

# LIFE + Environment Policy & Governance

### Annex C.3.3

Integrated report with the socioeconomic evaluation of the management plans

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LIFE CONOPS (LIFE12 ENV / GR / 000466)

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



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#### **Table of Contents**

1.	Abstact	6
2.	Introduction	7
3.	The implementation of Choice Experiment for the Greek Case	10
4.	The implementation of Web Questionnaire to Greek Citizens	27
5.	The implementation of a Stakeholders' and Experts' Survey in Greece and Italy	34
6. prev	The implementation of a household survey on the socioeconomic impacts of mosquention programs in the Region of Central Macedonia and in the island of Crete	uito 41
7.	The implementation of Household Survey in Italy (Emilia Romagna)	46
8. spec	The economic efficiency of improved management practices against invasive moscies in Greece	juito 53
9.	Conclusions	59
List	of References	64
10.	ANNEX A- The Complete Questionnaire to Households in Greek	71
11.	ANNEX B- The Complete Questionnaire to Stakeholders and Experts	81
12.	ANNEX C- The Complete Questionnaire to Households in Italian	87
13. web	ANNEX D- The Complete Questionnaire to Greek households distributed through the site of www.meteo.gr (in Greek)	gh the 101
14. Reg	ANNEX E- The Complete Questionnaire to Greek households distributed in the ion of Central Macedonia (in Greek)	108
15. of C	ANNEX F- The Complete Questionnaire to Greek households distributed in the Crete (in Greek)	island 113
16.	ANNEX G- CONTROL RESPONSE ACCORDING TO VARIOUS RISK LEV 117	ELS
17. auth	Annex H. A Database including results from structured interview for public sorities, officials and experts	121
18.	Annex I. A Database including structured survey's results.	121

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#### 1. Abstract

Climate change trends along with the intensified transportation of people and goods favor the entrance of invasive mosquitoes species (IMS) in places where only accidental entrance was previously recorded. At the same time budgetary financial constraints suggest a rigid justification of the prevention funds allocated to mosquito control. One aspect of this justification is the evaluation of the benefits induced by prevention measures. The present report evaluates various categories of costs and benefits induced by the implementation of management plans targeted to the control and prevention of invasive mosquito species in Greece and Italy. Those two countries, consist a representative case of a vulnerable Mediterranean ecosystem where the problem of mosquitoes has been recently intensified. The study is based on a mixture of methodological approaches, including the choice experiment method for the elicitation of benefit levels, citizen's surveys on the overall socioeconomic impact of the problem and a survey targeted to stakeholders' and experts' for the identification of qualitative parameters associated with the prevention and control of invasive mosquitoes. The analysis evaluates in monetary terms the potential benefits of improved mosquito control programs and attempts to compare them with various cost categories associated with the mosquito problem from both a citizens' and an experts' point of view. The empirical findings form a basis for a cost-benefit evaluation of the current prevention programs and the design of improved mosquito management plans, as well as for the suggestion of policy proposals based on various future scenarios related to the spread of invasive mosquito species and related epidemics.