

Danube Transnational Programme  
Sediment-quality Information, Monitoring and Assessment System  
to support transnational cooperation for joint Danube Basin water management

# **Deliverable D3.1.2 Inventory workshop**

10<sup>th</sup> April 2019, Vienna, Austria

SIMONA



## 1. Executive summary

The Inventory workshop is a Deliverable and final result of the activity AT1.1 Describing current status. The workshop is contributing to building SO1 'Common knowledge on current status of HSS' sediment monitoring in DRB' (SO1). The report includes the minutes including the Q&A, presentations and list of participants. This information sets the basis and directions for all the SIMONA protocols development (WP4, WP5 and WP6).

The report aims at reporting the main activities carried out in the frame of this activity, the presentations made by each participant, the main contributions emerged during the discussion and also at highlighting the interactions among different WPs in relation to the objectives of the project. The Inventory workshop has been organized by Project Partner Geological Survey of Austria. The meeting was held at Geological Survey of Austria, on 10<sup>th</sup> April 2019. 42 participants from 12 DTP countries attend the workshop. Both the administrative and the technical staff of SIMONA have been involved for the organization and management of the meeting.

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| Project title      | Sediment-quality Information, Monitoring and Assessment System to support transnational cooperation for joint Danube Basin water management |
| Project Acronym    | SIMONA  |
| Starting Date      | 01-06-2018  |
| End Date           | 31-05-2021  |
| Funding Scheme     | Danube Transnational Programme  |
| Overall Budget     | 1.749.152,38 EUR  |
| Priority Programme | Environment and culture responsible Danube region   |
| Specific objective | Strengthen transnational water management and flood risk prevention   |

## 2. Agenda

### Wednesday, 10<sup>th</sup> April (open session for public)

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| <b>12:00 – 12:30</b> | <b><i>Registration of participants and welcome coffee</i></b> |
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| <b>12:30 – 12:35</b> | Welcome by Project Manager (SI-GEOZS) and Host institution AT- AIT/GBA         |
| <b>12:35 – 12:50</b> | Scientific Coordinator (HU-SZIE) presentation about status of the SIMONA tasks |
| <b>12:50 – 13:20</b> | WP3 Leader presents the evaluation process of the Inventory Qs.                |

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| <b>13:20 – 15:00</b> | <b>Voluntary presentations on available (best) methods</b> |
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| <b>13:20 – 13:40</b> | HU-NARIC/HU-SZIE (Evaluation WG leader presentation; CIS guidance, WFD framework) |
| <b>13:40 – 14:00</b> | AT-GBA (sampling in small rivers)   |
| <b>14:00 – 14:20</b> | HU-BME (sampling in large rivers)   |

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| <b>14:20 – 14:40</b> | <b><i>Coffee break</i></b> |
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| <b>14:40 – 15:00</b> | ICPDR presentation (JDS4 plans, available data/support for SIMONA) |
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| <b>15:00 – 16:20</b> | <b>Review the current status of WP4 Activity 4.1.</b> |
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| <b>15:00 – 15:40</b> | Sampling WG leader presentation (status quo + future tasks/problems; CIS guidance, WFD framework)   |
| <b>15:40 – 16:20</b> | Laboratory WG leader presentation (status quo + future tasks/problems; CIS guidance, WFD framework) |

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| <b>16:20 – 17:00</b> | <b>Open discussion</b> |
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## 3. Minutes

**Date:** Wednesday, 10<sup>th</sup> April 2019 Ljubljana, Slovenia

**Place:** GEOLOGICAL SURVEY OF AUSTRIA  
Neulinggasse 38, 1030 Wien, Austria

### Introduction

The Inventory meeting of the SIMONA project was held in Vienna on April 10<sup>th</sup>, 2019 at Geological Survey of Austria. At the meeting 42 participants representing the 13 partners (ERDF, IPA, and ENI), including 4 Associated Strategic Partners (ASP) from Republic of Srpska (Bosnia and Herzegovina), Bulgaria, Hungary and Slovakia, participated. The meeting was organized with the following aims:

- To review the questionnaires and find common ground;
- To share most important information about the project and have a common overview of the upcoming tasks;
- To relate the project with international organizations such as ICPDR (International Commission for the Protection of the Danube River), ISRBC (International Sava River Basin Commission), EUSDR (EU Strategy for the Danube Region);
- To get the SIMONA consortium together in person.

### Content

The Inventory workshop was an open event to all stakeholders and beneficiaries of the SIMONA project and is a deliverable D.T1.1.2. In the first part, the partners were invited to give presentations on (best) methods. While the second part was devoted to review the current status of activity WP 4.1 “Reviewing current sampling and laboratory methods of HSs in water, sediment and biota matrixes”. This presentation was followed by two presentations of the working groups Sampling and Laboratory.

At the open discussion the challenge of harmonizing SIMONA with DanubeSediment project emerged. The DanubeSediment will set up monitoring network with several extra monitoring points with the purpose to evaluate sediment balance. This network will serve as a baseline for SIMONA project whose aim is mainly the evaluation of the quality of sediments. Regarding the harmonized procedures within the SIMONA project, the guidelines or rules given from the European Commission are not satisfactory for fulfilling the diversity of polluting substances in the project countries. SIMONA will provide joint monitoring exercises, respecting also the national legislations.

