

Project coordinator

Scuola Superiore Sant'Anna - SSSA (IT)

Consortium

- Technischen Universität Darmstadt - TUDA (DE)

- TEA Sistemi s.p.a. - TEA (IT)

- Agencia Estatal Consejo Superior de Investigaciones Cientificas - IDAEA-CSIC (ES)

- Oslandia - OSLANDIA (FR)

- United Nations Educational, Scientific and Cultural Organization - UNESCO (FR)

- Regione Toscana - RT (IT)

- METCENAS o.p.s. - Methodology Centre for Environment Assessment - METCENAS (CZ)

- Zeta Amaltea s.l. - AMALTEA (ES)

- Institut za Ekološki Inženiring - IEI (SI)

- Erciyes Universitesi - ERU (TR)

- Etaireia Axiopoiiseos Kai Diacheiriseos Tis Periousias Tou Ethnikou Metsoviou Polytechniou (LTP) - NTUA/AMDC (EL)

- Institutul National de Hidrologie si Gospodarie a Apelor - INHGA (RO)

- Tartu Ülikool - UTARTU (EE)

- Taras Shevchenko National University of Kyiv - TSNUK (UA)

- Paragon Limited - PRN (MT)

- Bremen University - Geological Survey - BUGS (DE)

- International Groundwater Resource Assessment Centre - IGRAC (NL)

- University of Applied Sciences and Arts of Southern Switzerland - IST-SUPSI (CH)

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Scuola Superiore Sant'Anna



idæa



United Nations Educational, Scientific and Cultural Organization

REGIONE TOSCANA



METCENAS
Methodology Centre for Environment Assessment

zeta
amaltea



Universität Bremen



University of Applied Sciences and Arts of Southern Switzerland

SUPSI

ict4water.eu



FREEWAT

Free and Open Source Software Tools for Water Resource Management
EU HORIZON 2020 Project



Invitation:

Lugano/Ceresio Hydrogeological Model

FOCUS GROUP KICK-OFF MEETING & APERITIVO

University of Applied Sciences and Arts of Southern Switzerland

SUPSI

www.freewat.eu



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Free and Open Source Software Tools for Water Resource Management

FREEWAT is an EU HORIZON 2020 project financed under the call 4a WATER INNOVATION: BOOSTING ITS VALUE FOR EUROPE. FREEWAT aims at promoting water resource management by simplifying the application of the Water Framework Directive and other water related regulations by means of innovative GIS integrated open source and public domain ICT simulation tools (the FREEWAT platform) in a participatory framework. The FREEWAT Consortium is constituted by universities, research organizations, SME's, governmental authorities, NGO's and international organizations from various water sectors Large stakeholders involvement guarantees results, dissemination, and exploitation.



IST-SUPSI is one of the main partners of the project and is active in all its main stages, such as: IT development, training of specialists and the development of a case study on Ticinese territory. Just in relation to this activity in the coming months we will proceed to the development of a numerical model that is capable of simulating the interactions between surface water and groundwater in the basin of Lake Lugano with the main objective of being able to quantify the transport and the spread of possible pollutants in the water resource. In the spirit of developing a model that is of interest for the region and that meets real needs, we would like to use a participatory approach to coordinate with all stakeholders.

Invitation:

IST-SUPSI cordially invites you to join us and other stakeholders for the kick-off meeting of the Focus Group on the **12th of September at 17:00** on the Campus of SUPSI Trevano. The meeting will consist of an introduction to FREEWAT, an overview on the proposed case study and numerical model of the Lugano Watershed, as well as a discussion round among all stakeholders for questions, suggestions and requests. This will be followed by an Aperitivo and further informal discussion.

Schedule:

- 17:00 – Welcome and introduction to FREEWAT
- 17:30 – Presentation of the proposed case study
- 18:00 – Informal Discussion and Aperitivo

Please let us know if you will be able to attend and send your RSVP to Massimiliano Cannata: massimiliano.cannata@supsi.ch

The FREEWAT platform is integrated as plugin into the QGIS GIS desktop and is based on groundwater and solute transport numerical models (from the MODFLOW USGS family). It will also include modules for solute transport in the unsaturated zone; water management and planning; Observations Analysis Tools (OAT); calibration, uncertainty and sensitivity analysis; management of water in agriculture; tools for groundwater quality issues; tools for the analysis, interpretation and visualization of hydrogeological data. FREEWAT will be applied to 10 case studies within the EU, 3 case studies in neighbouring countries (Switzerland, Turkey and Ukraine) and to a large trans-boundary aquifer in Africa. Case studies will address different issues on WFD, GWD and other water related Directives and also rural water management topics.