



>entopreneurs<



**APPLIED ENTOMOLOGY
LABORATORY**



Our laboratory 🏠

The **Entopreneurs** laboratory specializes in the design and execution of **technical trials and applied tests for the industrial production of insects**, as well as other key areas of applied entomology.

We provide **rigorous, customer-focused and specialized technical support** to companies and organizations developing projects in research, optimization and industrial scale-up phases, adapting experimental protocols to the specific needs of each project.

Our work is supported **by more than 30 years of accumulated experience in applied entomology**, with projects developed across multiple sectors related to the production and utilization of insects.



Areas of specialization



Biological control agents

Applied research aimed at improving production systems for **beneficial insects** (predators and parasitoids) used in the biological control of agricultural and ornamental pests.



Human and animal nutrition

Technical support for the **development and optimization of production systems** for the main insect species used for biomass generation



Bioconversion

Optimization of processes for the **transformation of organic by-products using insects**, aimed at efficient and sustainable valorization.



Pollinators

Technical consultancy for the **optimization of production systems for pollinator species**, particularly dipteran pollinators



Technical services



Comparative trials of **diets** and **substrates. Nutritional analyses**



Validation and optimization of **rearing protocols**



Monitoring and **definition of key production parameters**



Laboratory-scale pilot trials prior to industrial scale-up



Assessment of **production conditions** in controlled environments



Preparation of **technical reports** to aid decision-making

Insect nutrition

Development and evaluation of **nutritional strategies** aimed at **optimizing productive performance**, fitness and stability of insect rearing systems

- ✕ Comparative trials of diets and formulations
- ✕ Assessment of alternative substrates and raw materials
- ✕ Optimization of feed protocols
- ✕ Stability, texture and bioavailability analyses
- ✕ Studies on feed conversion and production performance
- ✕ Assessment of nutritional impact on growth, survival and reproductive success
- ✕ Optimization of costs associated with feeding systems





Biological control

Technical solutions for the **optimization of production systems for beneficial insects** used in biological and integrated control of agricultural and ornamental pests.

- ✕ Optimization of breeding protocols
- ✕ Assessment of diets and alternative prey/hosts
- ✕ Reproductive performance and productivity trials
- ✕ Optimization of rearing conditions (climatic conditions, stocking density, substrates, etc.)
- ✕ Validation of protocols prior to industrial-scale production

Bioconversion and circular economy

Studies focused on **the valorization of organic by-products through insects**, optimizing bioconversion from a technical, economic and environmental perspective.

- ✕ Assessment of by-products as rearing substrates
- ✕ Bioconversion efficiency tests
- ✕ Optimization of substrate formulation
- ✕ Assessment of production performance and waste reduction
- ✕ Pilot studies prior to industrial implementation
- ✕ Technical support for integration into circular production models





Human and animal nutrition

Specialized technical support for the **development, optimization and validation of insect production systems** aimed at generating biomass for human and animal nutrition.

- ✕ Optimization of breeding and rearing protocols
- ✕ Evaluation of diets and production substrates
- ✕ Trials on yield and fitness
- ✕ Validation of protocols prior to industrial-scale production
- ✕ Development of pilot tests on a laboratory scale

Pollination

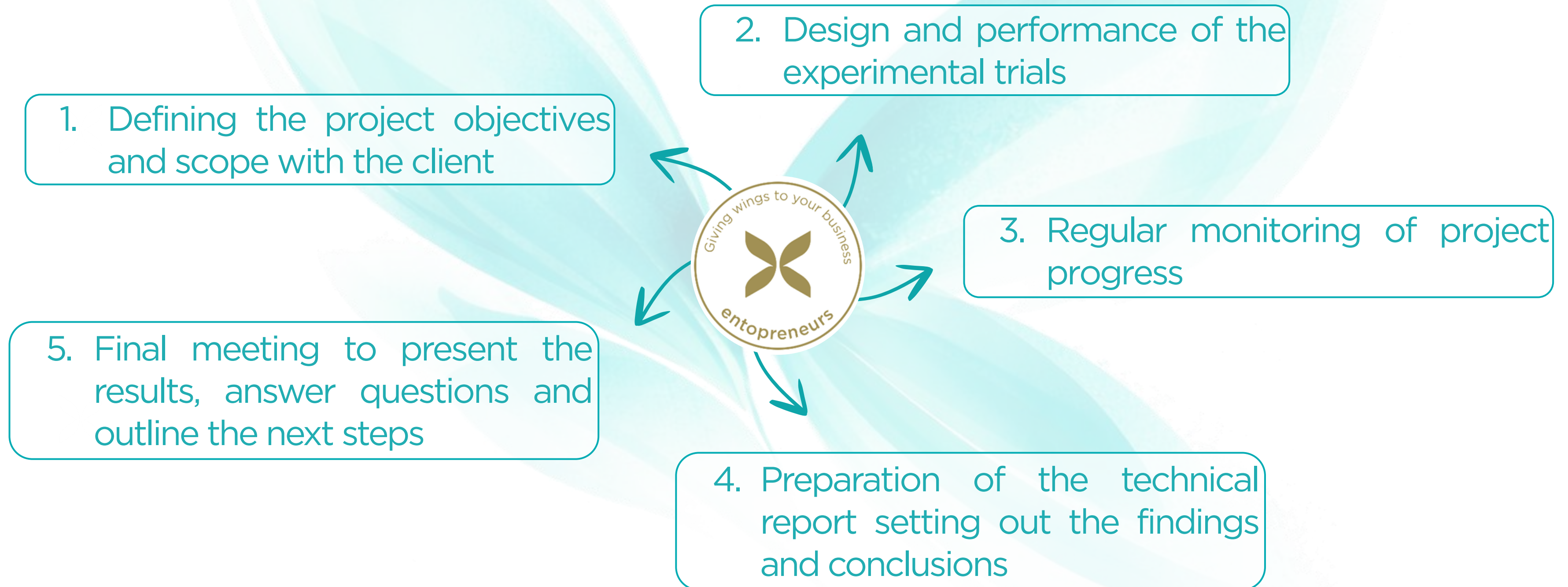
Technical solutions for the **optimization of production systems for dipteran pollinator species** to ensure efficient pollination of protected and open-field crops.

- ✕ Assessment and optimization of breeding systems for pollinating dipterans
- ✕ Comparative trials of diets and production substrates
- ✕ Optimization of laboratory management and reproduction protocols
- ✕ Assessment of production parameters and rearing conditions
- ✕ Validation of production systems prior to scaling up or commercial application





Our working methodology





Economic assessment 🤝

We provide **fully customized** solutions adapted to the nature and objectives of each project.

Each case is analyzed individually to define the **technical scope and required resources** before preparing a financial proposal.

Our quotations are **clear, detailed and transparent**, ensuring aligned collaboration from the earliest stages of the project.



>entopreneurs<
Giving wings to your business

info@entopreneurs.tech
www.entopreneurs.tech
<https://es.linkedin.com/company/entopreneurs>