



EUROPEAN COMMISSION

DG HUMANITARIAN AID AND CIVIL PROTECTION - ECHO

PREVENTION PROJECTS IN CIVIL PROTECTION AND MARINE POLLUTION

**Integrating Cost Benefit Analysis in the
Development of Standards for Flood Protection
& Safety – FLOOD CBA#2 Project**



SIGMA CONSULTANTS Ltd. - Thessaloniki, Greece

Kick-Off Meeting Thessaloniki, 01/03/2016

Presentation: Dr. Karagiannidis Lefteris, SIGMA Consultants (SIGMA), Greece

Project Identity

Coordinating Beneficiary:

SIGMA Consultants Ltd, Thessaloniki, Greece

Beneficiaries:

1. **Middlesex University Higher Education Corporation, Flood Hazard Research Centre, London, England**
2. **Universidad Pablo de Olavide, Seville, Spain**
3. **New University of Lisbon, Research Centre for Geography and Regional Planning, Lisbon, Portugal**
4. **Region of East Macedonia and Thrace, Komotini, Greece**
5. **Agencia de Media Ambiente y Agua de Andalucia, Seville, Spain**
6. **Municipality of Amandora, Amandora, Portugal**

Starting date: 01-01-2016 / **Ending date:** 31-12-2017

Total Budget: 795,000€ / **EC contribution:** 596,250€ (75%)

Area of Activity

Action-oriented project focusing on “risk-proofing” of public and private **Flood Management** investments and development and testing of economic tools - **Cost Benefit Analysis** - and methodologies for tracking of resilient investments.

FLOOD CBA#2 project will capitalise the experience and deliverables gained from past **FLOOD CBA** project - Knowledge Platform on Cost-Benefit Analysis (CBA)

FLOOD CBA#2 project will integrate CBA into the decision making process for selecting **the appropriate protection standards in flood prone areas** – key factor in flood management plans.

- ✓ Provision of a common state of the art guidance, data sources and support structures for the development of protection standards.
- ✓ Implementation of real case studies on how to evaluate alternatives of standards based on Cost Benefit Analysis.

Why the project is necessary

Flood Management Directive asks for:

- **Flood risk management plans** to take into account relevant aspects such as costs and benefits (soil and water management, spatial planning, land use, nature conservation, navigation and port infrastructure)
- **Cost-benefit analysis can be used** to assess measures with **transnational effects** (shared river basins or sub-basins)

EU member states present a diversity of methods regarding the development of flood protection standards ranging from fixed design standards to economics-based approaches, or even to investments based on local imperatives often at the expense of efficiency.

EU policy makers are seeking a more integrated approach taking into account outcomes of cost-benefit analysis.

There is not a common methodology to provide answers to the questions “**what is an appropriate protection standard ?**” and “**how can we arrive to it ?**”

Standards of Flood Protection & Safety

Some interesting questions:

1. What are the flood protection and safety (life = individual and societal ?) standards ??
2. How do we define them ??
3. Are there flood protection and safety standards in all participating and EU countries ??
4. What is the situation with transboundary flood risk management plans ??

Short Description (1)

A EU transnational cooperation that will:

- Provide an **overview and detail on existing standards** applied for flood protection and safety and the methodologies which are implemented for the justification of the related flood management investments – **exploitation of FLOOD CBA results**.
- **Involve directly beneficiaries and stakeholders** into a consultation process for the analysis of the adopted so far methodologies and tools and then for the assessment of the new proposed project's products and structures.
- Develop **Guidelines** on the integration of appraisal methods in the development of Standards for Flood Protection and Safety.
- Demonstrate **Cost-Benefit Analysis (CBA) as a tool to enable decision makers** to identify those flood protection standards which represent “best value for money.
- Develop the **Flood CBA#2 portal** integrating a **Knowledge Toolkit** that will incorporate all relative information and in-depth knowledge sources.

Short Description (2)

A EU transnational cooperation that will:

- Establish the **Flood CBA#2 Forum** which will be responsible for the provision of future coordination and technical support actions for new contacts and collaborations
- **Implement three CBA case studies** in selected areas of concern in different EU countries.
- Organise and conduct **three training seminars** addressed to key stakeholders.
- Establish a **Helpline Centre for consultation and technical support** to interested parties.
- Plan and implement an exploitation strategy that will be laid down in the **Flood CBA#2 Capitalization Plan**. An **Exploitation Agreement** will be set up in order to facilitate and oversee project's exploitation activities.

