

Monitoring wild pollinators populations

David Roy (on behalf of the **SPRING** project)



UK Centre for
Ecology & Hydrology



eBMS improvements through the SPRING project

1. The need for an EU Pollinator Monitoring Scheme
2. Overview of the SPRING project
3. What it means for butterfly monitoring
4. Wider pollinator initiatives in the EU



EU Pollinator Monitoring Scheme (EU PoMS)

Design

Pilot, Refine & Build Capacity

Roll out



Action 1A of the EU Pollinators Initiative

"The Commission will devise and test an EU-wide pollinator monitoring scheme to ensure the provision of good quality data for assessing the status and trends of pollinator species in the EU and developing a pollinator indicator.

A technical expert group will be set up to support this work."

Defining the approach for an EU PMS

Science and Technology for pollinating insects (STING)



WS1: Sampling design
David Roy & Claire Carvell



WS2: Methods & recorders
Bas Oteman



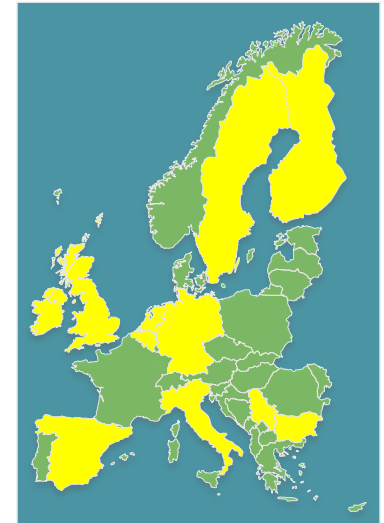
WS3: Taxonomic & data support
Axel Hochkirch



