



LIFE TRIVERS

LIFE13 ENV/ES/000341

Implementing the Water Framework Directive to temporary rivers: tools for the assessment of their ecological status

Objectives, Participants, Summary of the project, deliverables, Timetable, Overall Organization of the project and Meetings Agenda.



OBJECTIVES OF THE PROJECT

The main objective of the project is to improve the management of temporary streams and rivers (TRs), by providing the European River Basin Authorities and relevant stakeholders with an operational tested software tool (TREHS, Temporal Rivers Ecological and Hydrological Status) designed to sound implementation of the Water Framework Directive (WFD) to this kind of water bodies.

PARTICIPANTS

Coordinating Institution:

Departament d'Ecologia, Universitat de Barcelona (DEUB-UB).

Members of the consortia:

IDAEA, CSIC, Barcelona (CSIC)

Agència Catalana de l'Aigua, Barcelona (ACA)

Confederación Hidrográfica del Júcar, València (CHJ).

THE ENVIRONMENTAL PROBLEM TARGETED AND MAIN RESULTS

The environmental problem targeted is the evaluation of the Ecological Status in Temporary rivers according to the figure in the **Annex I**. The scientific issues relevant to the LIFE TRIVERS project were, for the most part, studied in the FP7 MIRAGE program. The main issue is to produce software (TREHS) that may help the Water Managers in the determination of the network of temporary rivers in its basin. Also if the temporariness is due to natural or climatic changes or to human intervention in the area, with a predictive model of the evolution of the river characteristics through time (from Permanent to an Ephemeral river) according to the climate or the human use of the water. The TREHS will allow to the managers to select the appropriate dates for sampling and the methods for determining the ecological status that make the results comparative to other river systems..

The expected results and products to deliver to the Water Managers, Stakeholders and general public are:

1. An operational software a tool for the sound diagnosis of temporary rivers ecological status designed for water managers (*Software TREHS*) (*Action B1*)
2. Collection of data (hydrological, physico-chemical and biological) to assess variability at natural and impacted sites in 25 pilot water bodies. (*Data base with ca. 500 records for each basin*) (*Action B2*)
3. Characterization of the regimes of over 100 temporary streams based on the river regime implications on aquatic life. (*Data base*) (*Actions A1 and B1*)
4. Evaluation of the relationships between variability in hydrological and physico-chemical conditions and aquatic community response in relation to the determination of ES in 25 pilot basins. (*Report for managers*) (*Actions B1 and B2*)
5. Guidelines and field protocols updated to the best available techniques for WFD implementation, including the measure of Ecological Status and the definition and methods for measuring the Hydrological Status. (*Manual of methods for managers*) (*Action B2*)

6. Dissemination of results via the web-site,(number of visitors) deliverables,(reports) scientific (papers) and technical reports (manuals) and organization of a final conference (*Proceedings*) (*Actions B1, B2 and B3*)
7. Review of approaches and methods used in Spain for the preparation of RBMPs with particular focus on temporary streams.(*Manual of methods*) (*Action B3*)
8. An application designed for Tablets and Smart phones to be used by managers and stakeholders to detect and report the pressures and impacts produced in TR. This application will also serve as a method to establish the Ecological Status in a simplified manner (*Software for the general public, TREHS.net*).(*Action B3*)

All the Deliverables of the Project are in the **Annex II** with the date to be delivered. The Project Manager will be in charge of the coordination of all the activity of the project and the delivery of the products of the project in due time. The project is not only a scientific and applied project, because one important step in the development of the project will be the participatory processes open to the stakeholders and general public to allow this people to suggest measures for conservation and/or restoration of temporary rivers.

These achievements will be made according to the actions provided in **Annex III** with the timetable of its duration and completion.

PROJECT ORGANIZATION

The diagram of the project Organization is included in the **Annex IV** of this document.

- The overall project organization is in charge of the **Coordinating Group** formed by Professor Narcis Prat (UB), Dr. Francesc Gallart (IDAEA) and the Project Manager. The CG Is the responsible of the accomplishment of the objectives of the project. The Coordination Group will meet at any time when necessary.
- A **Steering Committee** will be formed in which together with the people in the Coordinating Group, two more people were included, Dr. A. Munné (ACA) and Mr Teodoro Estrela (CHJ). The Steering Committee will be in charge of the development of the different Actions of the project and the transfer of the results to the Water Managers. The Meetings of the Steering Committee will be at the dates indicated in the **Annex V**.
- A **Dissemination team** will be formed in which together with the Steering Committee people, the UB Communication team will be incorporated, this groups will implement the actions of disseminations of the results of the project to the stakeholders and general public through the instruments already included in the project (videos, conferences , press releases etc...).
- The **Administrative Management** will be provided by the UB through the Administrative Services of the Dept. of Ecology or the University of Barcelona.

Annex 1. Environmental Problem Targeted.

Environmental Problem Targetet



