MODERN APPROACHES
TO THE MONITORING
OF BIODIVERSITY

Funded by
the European Union

MAMBO newsletter 2025

As the summer sun continues to shine, we bring you the third edition of the MAMBO newsletter. Check out our latest updates, scientific outputs and relevant news!

MAMBO publications corner

[Data of vegetation structure metrics retrieved from airborne laser scanning surveys for European demonstration sites](#)

[Emerging technologies for pollinator monitoring](#)

[Towards consistently measuring and monitoring habitat condition with airborne laser scanning and unmanned aerial vehicles](#)

[Mapping global orchid assemblages with deep learning provides novel conservation insights](#)

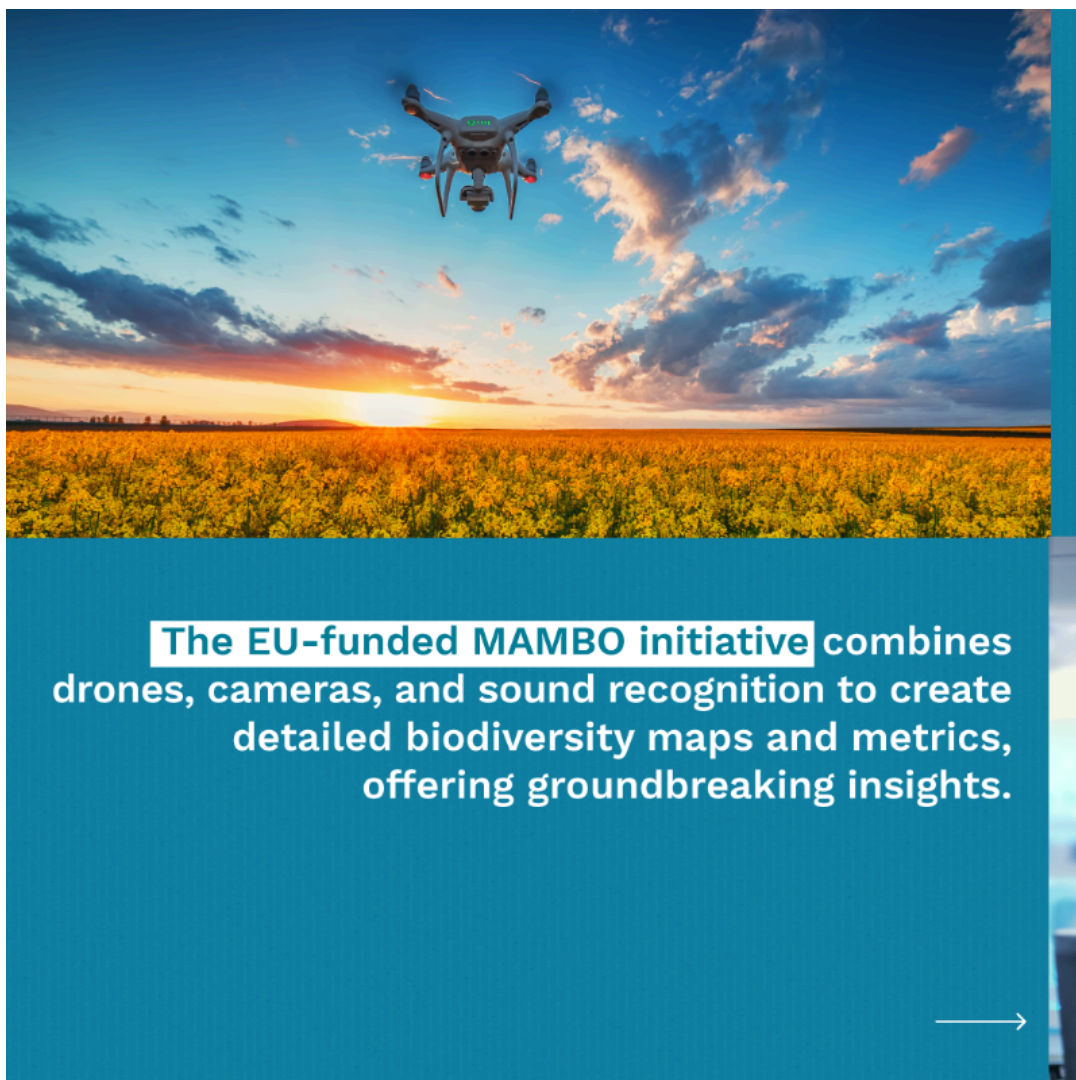**Visit MAMBO's website to access the complete list of**

