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WEISS - Water Emission Inventory planning Support System

Product Owner : VITO-Flemish Institute for Technological Research; VMM-Flemish Environment Agency

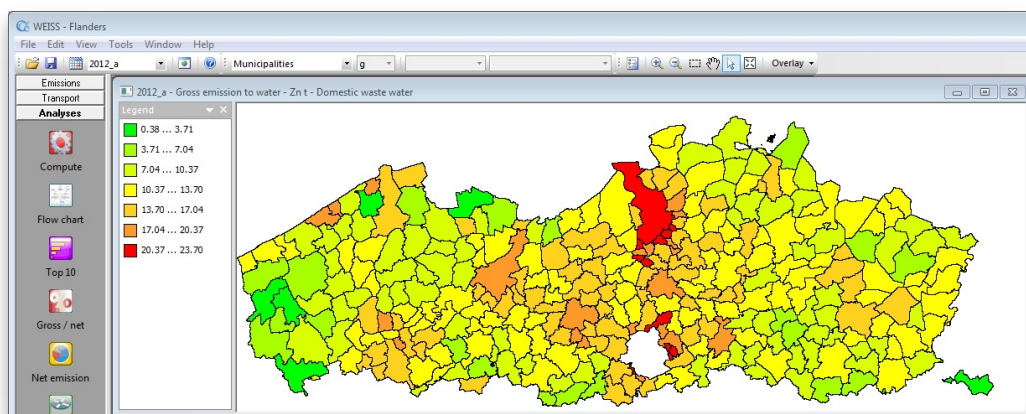
Category : Software Products

Stage of Commercial Development: commercially available

Stage of Commercial Development Info: Product fully developed and installed by various users since 2013.



WEISS is a software that incorporates both point and diffuse emission sources and essentially consists of three modules. The first module deals with the spatial distribution of the emissions. The second represents all relevant routes transporting the emissions, including direct discharges, the sewer system and runoff. The third is an analytical module. It enables consulting, analyzing and reporting the calculations for specific spatial entities in terms of maps and tables in every node of the transport route. WEISS enables to store information for various years and/or scenarios and enables yearly and inter-annual / inter-scenario computations and comparisons. Parameters can be altered and indicators can be computed to analyze the state of the water system as part of decision support exercises. Used to fulfil the mandatory reporting in the context of the Water Framework Directive, SOER, etc.



Application & Target Markets :

WEISS supports authorities in their monitoring and reporting obligations.

Competitive Advantages :

User-friendly flexible inventory, modelling and reporting tool of emissions towards the surface water. Provides detailed geographical information at every node of the pathways from the source to the surface waters. Enables to generate tables and charts with respect to the pollution at various geographical levels.

Details :

License / Copyright:	Proprietary
License Info :	Available on the basis of a user license.
Costs :	On request
Type of Software:	Data processing
Case Studies :	EU-Life+ project WEISS (2010 – 2013)
E-learning, Tutorials and Supporting Material :	Demo version, manual and training material
WFD Objectives :	Setting objectives, Selecting measures, Characterization of water bodies (including mapping), Pressures and impacts, Data processing (spatial or geographical), Monitoring and reporting, Modelling and prediction
Issue :	Ecological or chemical status, Urban areas and Other.
Issue info :	Abwasser-Infrastruktur
Relevant Water Bodies:	Rivers, Lakes, Artificial and heavily modified waterbodies and Coastal and transitional waters.
Target User Group:	Research organisation, Industry consultants, Utility, Government (and associated bodies) – policy, Government (and associated bodies) – practitioners and Funding and investment.
Type of Input requirements :	Flexible set up, grows along with data availability. Basic GIS expertise is recommended.

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Type of Output : Gross and net emissions for defined pollutants in the format of tables, graphs and maps (at different levels of aggregation)

Potential to combine this product with other products : WEISS provides the input for water quality modelling at the level of the receiving water bodies.

Supported Legacy Systems : Requires GIS data layers enabling an as accurate as possible allocation of the sources of pollution.

Supported Standards

Standard Category : ■ Processes and Models

Version : Version 1.0.1.212 Publication date 2016

Project : WEISS - The Water Emissions Inventory

Project & Promotional Material About the Product :

- Website VITO
- Website created during the Life project. Contains a demo version of the software and lots of documentation.
- Geoportal with results of the WEISS system for Flanders.
- Project documents

Organisation/Institution : Vlaamse Instelling voor Technologisch Onderzoek (VITO)

Contact Details : Product/service provider VITO: Leen Van Esch (leen.vanesch@vito.be), business developer VITO: (guy.engelen@vito.be)

Partners



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www.waterinneu.org

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