WS4: Indicators
Jens Dauber

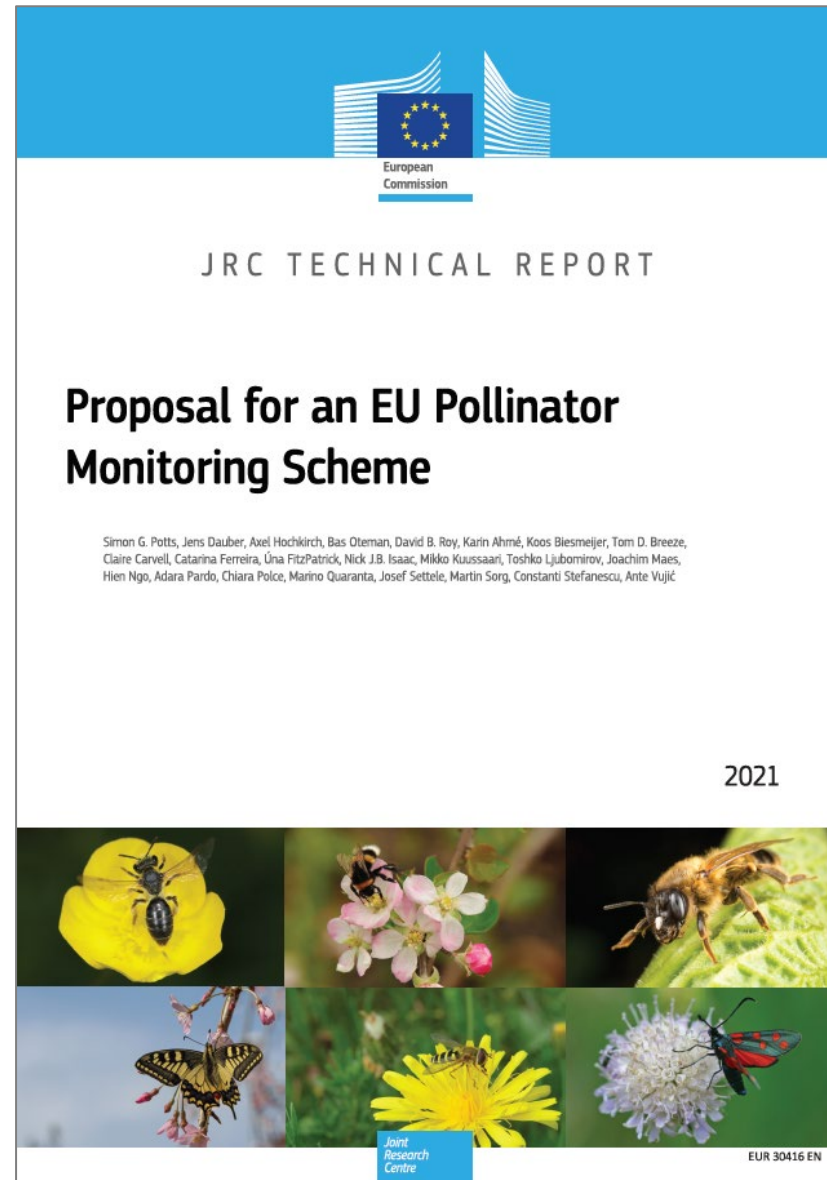


WS5: Integration
Simon Potts, Joachim Maes & Chiara Polce

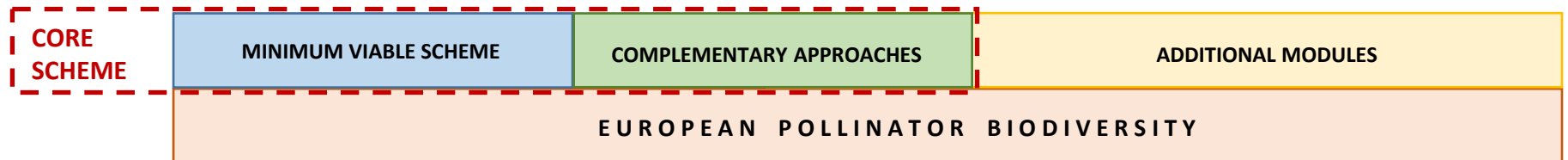


Plus 13 other experts, together covering:

Belgium, Bulgaria, Finland, Germany, Ireland, Italy, Netherlands, Serbia, Spain, Sweden & UK

