

WATERLOSS

Management of water losses in a drinking water supply system

Key data:

- Med programme
- Total budget:
1.846.788 €
- ERDF contribution:
1.436.841 €
- Duration of the project
01.06.10– 31.05.13
- Partners:
 - Aristotle University of Thessaloniki (Greece, Lead Partner)
 - Conseil Général des Pyrénées Orientales (France)
 - Water Board of Nicosia (Cyprus)
 - Regional Development Centre (Slovenia)
 - The Environmental Authority of the Barcelona Metropolitan Area (Spain)
 - Municipal Enterprise for Water Supply and Sewerage in Kozani (Greece)
 - Liri-Garigliano & Volturno Rivers Basin Authority (Italy)
 - University of Ljubljana, Faculty for Civil and Geodetic Engineering (Slovenia)
 - General Council of Hérault (France)

Axe2: Protection of the environment and promotion of a sustainable territorial development
Objective 2.1: Protection and enhancement of natural resources and heritage

Main objective

The sustainable and effective utilization of natural resources and the enhancement of water conservation.

Project description

The project will develop a methodology for control of non-revenue water in water supply systems, by implementation of the following:

- water balance in water systems using GIS-based maps;
- appropriate performance indicators;
- a decision support tool and a prioritized list of measures for controlling water losses, adapted to regional conditions.



The innovative character of WATERLOSS

- Development of Water Supply System (WSS) performance indicators based on multi-sectoral issues;
- Introduction of weighting factors for balancing the effect and the impact of each performance indicator;
- Integration of several parameters in a multi-field decisional framework with a broad scope, for the formation of an optimized ranked list of corrective actions for water loss reduction;
- Development of DSS with internal (water system) and external factors (River Basin Management-RBM)
- Validation and certification of the DSS tool by the demonstration in existing WSSs in partners' areas;
- Collaboration in different tasks of partners of various origins: research units with expert knowledge, administrative units responsible for water management issues and practitioners of WSSs.

Project Coordinator:

Dr. A.I. Zouboulis

Professor of Chemical & Environmental Technology

Department of Chemistry

Aristotle University of Thessaloniki

Tel. +30-2310-997794

e-mail: zoubouli@chem.auth.gr