
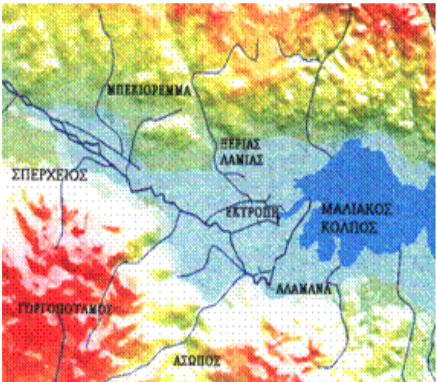


| Ref no: | Project title | | Flood Management Of Sperhios River: Alternative Strategies | | | | | |
|--|---------------|-----------------------------|--|----------------------|----------------------------------|--|-------------------|-----------------------------|
|  | Country | Overall project value (EUR) | Proportion carried out by candidate (%) | No of staff provided | Name of client | Origin of funding | Dates (start/end) | Name of partner(s) [if any] |
| | Greece | 1,000,000 | 60% | 10 | Prefecture of Continental Greece | EC /Life Progr 92/Gr/004 DG (XI) | 1994 - 1998 | NTUA PbS, Consultant (D) |
| Detailed Description of the Project | | | | | | Type of Services Provided | | |
|  <p>The Sperhios river basin with an area of 1907 km² faces serious flooding problems. Sperhios, with a length of 82,7km, originates from Timfristos mountain and flows into the Maliakos Gulf. The present study examines the application of different constructive scenarios for the flood rooting of the principal rivers of the area. To further this objective, the mathematical model MIKE 11 applied in order to simulate 1-D flows, using the full scheme of equations St-Venant. In favour of the modelling process the hydrographic network includes the following rivers: Sperhios, Ektropi, Alamana, Asopo, Gorgopotamo.</p> <p>The study evaluated and compared both a hydraulic and environmental level constructive solutions, presenting valuable conclusions concerning the integrated management of the region.</p> <p>EPSILON was in charge of: (i) the management of the project, (ii) the field sampling and satellite technologies and procedures, (iii) the development of the database and of the GIS, (iv) the production of the maps, (v) Hydrological data analysis and hydraulic simulation (vi) the dissemination of the information in Greece, (vii) the coordination with the European Commission, (viii) production of information material for decision makers related to the legal delineation of the areas to be assumed by the Greek government.</p> <p>Decision Support System for Water Resources, Honduras (2001-2002) Installation of a decision support system for integrated water resources management. The system is based on the MIKE BASIN water use simulation program for balanced management of resources and demands in the heavily exploited Cholueteca and Nacaome basins.</p> | | | | | | <p><u>Services-Deliverables</u></p> <ul style="list-style-type: none"> • Integrated management of the region. • Modeling • Hydraulic and environmental level constructive solutions • a set of four tools (guideline, model, report and advisor tool) • Coupling between the overland flow model and the flood river models • Hydrological data analysis • Conductance of training • Drafting of a Regulatory Plan • Development of advanced technologies and transfer to the GIS system • Conductance of a Dissemination programme <p><u>Key Words</u> River basin, Sperhios, Maliakos Gulf, scenarios, flood rooting, modelling, MIKE 11, environment, integrated management, mapping, hydrological data, hydraulic simulation, dissemination, decision makers</p> <p><u>Reference</u> D. Kallidromitou & M. Bonazountas</p> | | |

EPSILON International, SA | Monemvasias 27, 15125 Marousi, Greece | T:+30-210-6898610 central@epsilon.gr www.epsilon.gr