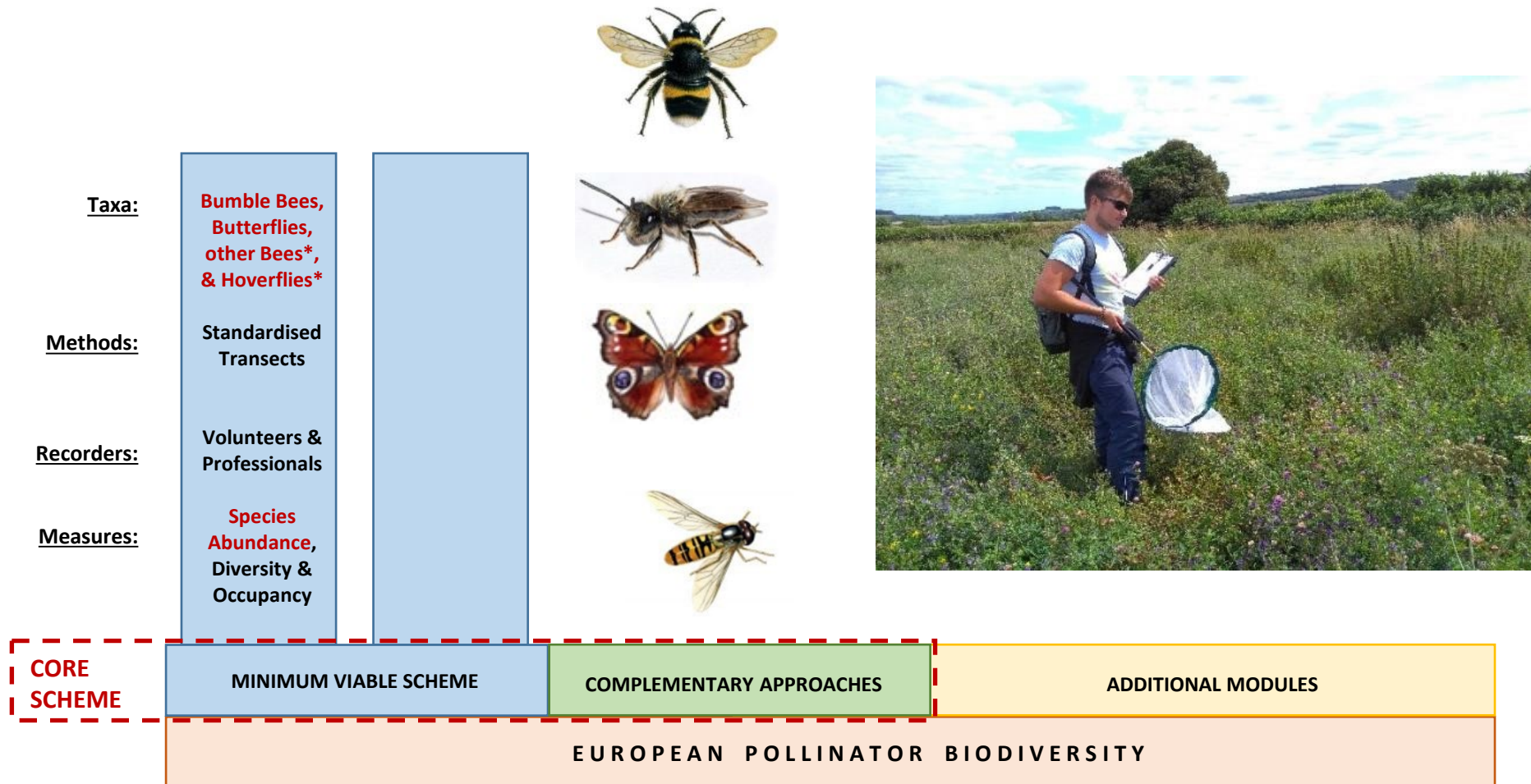


Proposal for EUPMS



SPRING: Strengthening Pollinator Recovery through INdicators and monitorinG

Minimum Viable Scheme

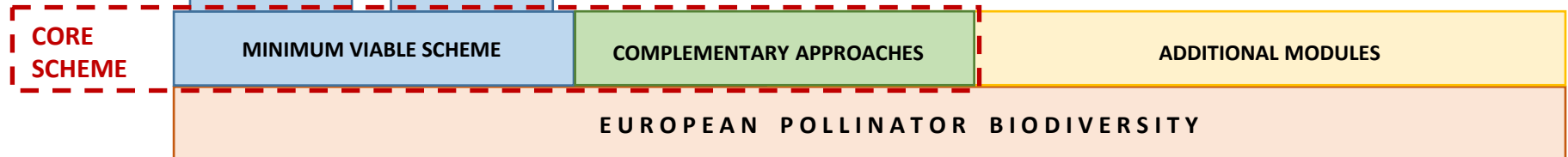


SPRING: Strengthening Pollinator Recovery through INDicators and monitoring

Minimum Viable Scheme

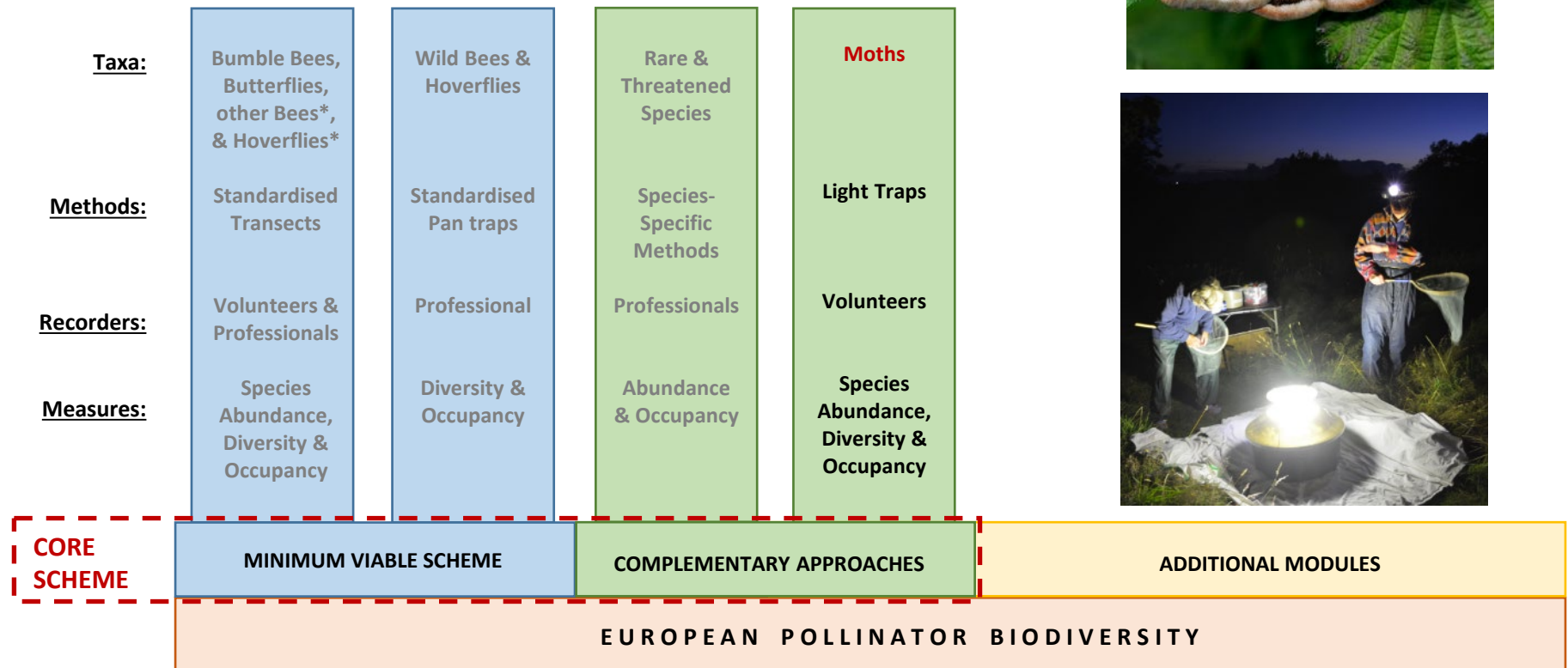


<u>Taxa:</u>	Bumble Bees, Butterflies, other Bees*, & Hoverflies*	Wild Bees & Hoverflies
<u>Methods:</u>	Standardised Transects	Standardised Pan traps
<u>Recorders:</u>	Volunteers & Professionals	Professional
<u>Measures:</u>	Species Abundance, Diversity & Occupancy	Diversity & Occupancy