FLOOD CBA#2 Tasks

Flood CBA#2 project's activities will be implemented within the framework of the following 5 Tasks:

- 1. Task Management and Reporting to European Commission /**
Implementation from 01-01-2016 till 31-12-2017
- 2. Building the Stakeholders' Capacity**
Implementation from 01-02-2016 till 31-12-2017
- 3. Development of the FLOOD CBA#2 Knowledge Toolkit and Guidelines**
Implementation from 01-08-2016 till 31-01-2017
- 4. Implementation of Case Studies**
Implementation from 01-02-2017 till 31-10-2017
- 5. Information, Dissemination and Capitalization Actions**
Implementation from 01-01-2016 till 31-12-2017

FLOOD CBA#2 Deliverables and Deadlines (1)

TASK A

Deliverable	Deadline
Project Work Plan	31/01/2016
Project's organizational structure	15/02/2016
Project Monitoring and Evaluation System	28/02/2016
Progress report 1 (8 months' period)	31/10/2016
Progress report 2 (16 months' period)	30/06/2017
Final report (24 months' period)	28/02/2018
1 st Coordination meeting	31/01/2016
2 nd Coordination meeting	30/06/2016
3 rd Coordination meeting	31/01/2017
4 th Coordination meeting	30/06/2017
Final Coordination meeting	15/12/2017
Quality Handbook	31/03/2016
Interim Quality Report	31/12/2016
Final Quality Report	31/12/2017

TASK B

Deliverable	Deadline
Questionnaire for the collection of the background info	31/03/2016
Consultation Plan	30/04/2016
Stakeholders' Questionnaire for the consultation process	30/04/2016
Report on the views of the end users' and stakeholders'	31/07/2016
Information Exchange Network – List of members	31/12/2017

TASK C

Deliverable	Deadline
Common Framework of Standards for Flood Protection and Safety	30/09/2016
Guidelines for the development of Standards for Flood Protection and Safety (English, Greek, Spanish, Portuguese)	31/01/2017
FLOOD CBA#2 Knowledge Toolkit	31/01/2017

FLOOD CBA#2 Deliverables and Deadlines (2)

TASK D

Deliverable	Deadline
One (1) demonstration project in the UK	31/03/2017
Three (3) Case Studies in Greece, Spain and Portugal	30/06/2017
Training material (English, Greek, Spanish, Portuguese)	31/07/2017
Three (3) Training seminars in Greece, Spain and Portugal	31/10/2017
FLOOD CBA#2 Helpline Centre	30/06/2017
Evaluation and Improvements Report	30/11/2017

TASK E

Deliverable	Deadline
Communication and Dissemination Handbook	28/02/2016
FLOOD CBA#2 Web Site	31/03/2016
Four (4) Informative workshops	30/06/2017
Informative Leaflets (final version)	30/11/2017
Book of Guidelines	30/11/2017
Articles in national and international press	31/12/2017
e-Newsletters (at least 4)	31/12/2017
Press releases	31/12/2017
Multimedia videos (6) and multimedia tutorial (1)	31/08/2017
Booklet of the project achievements	30/11/2017
FLOOD CBA#2 Final conference	15/12/2017
FLOOD CBA#2 Capitalisation Plan	30/11/2017
FLOOD CBA#2 Portal	30/11/2017
FLOOD CBA#2 Forum	30/11/2017
FLOOD CBA#2 Exploitation Agreement	31/12/2017
Layman's Report	31/12/2017

FLOOD CBA#2 Major Events

Tentative date	Place	Event
20/01/2016	Brussels, Belgium	2015 Selected Projects Kick-off Meeting
28/02/2016	Thessaloniki, Greece	1 st Coordination meeting
30/06/2016	Oxford, England	2 nd Coordination meeting
31/01/2017	Seville, Spain	3 rd Coordination meeting
31/03/2017	England	One (1) demonstration project
30/06/2017	Lisbon, Portugal	4 th Coordination meeting
30/06/2017	Greece, Spain, Portugal	Three (3) Case Studies
30/06/2017	England, Greece, Spain, Portugal	Four (4) Informative workshops
31/10/2017	Greece, Spain, Portugal	Three (3) Training seminars
13/12/2017	Komotini, Greece	Final Coordination meeting
15/12/2017	Komotini, Greece	Final conference

FLOOD CBA#2 Follow-up Activities

- ✓ Development of a **Capitalization Plan** for the designation of the exploitation strategy and signing of an Exploitation Agreement for the facilitation and over-seeing of the foreseen exploitation activities.
- ✓ Continuous **enlargement of FLOOD CBA#2 Information Exchange Network.**
- ✓ **Operation of the of FLOOD CBA#2 website** for at least 5 years after the end of the project.
- ✓ **Establishment of the of FLOOD CBA#2 Forum** which will be responsible for new collaborations, participation and/or coordination of new projects and provision of technical support and know how experience.
- ✓ **Operation of the FLOOD CBA#2 Portal** that will certify the continuous interactive communication of project partners with existing and new stakeholders, networks and further dissemination of project's results.
- ✓ Participation of project partners in **other networks** and presentation of project's results and outcomes during **other international events.**

***Thank you all for
your attention and active participation
in Flood CBA#2 project***