



Project proposal

Project Title: Availability and provisioning of the resource water.

Project Acronym: WAS – **Water Availability and supply**

Priority Axis 2: Protection and improvement of the environment

AoI 2.1 Improve integrated water management and flood risk prevention

Project Duration: 36 months

Short Project Description: Principal objective of the project is the propose of a methodology for the public Administration for an integrated evaluation of the water resource and to allow a balanced use to regional staircase of it.

The methodology, based on more levels of knowledge, foresee a first phase regarding the census of the water requirement on the base of existing data and implementation on GIS, a second phase regarding analysis of the effects of the risks antropiches and natural on the water resource and on the water resource general and the individualization of the actions of guardianship and safeguard to be proposed to the attention of the institutions, an experimental phase of tests and measurements of the water resource in relationship to natural dynamics and finally the synthesis through the planning of the water resource in terms of distribution among the various sectors (agriculture, drinkable use,...) and inside every sector an analysis of the systems of distribution and harvest of the waters. The project foresees besides an analysis and a search on the formalities of harvest and distribution of the waters in the past and on the classification and rediscovery of the historical manufactured articles and the systems that can contribute to the optimization to the use of the water resource.

Main Objectives: To promote the retraining, the guardianship and the exploitation of the environment as well as the energetic efficiency with the purpose to bait processes of growth and sustainable development; to strengthen the guardianship of the environment, with the purpose to improve the competitiveness of the territory and the quality of the life of the local population, through the prevention of the risks of pollution, disarrangement and the mitigation of the impacts produced following the polluting issues from the productive system.

Possible integrative elements on the admissibility and the priority of the proposal of project:

- Census of the water requirement on the existing data base and of measurements in site;
- Implementation of the data on a GIS of regional level;

- Search of the historical systems of harvest and distribution of the waters;
- Debugging of systems of management and distribution of the water resource for civil and agricultural uses;
- Analysis and evaluations of the effects of the actions of the natural events, particularly the seismic actions on the water resource;
- Experimental tests of course of sources;
- Actions of prevention e/o mitigation of the risk for water resource in the respect of the singleness of the local characteristics;
- Operational indications for the optimization of the provisioning and exploitation of the water resources;
- Actions of specialistic popularization and diffusion to vast staircase for the promotion of one "culture of sustainable use" of the water resource.

Estimated Total Budget: 1.200.000 euro