

W T3: Policy integration and economic instruments

# Updated version of operation manual and source code of the DSS

D.T3.4.4

Version 1  
July 2020

Research co-funded by The Polish Ministry of Science and Higher Education in the frame of the programme:  
International Cofunded projects during 2017 - 2020.



## Content

1. Structure	2
2. Scope of update	2
3. Work flow	3
4. List of comments	3
5. Summary	5

## 1. Structure

Deliverable D.T3.4.4 - updated version of operation manual and source code of the DSS consists of two documents:

### **Updated version of operation manual**

Created on the basis of D.T3.4.2 - Operating manual and source code of the DSS. After the testing process raised issues were resolved or improved. The manual was updated with new descriptions of functionalities and enhanced figures in chapters:

1. How to start and install the application
- 7.2 NSWRM planner web application
9. Legal procedures for implementing NSWRM (applicable in Poland)

Updated manual is attached as an appendix to this report.

### **Updated source code of the DSS**

Produced on the basis of deliverable D.T3.4.3 - Reports from pilot action for testing the DSS. Consists of a zip file with the source code and a description of the implemented changes included in chapters 2-5 below.

## 2. Scope of update

The report describes the scope of the update of the Decision Support System (DSS). After the training course for DSS, project partners tested the Tool in six pilot catchments. During the tests, a number of errors were reported, some of which were removed on a regular basis. After the tests, the partners prepared reports describing the errors and suggestions that were analysed by the main contractor (WULS). Taking into account the obligations resulting from the project application, the available financial resources and the fact that it is an open source application and its further development will be possible on the GitLab portal, the contractor commenced to implement some of the submitted comments. This extend of those changes is described in this report.

### 3. Work flow

To allow the test process being carried out without major disruptions, it was decided to make the entire DSS application available to partners at <https://gitlab.com/framwat>. Testers were asked to fill in an online Google spreadsheet table with any issues they encounter. The tester had to write what version of the DSS they were using, at what date and time were they carrying out the tests, pilot catchment used, their email address, temporary password used, what object that was tested, describe the encountered problem, suggest any new functionalities or solutions. The goal of carrying out those tests was to increase the efficiency and functionality of the final version of the application.

A total number of 43 issues were reported within the spreadsheet. Most issues were identified in the catalogue of measures and the N(S)WRM Planner. The majority of issues concerned wrong or missing translations into national languages. Detailed information about the reported issues is included in deliverable D.T3.4.3 - Reports from pilot action for testing the DSS. After implementing changes, a new version of the application was published.

Application tests were conducted in the following stages:

- publication of the new version at <http://levis-framwat.sggw.pl>,
- tests carried out by WULS-SGGW employees and the associated partner Regional Water Board Warsaw,
- tests carried out by the remaining project partners,
- implementation of changes by the IT team.

### 4. List of comments

Table 1 includes a list of reported issues and ideas. Testing results were forwarded for implementation to the WULS IT specialist who commented on the possibility of solving or improving the issue brought to his attention.

Tab. 1 Reported issues

Pilot Catchment	Tested object	Issue description	Updated
Nagykunsági	Catalogue of Measures	translation problem	Yes
Blh	Catalogue of Measures	translation	Yes
Kamniška Bistrica	Edu. Databases	Link not working (regardless of language)	Yes
Kamniška Bistrica	Planner manage layers	Base layer multiplication	Yes
Kamniška Bistrica	Planner manage layers	Layers don't shut down	Yes
Nagykunsági	Catalogue of Measures	translation correction need	Yes
Nagykunsági	Catalogue of Measures	translation correction need	Yes
Nagykunsági	Catalogue of Measures	translation correction need	Yes

Nagykunsági	Planner generate report	translation of the report	Partly
Nagykunsági	Planner generate report	Tab. 3. explanation of precipitation data, annual is average of monthly data	Yes
Blh	Edu. Databases	Links not working	No
Blh	Tools - N(S)WRM planner	wrong name of catchment	Yes
Blh	Planner generate report	needs some fixing	Yes
Blh	Tools - Dynamic method of assessing the effectiveness	link doesn't work	Yes
Blh	Help	lower bar issue	Yes
Blh	Home	Recommendation: add some pictures to make the site look more appealing	Partly
Blh	Tools - legal procedures for implementing NSWRM	correction of translation needed	not
Blh	main menu	translation	Yes
Blh	Tools - AHP method	translation	No
Blh	Planner Find information	doesn't work	Yes
Kamniška Bistrica	Planner generate report	Translation	Yes
Blh	Planner manage layers	shows double Manage layers	Yes
Blh	Add WMS layer	doesn't work	No
Slana	Planner Add new measurement	after adding 3 polygons the edition is suspended, i.e. the graphic rises but the form window does not pop up and after the refresh the values in the form are lost	Yes
Blh	Planner generate report	translation	Partly
Slana	Planner Find information	"find information button" is not working, tested by click on selected reservoir, different layers. Or?	Yes
Slana	Planner Login	How to log out? There is no "log out button"? Or?	No
Slana	Planner manage layers	layers are shown in left side panel twice, when "clicking on one of them", both are marked, although layer seems to be shown in the portal only once. Will send prints "errors_1_layers-twice.jpg".	Yes
Slana	Planner manage layers	some layers have similar "violet colour" (e.g. TWI and Protected surface), this is little bit misleading.	Yes
Slana	Upper black menu	not translated to Slovak. Only Catalogue of	Yes

		measures is in Slovak.	
Slana	Planner Add new measurement	translation of some measures is wrong ("odvodňovací priestor", "hydromorfológiu").	Yes
Slana	Planner generate report	not translated to Slovak at all.	Partly
Slana	Planner generate report	for 2 measures with switched-on few layers the report generation was OK. For 6 measures with switched-off layers the report was not generated at all.	Yes
Slana	Footer	translation	Yes
Slana	Footer	translation	Yes
Kamienna	Planner generate report	suspension (not generating), after adding a new one to existing ones and deleting the first object on the list. After refresh web page generation of report works correct.	Yes
Kamienna	Planner generate report	Annual sum of precipitation is wrong	Yes
Kamienna	Planner generate report	Tab.6 Risk investment - The rows are repeated twice: once from the surface, and once without surface.	Yes
Kamienna	Planner generate report	Tab.5 Sum of run off per month or year in mm - In annual, the sum of monthly values should be	Yes
Kamienna	Planner generate report	Tab. 8. Land cover occupation; Rename column Value to Area [m2] and remove Unit column	Yes
Kamienna	Upper black menu	Add Guideline to menu between Education and Catalog of Measure	Yes
Kamienna	Planner generate report	Add link to pdf of Report	Yes
Kamienna	Map settings/Catchment	Add new Catchments: "All catchment"	Partly

## 5. Summary

With the available project funds and requirements the DSS was updated. Some of the ideas were not implemented due to the fact that they exceeded the project requirements, available financial resources and time expenditure. The source code for the tools developed during the FramWat project is publicly available on the GitLab platform. It can be further developed and modified by the users. Currently the most important functions work correctly and others can be developed according to up-to-date needs.