

## Output Quality Report

<b>Output title: Inventory of DRB's sediment monitoring activity</b>	
<b>Type of output:</b>	<input type="checkbox"/> Documented learning interaction <input checked="" type="checkbox"/> Strategy/ Action Plan <input type="checkbox"/> Tool <input type="checkbox"/> Pilot action
<b>Contribution to PO indicator:</b>	<b>P09 Inventory of DRB's sediment monitoring activity</b>

<b>Summary of the output (max. 1500 characters)</b>
<p>Contaminated sediment is an existing problem in the Danube River Basin (DRB), however countries do not have appropriate information and standardized method to perform transnational comparable sediment monitoring studies. The present Output Report is focused on the peculiarities on the river sediments in the Danube River Basin. International and national legislation frameworks, inventory of sampling, laboratory and evaluation methodologies (experiences, practices, technical procedures) related to sediment monitoring activity are expansively summarized based on commonly agreed questionnaires by countries participating in the SIMONA project. The Report ensure transparency and comparability of information among countries. All this information is presented in various expressive tables, graphs and maps, moreover summarized in the last chapter at countries level.</p> <p>The Report has two main objectives, that adequately provide appropriate information for subsequent work packages. The first objective is description of the current status of and common needs for sediment quality monitoring in DRB countries by compiling an inventory of good practices, national protocols, methods and databases related to sediment quality monitoring; and the second is verification and demonstration of integration and added value of surface water sediment quality monitoring by two pilot actions for improving transnational water management.</p>
<b>Added value (max. 1500 characters)</b>

For strategies and tools:

The project collected available information on water-sediment-biota monitoring methods and laboratory technologies for identifying and quantifying pollutants, hazardous substances in these matrices. Part II of the Report demonstrates projects related to sediment monitoring carried out since 1998, moreover provides data or metadata availability and lists of past or current economic pollutants referring to direct effect on the quality of sediment in Danube River. Based on the information received from the project partner countries the "Inventory of DRB's sediment monitoring activity" is compiled. Summarization of data showed significant differences and problems in the monitoring methods among partner countries. This Report is the first one in the Danube Basin that provides comprehensive and comparable information and summary on legislation frameworks, monitoring and laboratory methodologies in DRB countries. A benefit of the Report is the accentuation of existing problems and deficiency in project partner countries. The Report gives a completed dataset to the subsequent work packages that based on this information can create a harmonized sampling, laboratory and evaluation protocol for hazardous substances and can develop finally the SIMONA-tool.

**Applicability and replicability (max. 1500 characters)**

The Report has been compiled by experts of Geological Institute of Romania with contribution of all project partner countries. The Report will be distributed among participating countries. Although not all of them are responsible for the development of sampling and laboratory protocols (subsequent work package WP4), all of them are interested in the available international information on sediment management. The institution (Croatian Geological Survey) that is responsible for operating the development of harmonized sampling and laboratory protocols can directly use the Report. The use of harmonized monitoring and measurement methods and equipment is very important at the boundary crossing to provide comparable results in the sediment evaluation. It is even more important at the trans-boundary regions of the river where both countries measure in the same cross-section. Development of these harmonized methods can be performed only in case when all relevant information is available. This Report fulfills the requirements of DTP objectives and provides sufficient data for WP4.

**Suggestions for improvement, if applicable (max. 1500 characters)**

There are apparent differences among the content and details of the reported information and demonstrated knowledge on sediment monitoring by various Danube Basin countries, as reflected in the extensive Inventory Report. However, this is according to the objectives of (any) inventory: identifying the available strength and existing gaps that lays a good and critical foundation of further project development by benefiting from the identified strength and by addressing the remediation of existing gaps in knowledge and experience.

**Output Quality Level**

- ☐ Low
- ☐ Average
- ☐ Good
- ☒ Excellent

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