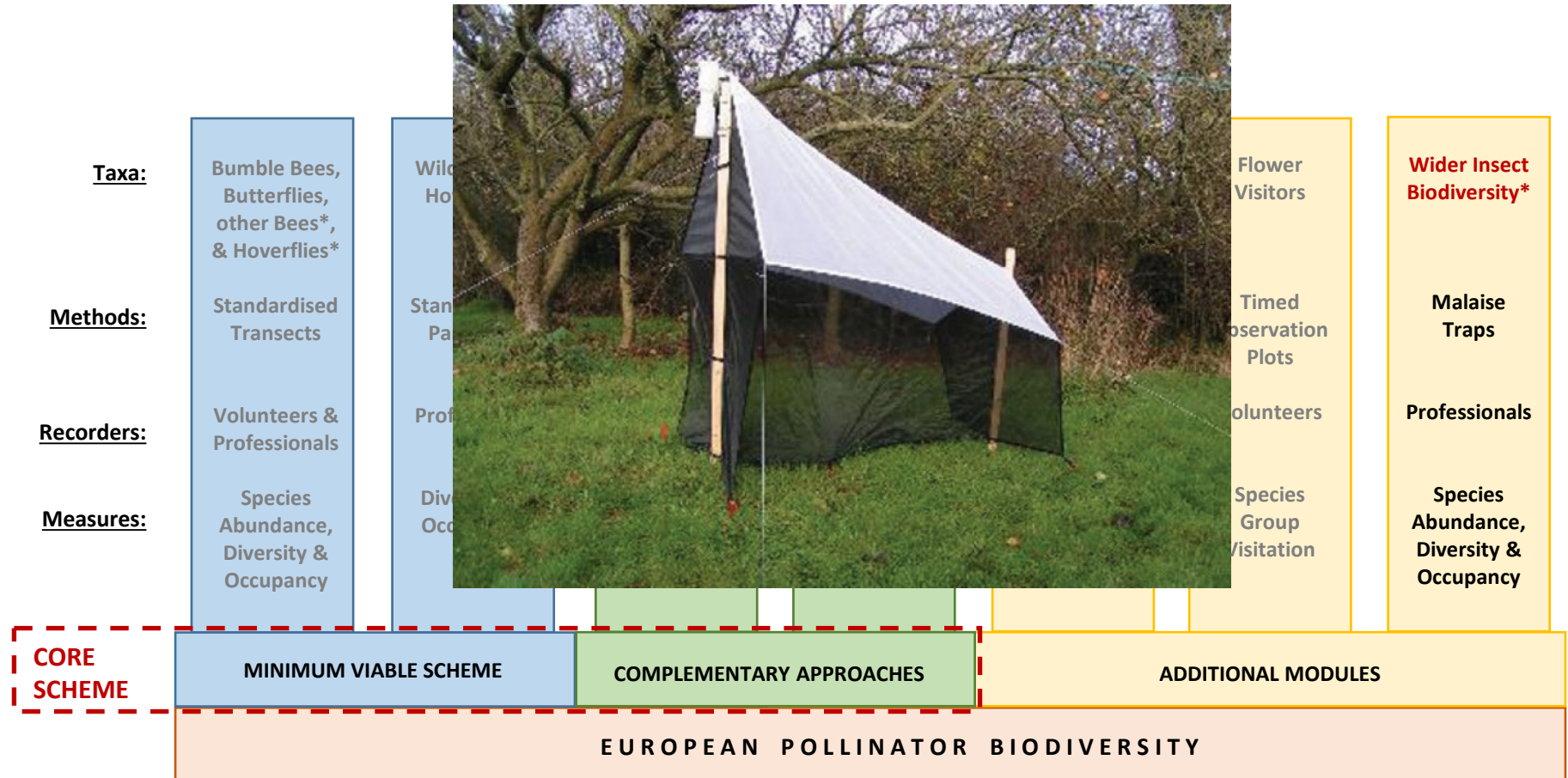
SPRING: Strengthening Pollinator Recovery through INDicators and monitoring

