



*A wild bee, Amegilla albigena, approaching a rosemary bush. Bees are key pollinators ensuring the functioning of ecosystems.*

## OBServ – Open Library of Pollinator Biodiversity and Ecosystem Services

### Context

Biodiversity is now recognized as pivotal in maintaining ecosystem functions and providing ecosystem services with positive impacts for human well-being. Paradoxically, biodiversity is also being lost at unprecedented rates due to rapid human-induced environmental changes. OBServ focuses on pollinators and the pollination service they provide given their key contributions to biodiversity maintenance and food security and their threatened status globally.

### Main objectives

OBServ aims to provide guidance and a formal cost-benefit analysis on the use of different modelling approaches to develop scenarios of pollinator biodiversity and ecosystem services provision. Rather than aiming at finding one model that can be applied universally, we need tools that allow us to select the right models for each situation while taking into account model complexity and data requirements.

### Main activities

OBServ will use the open source environment k.LAB to develop a user-friendly open library of modelled scenarios in collaboration with stakeholders. By using a participatory approach with relevant stakeholders from four different countries, the project will assess the utility of the developed models and scenarios for the end users, including performance across scales and proper communication of uncertainty. The best models will be used for map pollination services under different environmental scenarios ranging from global trends extracted from IPCC and land use cover predictions, to local potential implementations of better management practices.

Specific activities for dissemination of the project's outputs, knowledge transfer and involvement of stakeholders / policy-makers will include stakeholders workshops, demonstration events, and webpage tutorials on how to use the developed tools.

### Partners of the project:

**Estación Biológica de Doñana, CSIC, Seville, SPAIN**

Basque Centre for Climate Change, Leioa, SPAIN

Instituto de Investigaciones en Recursos Naturales, Agroecología y Desarrollo Rural, San Carlos de Bariloche, ARGENTINA

Wageningen University, THE NETHERLANDS

Rutgers University, New Brunswick, USA

### Duration:

01-2019 to 03-2022

### Total grant:

€ 769,449

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