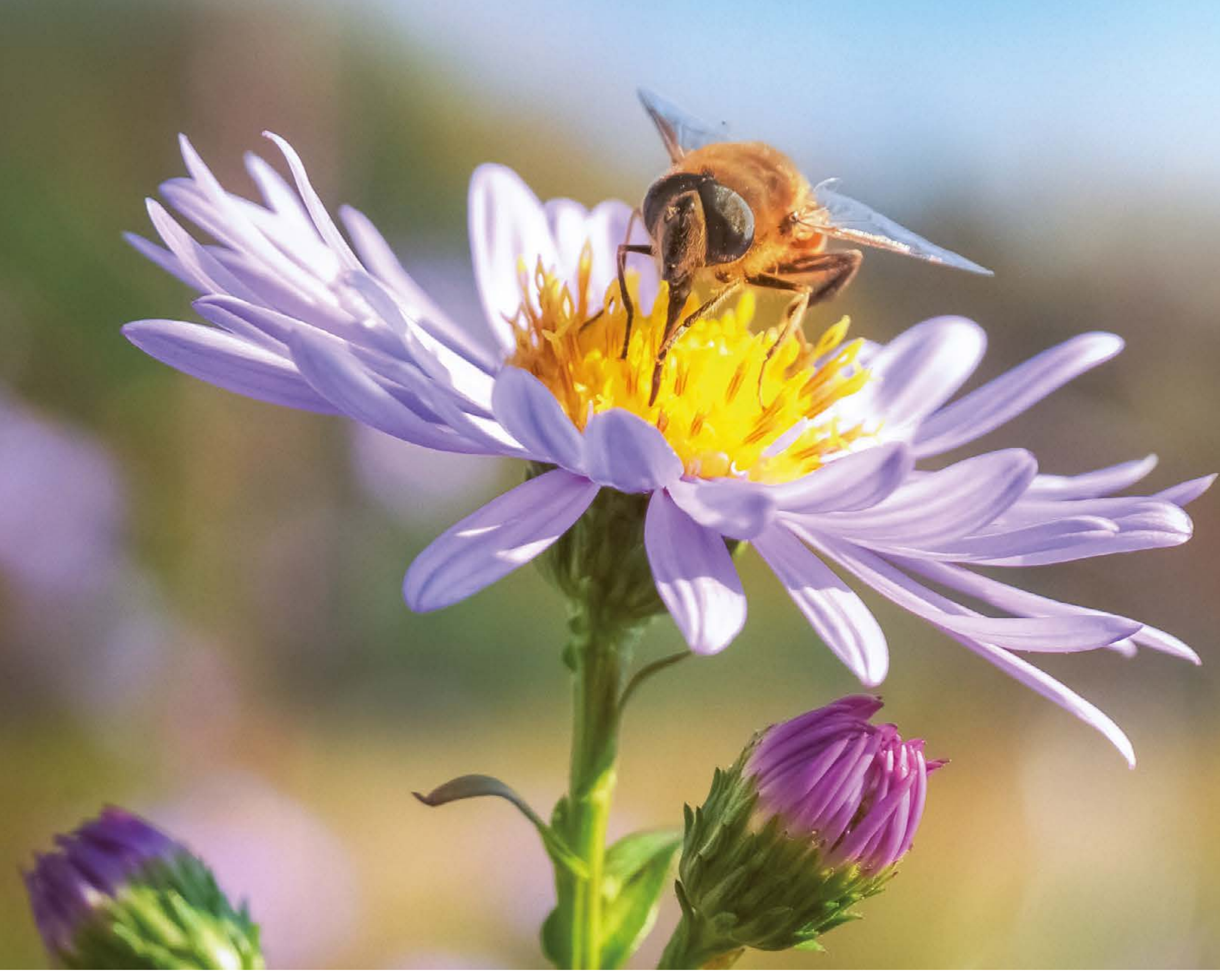


Bio Monitor 4CAP

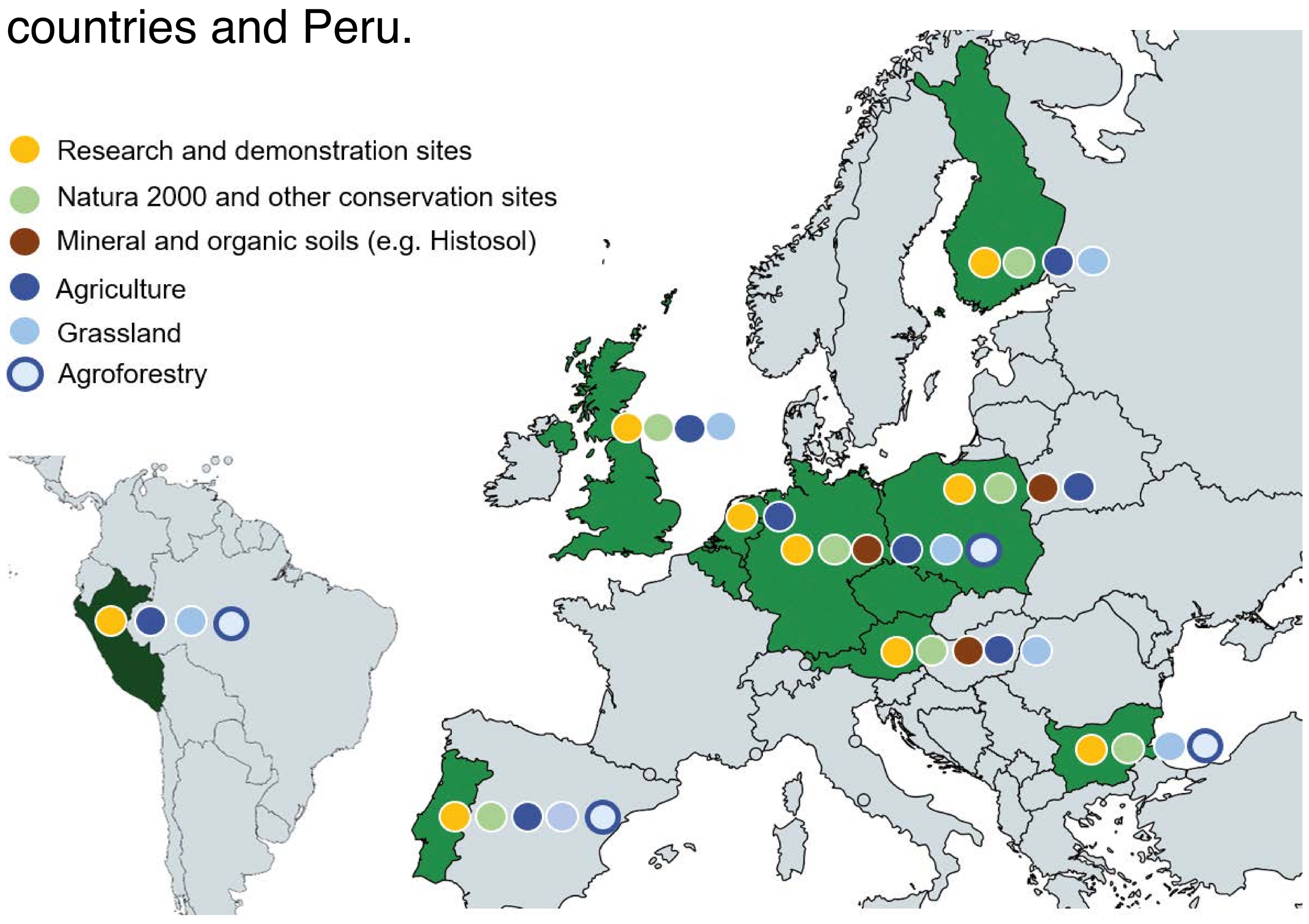
Advanced biodiversity monitoring for results-based and effective agricultural policy and transformation

Background

Despite efforts like action plans and the European's Common Agricultural Policy, multiple modern farming practices threaten biodiversity of agro-ecosystems. Current policy developments aim to improve this by focusing on result-based farming approaches. However, accurately tracking impact on biodiversity across diverse climates and farming systems remains to be challenging.
BioMonitor4CAP explores recent technology developments for cost-effective monitoring of birds, insects and soil biodiversity.

About BioMonitor4CAP

Funded under the European Union's Horizon Europe program, the project started in December 2022 and will last until November 2026. It involves 23 partners in 10 European countries and Peru.



The project engages with multiple stakeholders, such as farmers, conservationists, and service providers to ensure successful implementation of the new developed monitoring systems.

The partners

The project involves 23 partners in 10 European countries and Peru.

The BioMonitor4CAP goals

- Design simple and advanced biodiversity monitoring systems to measure in situ biodiversity of agricultural landscapes.
- Combine classical biodiversity indicator systems with new technological approaches.
- Provide farmers and the public with knowledge, tools, and predictive models to advance agricultural transformation, and support the development of EU policy.

Development of farmland biodiversity monitoring system

The project combines classical biodiversity indicator systems with new technological approaches, including acoustic, optical and molecular systems. A grid-based approach is applied for biodiversity monitoring that allows for sampling across different habitats within a landscape. Bird, insect, and soil sampling is combined with remote sensing methods. Processed data will be integrated into a GIS database and accessible via a web tool.

Grid-based sampling (1st year test setup)

Metabarcoding of insects: Pan & vane traps

Soil analysis: eDNA & physico-chemical samples

Acoustic recordings of birds, bats, insects: AudioMoth, AgriSound devices

Photo recordings of insects: Various camera trap systems

This project has received funding from the European Union's Horizon Europe programme under grand agreement No. 101081964.

Funded by the European Union

Further information:
www.biomonitor4cap.eu/en