Complementary approaches



SPRING: Strengthening Pollinator Recovery through INDicators and monitoring

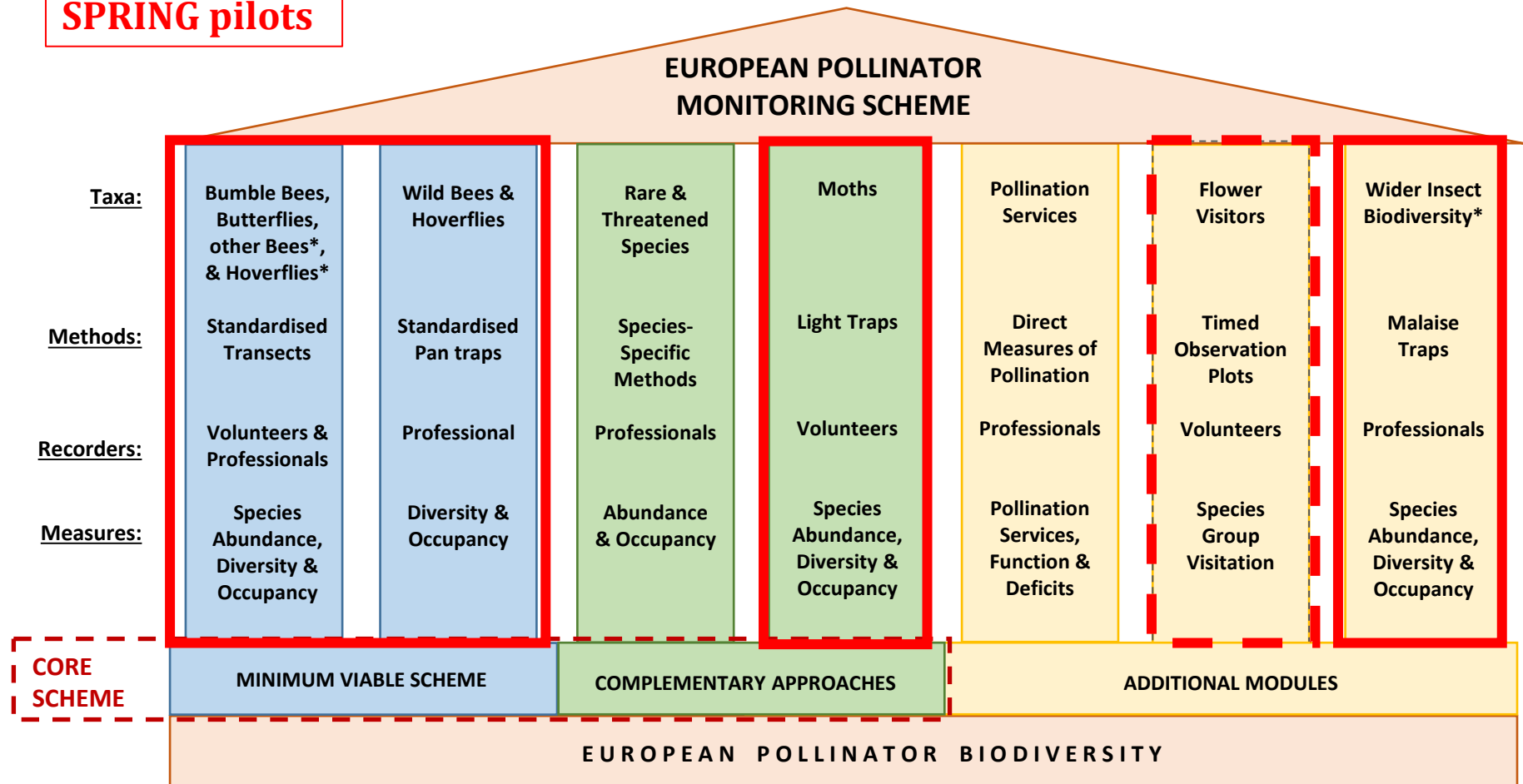
Additional modules



SPRING: Strengthening Pollinator Recovery through INDicators and monitoring

The full EUPMS

SPRING pilots



SPRING: Strengthening Pollinator Recovery through INDicators and monitoringG

Piloting the approach

SPRING: Strengthening Pollinator
Recovery through INdicators and
monitorinG

Parliamentary Preparatory Action contract, co-
ordinated by DG Environment, €5m

