wPRISMA

EMVIS
WATER RESOURCES & ENVIRONMENT MANAGEMENT

wPRISMA is an interactive web map application that provides information about water quality of surface water bodies in order to identify areas or water bodies that experience significant pressures from diffuse and point sources of pollution.

APPLICATIONS

- Generation of maps with anticipated concentrations of selected pollutants in surface water bodies (WB).

- Comparison of predicted pollutants' concentrations with Environmental Quality Standards (EQS) and measurements from monitoring programs.

- Explore the effect of different hydrological years and seasonal flow variations in pollutants' concentrations.

- Simulation of multiple hydrological periods and production of maps indicative of the likelihood of EQS exceedance in WBs.

- Identify the contribution of upstream areas to the predicted concentration at a specific water body.

BENEFITS

With wPRISMA you can recognize areas that experience significant pressures from selected pollutants.

With wPRISMA you can compare modelling results to established Environmental Quality Standards (EQS).

wPRISMA is a product suitable for competent authorities engaged to the implementation of the Water Framework Directive

With wPRISMA the user can identify appropriate measures for the protection of the water bodies and also establish specific water quality objectives.

wPRISMA enables the competent authorities during the design of the monitoring programme and protocol.
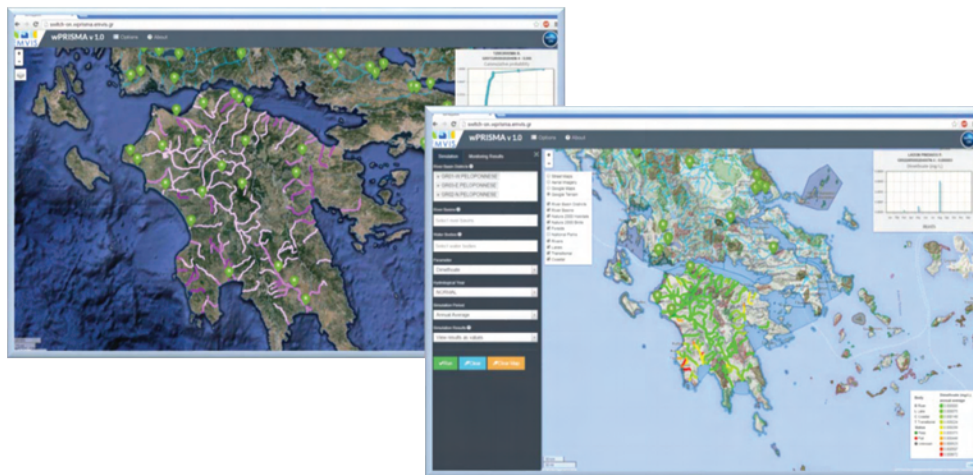
PRODUCT OVERVIEW

- wPRISMA is based on a 1-dimensional steady state water quality model for the simulation of the fate of selected heavy metals & plant protection products in inland waters.

- Pollution loads are retrieved from open data sources such as the European Pollutant Release and Transfer Register as well as from the inventory of Greek UWWTPs available from the Special Secretariat for Water.

- The quantities of plant protection products from agricultural land uses entering surface water bodies are estimated using methodologies developed by FOCUS SW and Corine Land Cover data.

- Hydrological data are obtained from E-HYPE, an open hydrological model that enables the calculation of river discharges in catchment level.

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