MEDITERRANEAN ENGINEERING GROUP 2014

International Conference

27-28 November, Rome, Itally

wPRISMA and wPOLIS, two water quality management tools under the SWITCH-ON platform Apostolos Tzimas, Managing Director EMVIS Consultant Engineers







Ministero dello Sviluppo Economico





WATER







EUROPEAN COMMISSION European Research Area

SWITCH-ON is an EU FP7 Collaborative project (grant agreement 603587) under the Environment programme running from November 2013 to October 2017

SEVENTH FRAMEWORK



Goal of SWITCH-ON Value adding by re-purposing open data











14 Innovative Commercial Products and Services







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wPRISMA Open Data Hydrographic network Hydrology Hydrographic Pressures network, WB Discharges for catchments several hydrological Diffuse years (simulated with •Agriculture HYPE) Point •UWWTP products) Industries

wPRISMA

• Surface water quality model for selected priority substances (heavy metals & plant protection

• Subroutines for multiple scenario simulations for assessing the effect of uncontrolled pollution from industrial units on the water quality under various flow conditions

Interactive Web map with in situ monitoring results for selected pollutants

Web map with simulated concentrations in every Water Body for several:

- examined pollutants
- hydrological scenarios
- pollution loads scenarios



Web based representation of the areas where Environmental Quality Standards exceedance is likely to occur due to uncontrolled pollution.





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User interface



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wPRISMA: Water Quality Map

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wPRISMA: Water Quality Map



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wPOLIS: Exclusion zones from industrial activity



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wPOLIS: Emission Limit Values determination



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First product run in test mode

wPRISMA demo

wPOLIS demo











Thank you

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http://www.water-switch-on.eu/ http://www.emvis.gr