May 2021 to November 2023

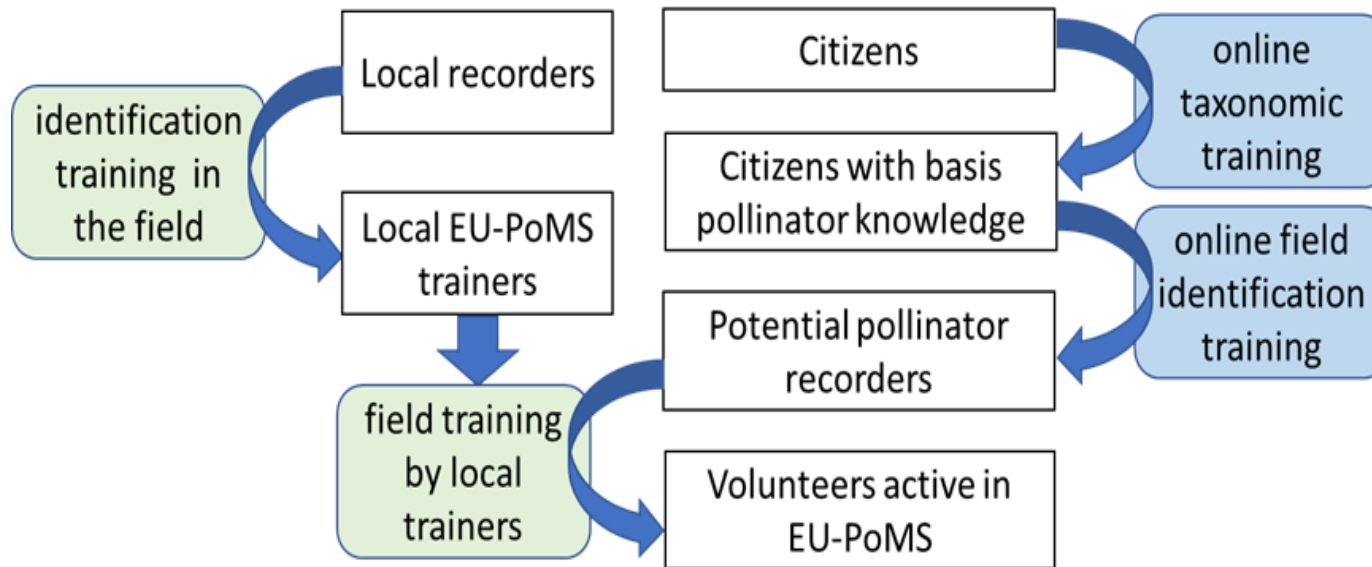
19 partners, UFZ lead

Expansion of eBMS and citizen science networks on pollinators (19%)



Taxonomic capacity building (38%)

Basic taxonomic training scheme for EU-PoMS

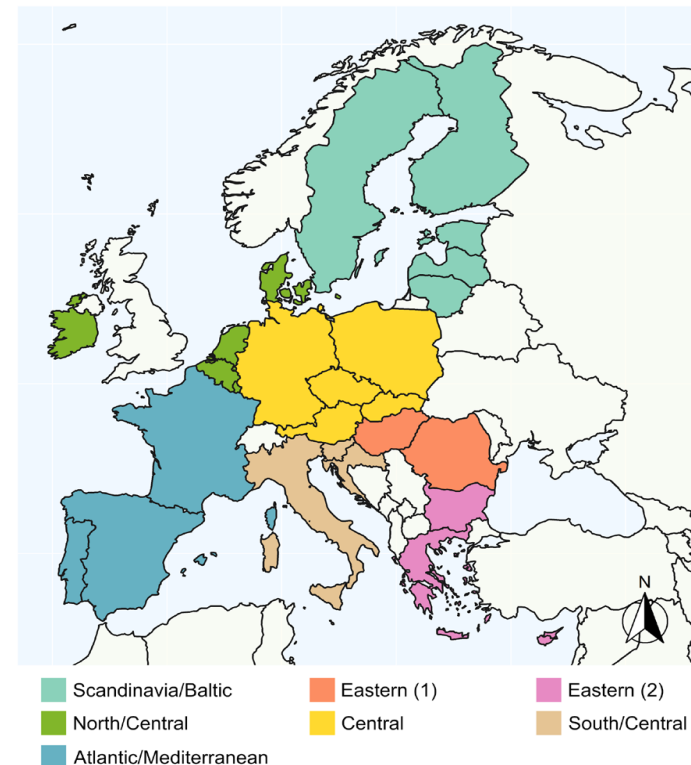


Advanced taxonomic training scheme for taxonomic experts responsible for EU-PoMS

Piloting a Minimum Viable Scheme (31%)

~200 pilot sites in 2022
and 2023, covering all
Member States

Testing refinements of
the method



Testing complementary and additional modules (10%)



