

ECOSHAZ

ECONOMICS OF PREVENTION MEASURES AGAINST COASTAL EROSION

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Project Identity

Coordinating Beneficiary:

SIGMA Consultants Ltd (GR)

Associated Beneficiaries:

1. Universidad Pablo de Olavide, Spain
2. Middlesex University Higher Education Corporation, Flood Hazard Research Centre, UK
3. Maritime Institute in Gdansk, Poland
4. Department of Economic Theory at University of Santiago de Compostela, Spain
5. Università degli Studi di Catania, Italy

Starting date: 01-01-2015 / **Ending date:** 31-12-2016

Total Budget: 575,143€ / **EC contribution:** 431,357€ (75%)

Objective

*ECOSHAZ project aims to establish a sustainable knowledge framework addressing the **costs and benefits** of prevention and response to coastal hazards resulting from hydro-meteorological events (flooding, shoreline erosion, storm surges, sea level rise) and oil spill accidents.*



Background and Need

Coastal hazards are a major concern for local population and authorities since the interaction of coastal processes with human activities and structures can adversely affect the economy, health, well being and safety of people and communities.

An effective hazard mitigation planning requires the cost-benefit assessment of the various risk prevention measures correlated to the costs for response and rehabilitation (SEC/2010/1626, COM/ 2011/934 etc).

Notwithstanding the considerable progress that has been made over the past few decades in the fields of hazards' analysis and modelling, successful delivery of Cost/Benefit (C/B) assessment still remains very challenging.

Background and Need

- The considerable diversity of methodological approaches and terminology in use complicates the deduction of robust and comparable C/B figures.
- Besides the methodological differences, the lack of reliable publicly available cost assessment data is a major obstacle for process development.
- Existing cost databases are rather scarce, containing usually heterogeneous data or figures defined at an aggregate level.
- Many parameters related to the coastal hazards' impacts are hardly reflected resulting in considerable uncertainties during the evaluation process of the appropriate mitigation measures.

Project Tasks

ECOSHAZ project intends to overcome the aforementioned limitations and weaknesses by i) reviewing and analyzing the available frameworks, methodologies and tools ii) providing state of the art guidance as well as necessary data sources and support structures for the economic assessment of coastal risk prevention measures iii) validating the applicability of the developed materials.

The Project will be implemented in the framework of the following Tasks.

- A. Task Management and Reporting to the European Commission**
- B. Building the Stakeholders' Capacity**
- C. Development of ECOSHAZ Knowledge Infrastructure and Tools**
- D. Implementation of Pilot Activities**
- E. Information, Dissemination and Capitalization Actions**

Main deliverables and deadlines (1)

Task A

31/01/2015	Project Work Plan
15/02/2015	Project's organizational structure
28/02/2015	Project Monitoring and Evaluation System
31/08/2015	Progress report 1 (8 months' period)
30/04/2016	Progress report 2 (16 months' period)
31/12/2016	Final report (24 months' period)
31/03/2015	Quality Handbook
31/12/2015	Interim Quality Report
31/12/2016	Final Quality Report

Task B

31/7/2015	Information Exchange Network – List of members
31/3/2015	Consultation Plan
30/4/2015	Stakeholders' Questionnaire for the consultation process
31/7/2015	Report on the end users' and stakeholders' views and needs

Task C

31/10/2015	Common Characterization framework for Coastal Risk Management CBA and MCA features
31/12/2015	ECOSHAZ Knowledge Toolkit
31/03/2016	Guidelines on the implementation of Cost Benefit Analysis of coastal risk management prevention measures against natural hazards
31/05/2016	Guidelines on the implementation of Cost Benefit Analysis of coastal risk management prevention measures against oil spill hazards

Task D

31/07/2016	Training material
30/09/2016	6 Training seminars–List of trainees, Photos, Seminar work program
31/07/2016	On line questionnaire on the operation of the Knowledge Toolkit
31/08/2016	ECOSHAZ Helpline Centre
30/11/2016	Report on the improvements of ECOSHAZ Knowledge Toolkit

Main deliverables and deadlines (2)

Task E

28/02/2015	Communication and Dissemination Handbook	31/12/2016	e-Newsletters
31/03/2015	Project web site, www.ecoshaz.eu	31/12/2016	Press releases
31/08/2015	Books of Guidelines	31/12/2016	Booklet of the project achievements
30/09/2016	Informative workshops	31/12/2016	Cooperation Memorandum
30/09/2016	Informative Leaflets in Eng, Gr, Sp, Pl, It.	31/12/2016	ECOSHAZ Portal
31/10/2016	Capitalisation Plan	31/12/2016	ECOSHAZ Forum
31/12/2016	Articles in national and international press	31/12/2016	Layman's Report

Major events

17/02/2015	1 st Coordination Meeting in Thessaloniki
05/ 2015	2 nd Coordination Meeting in Seville and stakeholders' workshop
09/ 2015	3 rd Coordination Meeting in Bucharest and stakeholders' workshop
01/ 2016	4 th Coordination Meeting in Santiago de Compostela and stakeholders' workshop
05/ 2016	5 th Coordination Meeting in Gdansk and stakeholders' workshop
09/ 2016	6 th Coordination Meeting in Catania and stakeholders' workshop
09/ 2016	Six training seminars, one in each participating country
12/ 2016	Final conference and final Coordination Meeting in Thessaloniki

Follow-up Activities

- ✓ Development of a Capitalization Plan for the definition of the exploitation strategy
- ✓ Participation of the project partners in other networks and international events
- ✓ Set up of Cooperation Memorandum among the members of ECOSHAZ partnership in order to facilitate and oversee the exploitation activities
- ✓ Maintenance of the ECOSHAZ website for at least 5 years after the end of the project
- ✓ Maintenance and enrichment of the knowledge base with updated information
- ✓ Operation of the ECOSHAZ Portal that will provide search and navigation functionalities to information sourced by the knowledge base and will certify the interactive communication of project partners with existing and new Stakeholders
- ✓ Establishment of the ECOSHAZ Sustainability Forum that will pursue new collaborations, coordinate new projects and provide technical support and know how experience