

Supporting river basin and coastal management in Central Greece

Implementing an integrated online monitoring, hydrological, flood forecasting and water quality management system



Improved operational efficiency

Timely data and accurate model results lead to informed decision-making



Better preparedness

Forecasting capabilities enable authorities to plan justified mitigation measures



Reduced costs

Optimised agricultural practices results in lower expenses for local farmers

Challenge

To manage and restore the Spercheios river basin and its coastal zone, the Hellenic Centre for Marine Research (HCMR) needed a holistic view of Spercheios' river basin and coastal zone.

Their obstacle was lack of access to timely and accurate data that is centrally stored and readily available. There was also a need to integrate these data to models and DSS.

Local authorities had to be better prepared for the threats of frequent flooding and poor water quality, to ultimately reduce financial losses and health risks for the local community.

Solution

Implementing our monitoring, forecasting and water quality management system meant that the client could now obtain, manage and use data more efficiently than ever before.

Solution highlights

- A sophisticated and integrated DSS that is able to manage different sources of information in an automated way
- Coupled flood and hydrological models
- An online system capable of producing accurate model forecasts, water balance reports and early warnings regarding river flooding and basin hydrology



'The DSS solution is expected to improve the operational efficiency of researchers, competent authorities and decision makers in Central Greece by providing timely and accurate information to support water management and restoration measures. In the mid- to long-term we anticipate that the system will facilitate the reduction of hydromorphologic and pollution pressures in the Spercheios river basin and Maliakos Gulf.'

Elias Dimitriou, Main Researcher
Hellenic Centre for Marine Research – Institute of Marine Biological Resources and Inland Waters



Contact: mike@dhigroup.com



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