Netherlands, Spain, Germany,
Hungary, Sweden

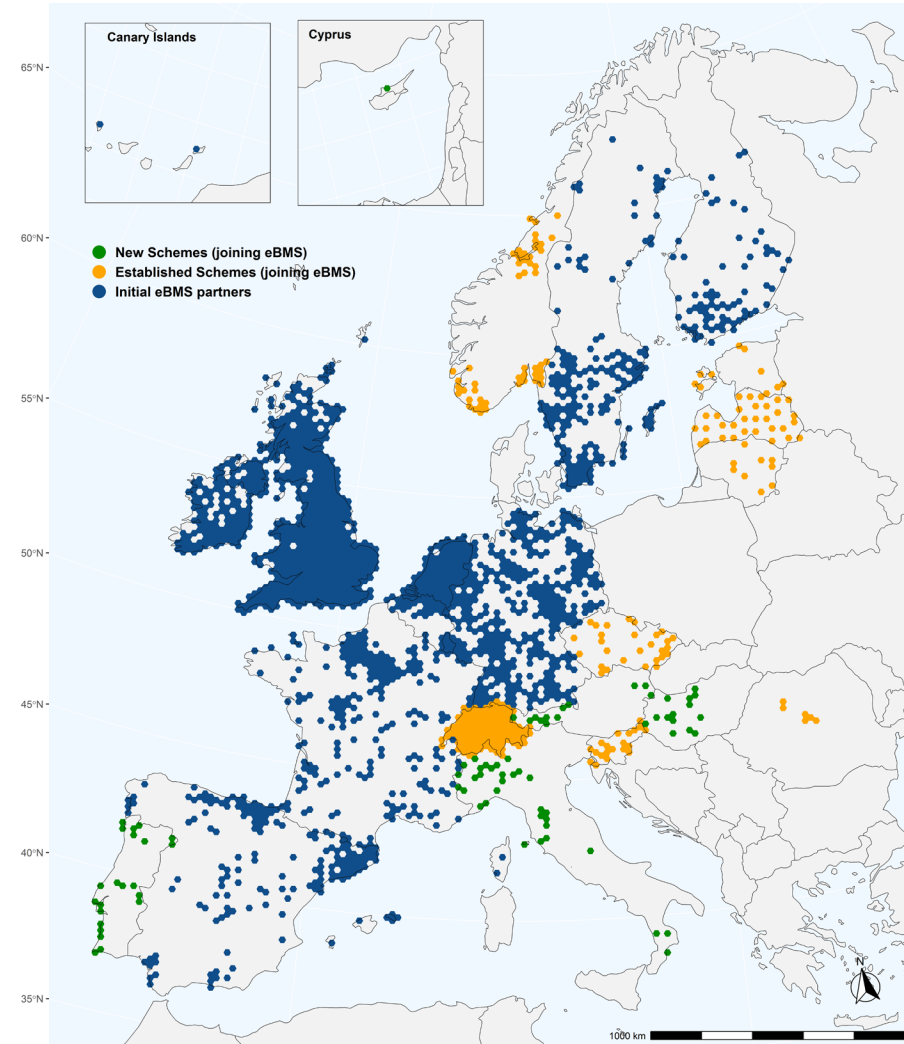


Netherlands, Germany,
Hungary, Sweden, Greece

Butterfly Monitoring in SPRING

Build upon ABLE to:

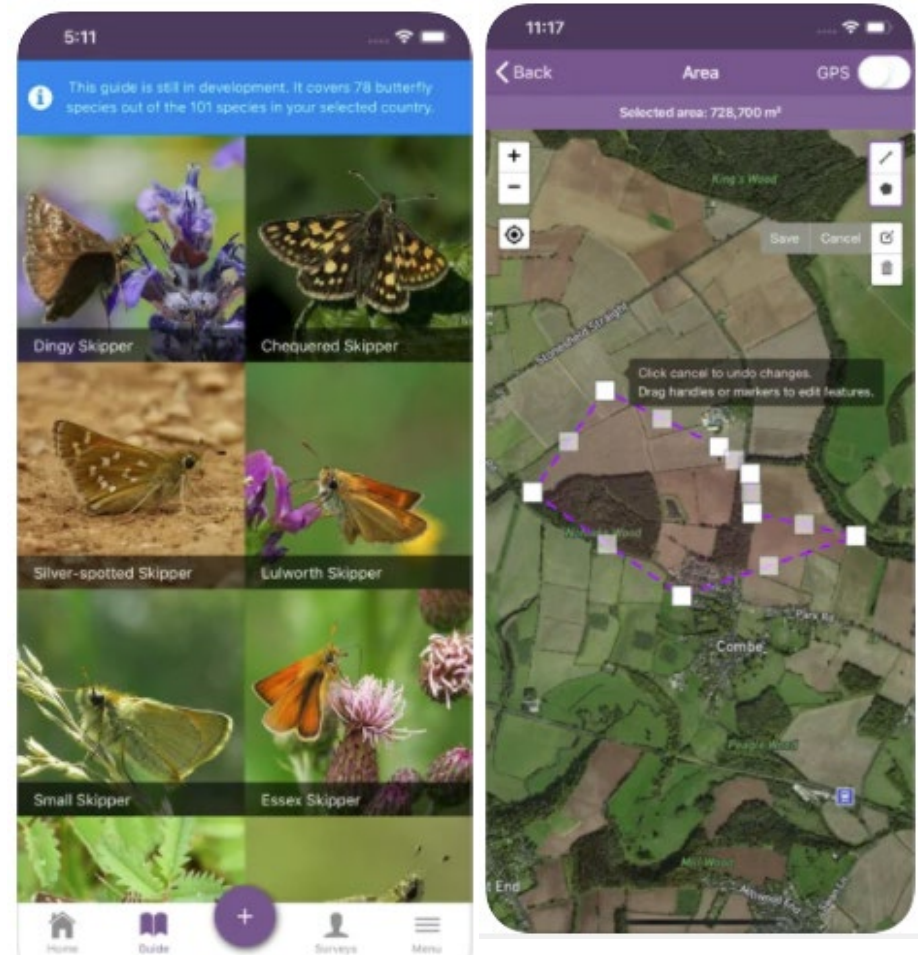
- Support the establishment of a BMS in EU countries lacking one: Denmark, Greece, Latvia, Lithuania, Romania and Slovakia



Butterfly Monitoring in SPRING

Build upon ABLE to:

