project

- Strengthening Pollinator Recovery through INdicators and monitorinG


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General objective: strengthen taxonomic capacity in EU Member States with regard to pollinating insects, and support preparation for the implementation of the **EU Pollinator Monitoring Scheme “EU-PoMS”**



Publications



[Proposal for an EU pollinator monitoring scheme](#)



[Butterfly Indicators 1990-2018](#)

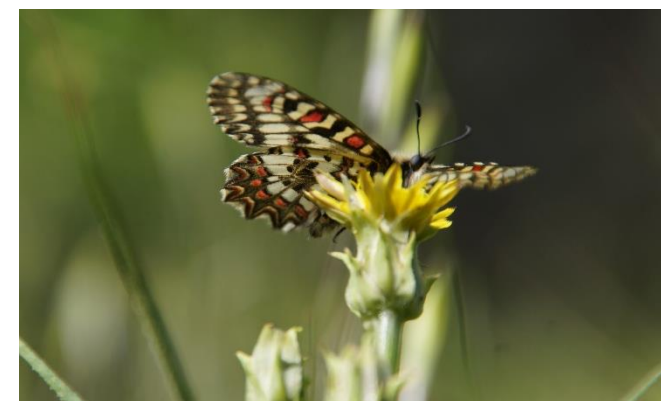


[European Butterfly Monitoring Scheme](#)

SPRING: Strengthening Pollinator Recovery through Indicators and monitorinG - Partnership



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3. De Vlinderstichting
4. UKCEH
5. Butterfly Conservation Europe
6. Butterfly Conservation - UK
7. Centre for Ecological Research
8. CREA AA
9. Creaf, UAB
10. EIS European Invertebrate Survey
11. University of Helsinki
12. Université Libre de Bruxelles
13. University of Alicante
14. University of Lund
15. University of Mons
16. University of Novi Sad
17. University of Reading
18. University of The Aegean
19. Senckenberg
20. Finnish Museum of Natural History
21. Entomologischer Verein Krefeld





TAXO-FLY





Thank you