MAMBO outcomes

MAMBO updates

eLTER Science Conference

📅 **23–27 June 2025** | eLTER SCIENCE CONFERENCE 2025 | 📍 **Tampere, Finland**

Towards a whole-system approach for ecosystem science

Click here for more information

At the first eLTER Science Conference, MAMBO coordinator Toke Thomas Høye delivered a keynote exploring how sensor networks and deep learning are reshaping species monitoring. Drawing on examples from MAMBO and other large-scale initiatives, he highlighted the role of automated observation systems in producing high-quality biodiversity data. His talk also raised important questions about future research needs and the integration of such technologies into long-term ecological monitoring frameworks.

MAMBO featured in Horizon Magazine

The EU-funded MAMBO initiative combines drones, cameras, and sound recognition to create detailed biodiversity maps and metrics, offering groundbreaking insights.

In January Horizon Magazine, the EU's official research and innovation outlet, featured MAMBO in an article exploring how citizen science and cutting-edge technologies are transforming biodiversity monitoring. The piece highlights MAMBO's efforts to improve how species and habitats are tracked, combining tools like drones, camera traps, and AI models with citizen-contributed data. It also touches on MAMBO's focus on environmental sustainability in tech development and its alignment with the EU Biodiversity Strategy for 2030.

Read the article here

Synergies

MAMBO and GUARDEN co-organise training sessions on GeoPl@ntNet and Pl@ntNet Plot

On 19 June 2025, MAMBO and GUARDEN held an in-person training session in Montpellier to present two cutting-edge tools: GeoPl@ntNet and Pl@ntNet Plot. Developed by the CIRAD team, these platforms use AI to support large-scale, standardised monitoring of plant communities. The session introduced participants to interactive biodiversity maps and automated species identification from high-resolution vegetation images, offering valuable insights into the tools' scientific foundations and practical applications.

Learn more

MAMBO and GUARDEN co-host a joint conference on AI for Biodiversity in Montpellier

In May, MAMBO and GUARDEN co-hosted the DeepSDM symposium in Montpellier, bringing together over 120 participants to explore deep learning applications in species distribution modelling. The event featured expert talks, tool demos, and collaborative workshops advancing scalable, AI-powered biodiversity monitoring.

DeepSDM 2025 Conference

Read more

News from the EU policy for biodiversity

Taking biodiversity knowledge to EU policymakers

BioAgora is the Horizon Europe project tasked with building the Science Service for Biodiversity, the scientific pillar of the European Commission's Knowledge Centre for Biodiversity. Researchers and professionals can engage with BioAgora and the Science Service by:

- contributing to policy requests for knowledge issued by the EC;
- participating in policy dialogues on key biodiversity topics;
- joining a Knowledge Exchange Network based on your field of expertise;
- sharing knowledge together with BioAgora.

BioAgora has an active knowledge exchange network on the topic of monitoring, check it out here and get in touch at contact@bioagora.eu.

Relevant news

EC call for EBOCC pilot

The European Commission has launched a €7 million call to pilot the European Biodiversity Observation Coordination Centre (EBOCC), based on the proposal of the EuropaBON project. The pilot aims to enhance the coordination, availability, and accessibility of biodiversity data to support EU policy implementation.

Read more

The first eLTER Science Conference

Check the conference highlights

The Nature FIRST Final Conference

Read the reflections

MAMBO collection in RIO

This collection presents significant findings and outcomes from the project.

As the MAMBO project progresses, the RIO collection will continue to expand, providing a valuable resource for researchers, policymakers, and practitioners.

View here

MAMBO on social media

We joined Bluesky!

Follow us!

Highlights 2024

We ended 2024 with a video appreciating all the accomplishments MAMBO partners achieved during the past year. You can watch the video below to discover all project achievements from 2024.

Follow us on our social media channels to stay on track with all our updates!