

Highlights

Mosquito control management platform Ecodev e-bite

As of 1/3/2021, the e-bite online platform developed by Ecodevelopment S.A. for mosquito control projects is fully operational.

This platform contributes to both the organizational optimization of the implementation of these projects as well as the effective supervision of the projects aiming at their overall successful presentation.

e-bite is an online suite of flexible digital tools for recording, monitoring, visualization and analysis of actions performed as well as for the field data collected in real time.

The e-bite platform in full development includes the following functions:

1. The weekly visits and applications in the settlements as well as the weekly report of the specific visits (ability for custom report creation)
2. The real-time recordkeeping and monitoring of the actions carried out in the field: sampling of larvae and adult mosquitoes, sampling results, spraying interventions, entomological monitoring of adult mosquitoes
3. Real-time traffic monitoring of the fleet of vehicles participating in the projects (Fleet Online)
4. The up-to-date online map of mosquito breeding sites (WebGIS)
5. The prediction of mosquito nuisance (Mosquito Vision application)

The new platform comprises:

- Immediate and continuous updating of the weekly planning, possible daily changes and the report of the technicians' movement.
- A simplification in the information of both the performed mosquito control actions as well as the data collected.
- A reduction of errors through the automated validation process.
- A remote and restricted access of available information to the interested bodies.
- Supervisory presentation of the data in a common cartographic background.
- The ability to store and retrieve past and present data and metadata.
- Easy access to all information with one password
- Compliance with applicable mandatory environmental standards.

At present, the daily e-bite field data are being produced by more than 80 employees in the field which are processed and leveraged by the scientists – project managers. More than 100 executives of the control authorities (Regions and Municipalities) have access rights.

The digital raw data concerning mosquito larvae consist of over 3 million records and derive from 220,000 inspections of mosquito breeding sites in five regions of the country (Central Macedonia, Western Greece, Thessaly, Western Macedonia and Crete).

In the near future with the operation of the mosquito nuisance prediction application (Mosquito Vision starting from 15/5) and with the operation of a citizen science scheme (concerning interactive management of citizens' calls), the first version of the e-bite platform will be completed successfully.