



LIFE + Environment Policy & Governance

ANNEX B.7

Deliverable B.7: Development of integrated management plans to control IMS

November 2018

LIFE CONOPS (LIFE12 ENV / GR / 000466)

Development & demonstration of management plans against
- the climate change enhanced - Invasive Mosquitoes in S. Europe



The **LIFE CONOPS** project “Development & demonstration of management plans against - the climate change enhanced - invasive mosquitoes in S. Europe” (LIFE12 ENV/GR/000466) is co-funded by the EU Environmental Funding Programme **LIFE+ Environment Policy and Governance**.

Implementation period: 1.7.2013 until 31.12.2017

Project budget: Total budget: 2,989,314 €
EU financial contribution: 1,480,656 €

LIFE CONOPS’ Participating Beneficiaries:



**Benaki Phytopathological Institute
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Agricultural University of Athens



Azienda Unità Sanitaria Locale della Romagna



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This deliverable was implemented in the terms Action B.7 and concerns the Development of integrated management plans to control IMS.

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Abstract

Aedes albopictus, also known as “Asian Tiger Mosquito”, is an invasive mosquito species to Europe, causing high concern in public health for its severe nuisance and its vectorial capacity for transmitting pathogens such as dengue, chikungunya, yellow fever and Zika. Consequently, the responsible authorities implement management activities to reduce its population density, possibly below the noxious and the epidemiological thresholds. In urban areas these aims are difficult to achieve because of its ability to develop in a wide range of artificial breeding sites, mainly in private properties. This document (Management Plan) has been structured as a comprehensive, practical and technical guidance to assist stakeholders in organizing the vector control activities in the best possible way. The current plan includes coordinated actions such as standardized control measures and quality control activities, monitoring protocols, activities for involving stakeholders and local communities and an emergency vector control plan to reduce the risk of an epidemic.

Differentiations with Action B.5

In **Action B.5** we presented a detailed design of management plan to control IMS (Invasive Mosquito Species) part of LIFE CONOPS project. It was focused on *Aedes albopictus* as the IMS already well established both in Greece and in Italy, to which the terms “control” therefore applies as the only option we currently have to reduce the density of the species. Others IMS not present yet in the two countries, or present in limited areas, may deserve specific and different approaches. The document has been structured as a comprehensive practical technical guideline to assist local authorities in organizing the field activities in the best possible way.

The LIFE CONOPS scientific team in **Action B.6** implemented the produced Management Plan and together with other experts and stakeholders review and finalized it. In more details, during Actions B6 and B7 it was possible to collect extra useful data because of the implementation of the management plans in other areas different from the pilot areas.

The designed management plan in **Action B.5**, was a comprehensive practical technical guideline to assist local authorities in organizing the vector control activities in the best possible way. During implementation phase, we evaluate and review it to produce the final deliverable for **Action B.7**. A part of its evaluation was conducted during the standard operational procedures for emergence vector control operations in case of Dengue, Chikungunya and Zika cases detection (Circular from Ministry of Health, Greece, ΑΔΑ: ΩΜΙ7465ΦΥΟ-Χ4Θ).

Compared with the deliverable in Action B.5, one major area of concern centered on reform the entomological surveillance with ovitraps. In more details, two methods suggested during