



OUTPUT FACT SHEET

Pilot action (Kamniška Bistrica - SI)

Version 2

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| Project index number and acronym | CE983 FramWat |
| Lead partner | WULS |
| Output number and title | OT3.5 - Action plans for implementing N(S)WRM into the RBMPs |
| Investment number and title (if applicable) | / |
| Responsible partner (PP name and number) | 8. UL |
| Project website | https://www.interreg-central.eu/Content.Node/FramWat.html |
| Delivery date | 06.2020 |

Summary description of the pilot action (including investment, if applicable) explaining its experimental nature and demonstration character

Kamniška Bistrica Action plan provides steps, timeline, financial resources, and responsible actors for integrating N(S)WRMs into river basin management plans.

- Action Plan is an implementation document
- Action Plan includes a monitoring procedure of its implementation
- It has support from Slovenian water agency, which is responsible institution for river management

Structure and content of Kamniška Bistrica Action Plan:

- 1) Introduction - description of the catchment, main problems,
- 2) Selection of the measures - describing the process of N(S)WRMs selection for the catchment (modelling results, effectiveness, stakeholder input),
- 3) Final cumulative efficiency - describing analyzed results based on cumulative approach for each N(S)WRM
- 4) Implementation framework - describing combination of measures that responds to management issues of Kamniška Bistrica and the planning process (RBMP, FRM biodiversity protection, climate change adaptation, urban planning, environmental protectionj)
- 5) Monitoring - describing the monitoring of the implementation of the Action Plan and the measures
- 6) Recommendations - further implementation of NSWRM nationwide, their modeling

Action Plan was developed based on the Concept Plan for Kamniška Bistrica Pilot Catchment. It summarizes the work carried out in the pilot area during the project development, the results obtained and formulates a proposal for the range of possible developments in the area that are considerable in terms of drought, flood and water quality. Action plan for the pilot catchment provides the compilation of the catchments modeling results and presents the effectiveness of a selected set of NSWRM in the catchment. The overall aim of the Action Plan is to support a sustainable water management in the catchment.

NUTS region(s) concerned by the pilot action (relevant NUTS level)

Slovenian pilot catchment of Kamniška Bistrica has the NUTS code SI041 and belongs to NUTS level 3 called Osrednjeslovenska. Catchment size is 539 km². It is located in the northern part of Slovenia and represents almost 3% of its overall area.

Investment costs (EUR), if applicable

not applicable

Expected impact and benefits of the pilot action for the concerned territory and target groups and leverage of additional funds (if applicable)

Kamniška Bistrica action plan has received official support from the Slovenian Water Agency. Final conclusions, approaches and results regarding NSWRMs are expected to be integrated/included into the preparation of 3rd cycle RBMP that Slovenia steps into force in 2022 for five years, that is from 2022-2027.

Kamniška Bistrica action plan has revealed a need for implementation of some further actions which were proposed and are expected to be taken:

- Coordination of NWRM implementation activities among multiple stakeholders (i.e., water agency, municipalities, and different sectors) is missing. The establishment of a water board for Kamniška Bistrica could be useful to overcome these issues.
- Continuous improvement of stakeholder's technical knowledge (education) about NWRM alternatives/suggestions on a river basin;
- FramWat carried out the analysis and modelling of NWRM on the entire river basin. In the next phase, narrow technical problems should be addressed including the elaboration of feasibility studies (incl. assessment of consequences of not taking action), project and investment documentation;
- Governing stakeholders should program financial resources for identified priorities and needs on a local level (crucial collaboration among Water agency and municipalities)

Sustainability of the pilot action results and transferability to other territories and stakeholders.

FramWat demonstrated that NSWRMs could contribute to the flood safety, even in small amounts, which for Kamniška Bistrica, having an exclusively Alpine character, is quite expected. However, there are several other catchments in Slovenia that can benefit from the developed approach.

Different pilot actions have shown that dynamic approach was primarily needed in some pilot catchments (especially Kamniška Bistrica catchment) due to their specifics. Hence, proposal was made that particularly a dynamic approach towards NSWRM modelling and implementation can be a useful starting point for every Slovenian water entity/municipality having an issue with floods or/and droughts.

All results and outputs regarding Kamniška Bistrica pilot action will be maintained by PP8 UL FGG. PP8 will also work on any further development of the hydrological and hydraulic models.

Lessons learned and added value of transnational cooperation of the pilot action implementation (including investment, if applicable)

In each country, the Action Plan has been developed on the basis of local guidelines/rights/preferences, which means that it has a different format and focuses attention on different elements, therefore the analysis of these plans allows to check the possibilities of operating in different regions/countries. Thanks to the international cooperation, it is possible to compare and evaluate the possibilities and problems of the possible implementation of measures (NSWRMs) included in the action plans. For example, it is possible to learn about the differences that appear in the N(S)WRMs legislation and financing sector in individual countries. In addition, action plans highlight water management problems in different regions and show the possibilities of monitoring measures in different areas.

Contribution to/ compliance with:

- relevant regulatory requirements
- sustainable development - environmental effects. In case of risk of negative effects, mitigation measures introduced
- horizontal principles such as equal opportunities and non-discrimination

Kamniška Bistrica action plan considers the needs and possibilities of the natural environment for water retention. This will allow facilitating sustainable development. In addition, the activities planned on its basis will help in a seminatural way to avoid negative effects such as drought, flooding, water pollution and the increase of sediment transport. Selection of measures was based on reviews of the two key strategic documents: river basin management plan (Danube RBMP 2016-2021) and flood risk management plan (FRMP 2017-2021). Already planned measures were taken as a base in the planning process of NWRM.

Potential legal restrictions are associated mainly with environmental protection, thus special protection areas in the Kamniška Bistrica river basin have been reviewed and considered during the whole process from preparation through analyzes and to development of action plan.

References to relevant deliverables (e.g. pilot action report, studies), investment factsheet and web-links

If applicable, additional documentation, pictures or images to be provided as annex

Relevant deliverables regarding Kamniška Bistrica pilot area (Slovenia) are:

- D.T2.2.2. Pilot action for Static tools_Slovenia
- D.T2.3.1. Developing the concept plan for NSWRM in Kamniška Bistrica river basin
- D.T2.4.1 Reports from testing the dynamic models to assess cumulative effect of N(S)WRM - Kamniška Bistrica UL
- D.T2.5.1 NationalTrainingsOnEffectAssess_Slovenia
- D.T3.5.2 Report National Policy Dialogue_Slovenia
- D.T3.5.5 - Action plan for Kamniška Bistrica (SL)

Kamniška Bistrica action plan for implementing N(S)WRM into the RBMPs is available on the website:

[https://www.interreg-central.eu/Content.Node/OT3.5---Action-plans-for-implementing-N\(S\)WRM-into-the-RB.html](https://www.interreg-central.eu/Content.Node/OT3.5---Action-plans-for-implementing-N(S)WRM-into-the-RB.html)