



**ANNEX C.1.4**

**Deliverables C.1: Report for mosquito control**

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**.

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**Benaki Phytopathological Institute**  
**(Coordinating Beneficiary)**



**Agricultural University of Athens**



**Azienda Sanitaria Locale Cesena**



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**Regione Emilia-Romagna Public Health Service**



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The current deliverable belongs to Action B.2.12: Database with the Dengue, Chikungunya and Zika virus status in adult females IMS in pilot areas (Final report) in the framework of LIFE CONOPS Project.

**STRICTLY CONFIDENTIAL REPORT**

**Only for the scope of the mid-term report. Not to be distributed to third parties.**

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## Terminology - Abbreviations

**ECDC:** European Centre for Disease prevention and Control

**HCDC:** Hellenic Center for Disease prevention and Control

**BPI:** Benaki Phytopathological Institute

**NSPH:** National School of Public Health

**DENV:** Dengue virus

**CHIK:** Chikungunya virus

**ZIKV:** Zika virus,

**IMS:** Invasive Mosquito Species

**Imported:** A case the origin of which can be traced to a known malarious area outside the country in which the case was diagnosed

**Autochthonous (local):** A case acquired by local transmission

**Indigenous:** any case contracted locally without strong evidence of a direct link to an imported case

**Introduced:** a case contracted locally with strong epidemiological evidence linking directly to a known imported case

**Induced:** A case the origin of which can be traced to a blood transfusion or other form of parenteral inoculation but not to normal transmission by mosquito

**VBDs:** Vector-Borne Diseases are illnesses caused by pathogens and parasites in human populations.

**Vectors:** are living organisms that can transmit infectious diseases between humans or from animals to humans.

## **SUMMARY**

**BACKGROUND:** The current deliverable contains information about the entomological surveillance for mosquitoes carried out in several areas of Greece and Italy, where Dengue, Chikungunya and Zika cases had been recorded.

**RESULTS:** In collaboration with HCDCP/KEELPNO and the National School of Public Health for the years 2017 and 2018 in Greece, few Dengue, Chikungunya and Zika imported cases were recorded. According to the results, *Aedes albopictus* was the main species recorded and all the samplings generated negative for Dengue and Chikungunya virus.

In 2017, in Italy, 125 cases of imported cases of chikungunya, dengue e zika virus were recorded, together with three clusters involving autochthonous transmission of chikungunya virus. In 2018, in Emilia Romagna during the period of vector presence, three imported cases of dengue were detected (17 cases were imported during the calendar year).

**CONCLUSION:** The surveillance activities including entomological investigations are of major importance after the notification of such imported cases. Also, are important to assess the risk of local transmission and decide public health measures. It is essential in an imported case of these diseases to follow specific procedures in order to avoid transmission. The developed management plans are already legally in force since September 2016 when the Ministerial Circular of the Hellenic Ministry of Health for the adoption of LIFE CONOPS' Management Plans towards the confrontation of Dengue, Chikungunya and Zika virus in Greece, was issued.