THE BROADCASTING ON INTERNET OF WATER DPSIR INDICATORS. EXPERIMENT ON THE NESTOS DELTA, GREECE.

A. KARAKOS*, X. SKOULIKARIS*, J-M. MONGET ** and H. JERRENTRUP*
*Democritus University of Thrace, Greece
V.Sofias 12 – 67100 – Xanthi – GREECE
E-mail: karakos@ee.duth.gr
**Ecole Nationale Supérieure des Mines de Paris
***EPO Living Lakes, Greece

EXTENDED SUMMARY

An initial GIS data base has been assembled in 2001 covering the various parameters related to the Nestos river basin and its delta. This data set is being used for water resources modelling purposes within the frame of the multinational PROMENES initiative. The initial data gathering has produced a vast set of information which has been stored using the ArcView GIS tool.

The European Water Framework Directive (WFD) recently defined guidelines for structuring the GIS databases aimed at water resources management. It is stressing the use of "open" GIS systems and formats in order to further facilitate maintenance and reporting to the public, a needed requirement.

The present project explores the application of the DPISR concept to the publication of a "State of the Environment Report" on the Nestos delta through Internet. This concept has recently been proposed by the European Environmental Agency and is already in application for air pollution indicators broadcasting and urban environmental problems reporting. It is also used in preparatory phase in Greece both for coastal water resources (ex : the Axios river, EUROCAT project) and for land use planning (ex : the ESPON project at the Hellenic Ministry of Environment, Physical Planning and Public Works).

The PROMENES data base has been restructured using an "open" GIS approach and lessons learned on how to organize water management related datasets for the building of environmental indicators. A prototype web site is evaluated and is being tested for public broadcast under the supervision of EPO Living Lakes, an environment protection organisation operating in the Nestos delta.

Key words: Mesta, Nestos, DPSIR, ArcView, GIS, GIS database, Internet, Environment report