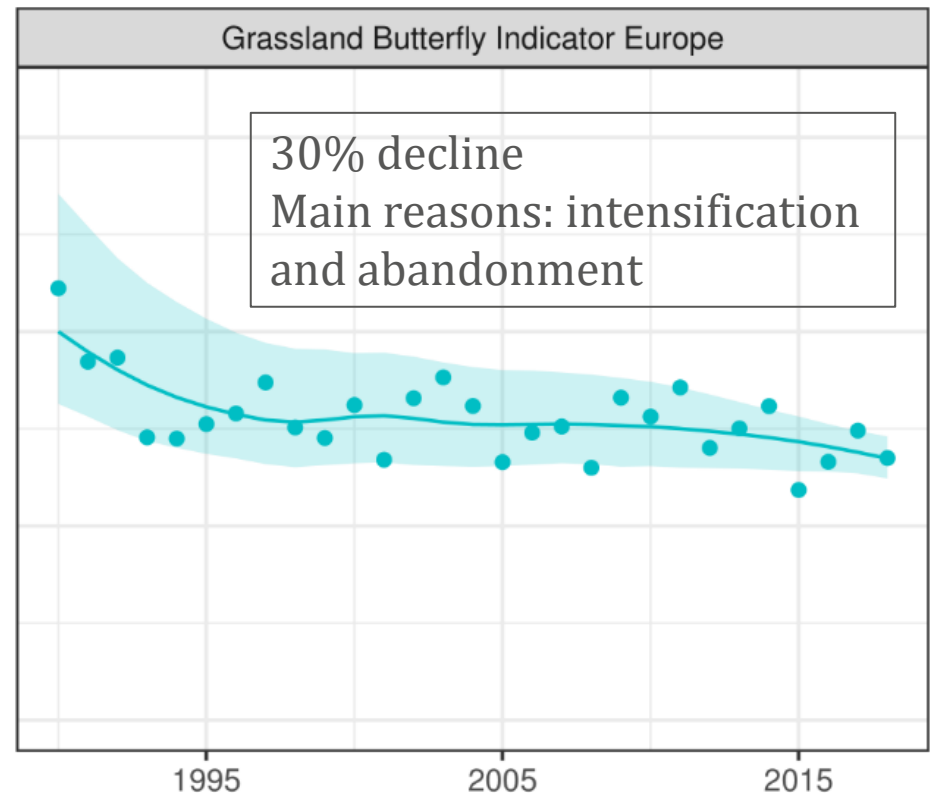
- Improved tools to support butterfly monitoring, particularly the rbms package, ButterflyCount app and website



Butterfly Monitoring in SPRING

Build upon ABLE to:

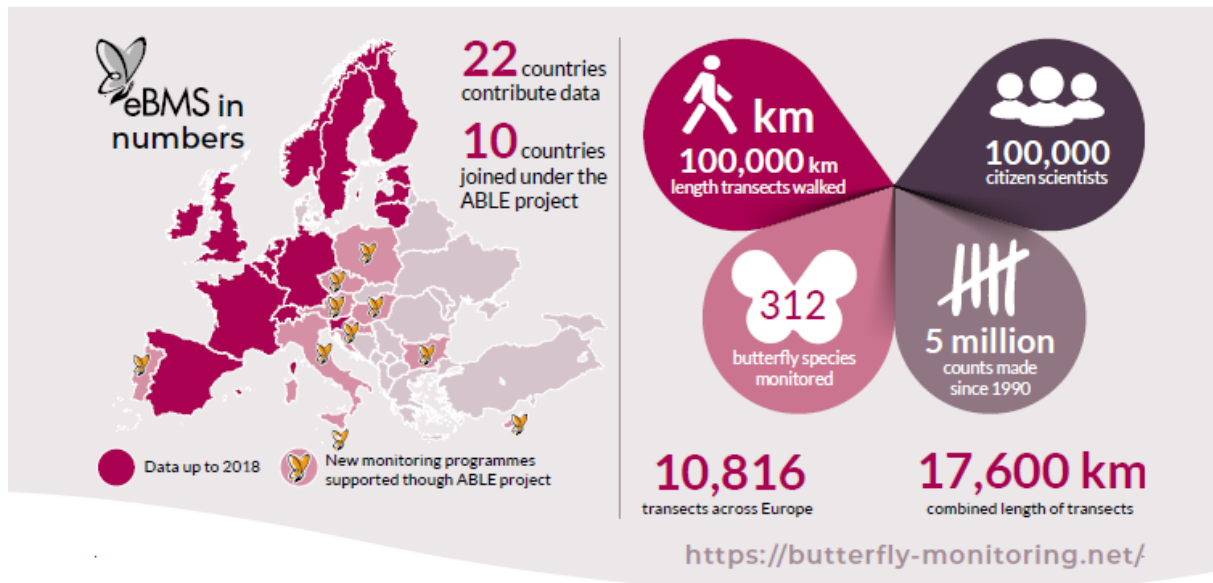
- Updated trends and indicators for a range of habitats



Butterfly Monitoring in SPRING

Build upon ABLE to:

- Help disseminate butterfly monitoring scheme results to policy makers and the public



Piloting the approach

SPRING: Strengthening Pollinator Recovery through INDicators and monitoringG

