

TEMPLATE

Output factsheet: Tools

Version 1

Project index number and acronym	CE110 - PROLINE-CE
Lead partner	BMNT
Output number and title	O.T3.1 - GOWARE-CE - Transnational Guide toward an Optimal Water REgime
Responsible partner (PP name and number)	CMCC, PP13
Project website	https://www.interreg-central.eu/Content.Node/PROLINE-CE.html
Delivery date	June 2019
Summary description of the key features of the tool (developed and/or implemented)	

GOWARE represents an operative Decision Support Tool (DST) specifically designed for supporting potential end-Users and stakeholders in the identification of tailored solutions (Best Management Practices - BMPs) for the management of water related issues (e.g. protection of water quality, safeguard of water availability, and management of potential flood impacts). In its final release, the tool works on-line (as Web-tool) and off-line (as Excel-based tool). Specifically, the Web-tool is designed for supporting decision-making processes carried out on-line by a single User. On the other hand, the Excel-based version is aimed at supporting the decision processes carried out by both single and groups of Users during meeting and workshops. The off-line version is directly downloadable as Toolkit from GOWARE web-page.

In order to define the User's context and prioritizing the BMPs in terms of suitability, GOWARE implements two stages of analysis.

The first stage consists in defining the context that appropriately represents the issues that the User is facing accounting for four filters: i) Land Cover/Use; ii) Topographic Settings; iii) Adaptation Target; iv) Planning Time Horizon. The definition of these options allows filtering the BMPs and extracting the most suitable ones among the entire set included in the catalogue.

In the second stage of analysis, User can assign a relative importance between five characterization criteria in order to allow prioritizing the BMPs that passed the pre-selection in stage 1. For this purpose, GOWARE-DST is implemented with the Analytic Hierarchy Process (AHP), an analytical method that permits ranking the sub-set of BMPs, accounting for both scores provided by expert judgments on the BMPs characteristics and User-defined priorities. Furthermore, GOWARE incorporates a technique for checking the consistency of the User's judgements and it can cope with the case in which the User cannot provide her/his evaluation (missing judgement).

NUTS region(s) where the tool has been developed and/or implemented (relevant NUTS level)

GOWARE-DST was operative developed by PP13 (off-line version) and PP4 (on-line version).

The testing phase involved all the Project's participating countries.

Vienna, AT126

München, DE212

Budapest, HU101

Katowice, PL22A

Zagreb, HR041, Imotska Krajina, HR035, Izvor Ploce

Taglio di Po, IT37

Ljubljana, SI021

Expected impact and benefits of the tool for the concerned territories and target groups

GOWARE-DST was designed to support end-Users and decision-makers in the management of water related issues in Central Europe, accounting for different land use contexts. It represents a basis for the improvement of the policy guidelines and governance activities specifically devote at ensuring the sustainable use of the drinking water resources and the protection of their quality.

It is expected that the tool will contribute to the operative implementation of several EU policies (Water Framework Directive, Drinking Water Directive, Groundwater Directive), specifically defined for the achievement of a “good status” of the water resources.

Preliminary applications of GOWARE-DST highlighted that it is suitable for fitting needs and requirements of stakeholders with different background, such as hydrogeologists, ecologists, foresters, urban planners, researchers, policy as well as local water suppliers and farmers supporting them at different levels of management (operative and strategical).

Sustainability of the tool and its transferability to other territories and stakeholders

GOWARE-DST sustainability and transferability strongly depend on the level of its utilization as operative tool. Then, further activities will be aimed at promoting its capitalization, also by building synergies with other projects.

Sustainability is ensured by the web-version of the tool, hosted on the University of Ljubljana (UL) servers. Being involved for more than a decade in several EU projects, UL team will guarantee the web-tool maintenance. Internal protocols ensure tools functionality for at least 5 years, but they are usually expanded up to 10, as the tools are also part of the UL educational programs. The multi-language dimension of the web-tool will also permit reaching a larger audience.

Transferability is ensured mainly by the off-line application of the tool, which enables the full transfer and integration of its logic in other applications. Being platform-independent, it also contributes to the tool sustainability.

GOWARE-DST is described in peer-reviewed publications.

Lessons learned from the development/implementation process of the tool and added value of transnational cooperation

The operative development of GOWARE-DST has favoured a strong cooperation among the involved Project Partners (PPs). In fact, in order to achieve a shared solution concerning the design and models of analysis to be implemented in the tool, a deep consultation was conducted. At the same time, this cooperation has been enhanced by participating at dedicated meetings and remote conferences as well as by organizing activities specifically devoted to the stakeholders' engagement during the trial phase.

This positive collaboration among PPs has facilitated the on-time operative release of the proposed tool and its relative documentation. It has also allowed the development of a productive network of researchers, decision-makers, administrators and local stakeholders, leading the foundations for further transnational cooperation beyond the Project's lifetime. This will simplify the transfer of the acquired knowledge and achieved results at local, regional, national and transnational scale.

References to relevant deliverables and web-links If applicable, pictures or images to be provided as annex

PROLINE-CE WORKPACKAGE T3, ACTIVITY T3.2 REPORTS:

- D.T3.2.1 Roadmap to transnational adaptation for integrated land use
- D.T3.2.2 Transnational adaptation plan for integrated land use management

PROLINE-CE WORKPACKAGE T3, ACTIVITY T3.2 REPORTS:

- D.T3.3.1 Local application: recommendations of optimal structures for sustainable land use
- O.T3.1 GOWARE - CE Transnational guide towards an optimal water regime

GOWARE-DST web-page: <http://proline-ce.fgg.uni-lj.si/goware/>