wPOLIS

EMVIS
WATER RESOURCES & ENVIRONMENT MANAGEMENT

wPOLIS is an interactive web map tool for calculating the temporal and spatial variation of Emission Limit Values for specific pollutants in a River Basin and also for defining exclusion zones where installation of new facilities is restricted due to water quality or other environmental criteria.

APPLICATIONS

• Calculation of the maximum Emission Limit Value for selected pollutants that could be applied to all industrial units in a given area without causing EQS exceedance.

• Explore the temporal variation of ELVs arising from the variation of river flows.

• Generation of maps with areas where installation of a new facility of specific industrial activity and capacity is restricted, due to planning limitations, environmental restrictions or other legal regulations.

• Identify suitable and unsuitable areas for allocating a new industrial unit with known pollution loads based on water quality criteria.

BENEFITS

With wPOLIS you can establish appropriate and realistic ELVs for selected pollutants on the basis of the impact of emissions to the quality of the water bodies.

With wPOLIS you can optimize allocation of new activities in order to meet the environmental objectives and protect water quality.

wPOLIS will provide a significant contribution to reach the aims of an industry in a more efficient way, during environmental permitting procedures and adoption of best practices for pollution control.

wPOLIS will aid the policy makers, the environmental agencies and the private sector to improve the quality of surface waters through strategic limitation of pressures from discharges of selected pollutants.
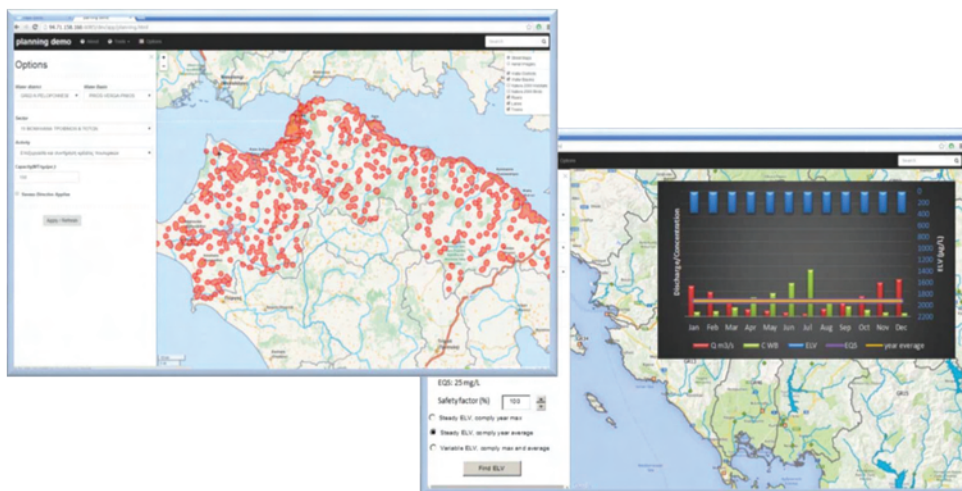
PRODUCT OVERVIEW

• wPOLIS 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.

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

21 PAPARRIGOPOULOU STREET, AGHIA PARASKEVI, ATHENS 153 43, GREECE
T.CEN: +30 210 65 28 078, +30 210 60 84 286, F: +30 210 65 28 760, E: INFO@EMVIS.GR, W: WWW.EMVIS.GR