Through the discussion the partnership decided to start the harmonization at the starting point – inventorying and reviewing review the existing ISO standards and guidelines. Some partners are not familiar


with the international standards, so the mutual decision was made – partners are to review and study the existing literature (the budget on BL4 is sufficient).

Working groups (WG) were established at the Kick-off meeting in September 2018 in Ljubljana. Due to some changes in the project teams within partnership, the WGs were also finalized during Vienna meeting. The challenge of the working groups is to clearly define appropriate procedures for monitoring stream sediments. For the field work, common field sheets should be designed.



It was commonly agreed that the quantity of the sample for the chemical analysis was quite important. In a big sample, only minor quantities of certain chemical can be detected. If a sample is too small, the detection is almost impossible. The partnership should pay special attention on this issue when conducting field work. Understanding sedimentology is crucial for correct sample quantity assessment.



### 12:30 – 13:20 Introduction and Inventory workshop start

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| 12:30 – 12:35 | Welcome by Host institution (AT-GBA) and Scientific coordinator (HU-SZIE)  | <p><i>Mag. Robert Supper</i><br/>(AT-GBA)</p>  |
| 12:35 – 12:50 | <p>Status of the SIMONA project</p> <p>Scientific coordinator Gyozo Jordan (HU-SZIE) presented an overview of the current status of the SIMONA project and what our next steps are.</p> <p>During the presentation Mr Peter Gyuris presented GoogleDrive and its functionalities.</p> <p>Future work:</p> <p>For each project partner Partner Information Sheet will be upload on Google Drive based on their individual activity during the project.</p> <p><i>Power Point presentation: 01_SIMONA Current status, 01_SIMONA workplan</i></p> | <p>Győző Jordán (HU-SZIE)</p>                  |
| 12:50 – 13:20 | Evaluation process of the Inventory questionnaires (RO-IGR)  | <p><i>Anca-Marina Vijdea</i><br/>(RO-IGR)</p>   |


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|  | <p>The purpose of this presentation is to give an overview of the data provided by the partners with the Inventory Questionnaire and the target values of indicators, which differ among countries.</p> <p>Future work:</p> <p>Within 2 weeks RO-IGR sends all partners the Inventory Report for checking and additions, if needed. All partners have agreed.</p> <p><i>Power Point presentation: 02_SIMONA WP3 Inventory Report</i></p> |  |
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**13:20 – 15:00 Voluntary presentations on available (best) methods**

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| <p>13:20 – 13.40</p> | <p>Evaluation protocol development (HU-SZIE, HUNARIC, HU-WM)</p> <p>The representative of the General directorate of water management in Hungary gave presentation with overview of WFD requirements, Monitoring of contaminants in sediment, and Hungarian methodologies. As a conclusion of the presentation additional questions were given by the representative.</p> <p><i>Power Point presentation: 03_SIMONA WP5 Evaluation protocol development</i></p> | <p><i>Zsófia Kovács</i><br/><i>(General directorate of water management in Hungary)</i></p>  |
| <p>13:40 – 14.00</p> | <p>Sampling of stream bed sediments (AT-GBA)</p> <p>The sampling of stream bed sediments was presented as best-case scenario by the representative of Austrian project partner.</p> <p><i>Power Point presentation: 04_SIMONA Sampling of stream bed sediment</i></p>   | <p><i>Sebastian Pfeleiderer</i><br/><i>(AT-GBA)</i></p>                                      |
| <p>14:00 – 14:20</p> | <p>Sediment sampling in large rivers (HU-BME)</p>   | <p><i>Barbara Kéri (HU-BME)</i></p>   |

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|                      | <p>In the DanubeSediment project the procedure for sediment sampling in large rivers was adopted and presented at our Inventory workshop.</p> <p>Q/A:</p> <p>Have you proposed a network and sampling protocols in your project?</p> <p>Yes, we will set up monitoring network with several extra monitoring points.</p> <p><i>Power Point presentation: 05_SIMONA Sediment sampling in large rivers</i></p> |                                    |
| <p>14:40 – 15:00</p> | <p>ICPDR monitoring &amp; sediments</p> <p>The sampling procedures and data today exist but differs among countries. The main interest of ICPDR is to get the harmonized sampling procedure from the SIMONA project. Their focus is mainly on emerging substances in water and sediments.</p> <p><i>Power Point presentation: 06_SIMONA_ICDPR Monitoring &amp; sampling</i></p>                              | <p><i>Igor Liska (ICPDR)</i></p>  |

**15:00 – 17:00 Reviewed the current status by WP4 Activity 4.1**

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| <p>15:00 – 15:40</p> | <p>Sampling WP leader presentation (HR-HGI-CGS)</p> <p>WP 4 was presented, and activity 4.1. overview was made. The current sampling data was shown, and conclusions made before the official WG Sampling meeting (next day).</p> <p>Future work:</p> <p>Review missing topics and update all reviews with the updated questionnaires till the end of April.</p> <p>Start with the <b>WP4 Activity 2 – Development of transnationally harmonized sediment sampling protocols</b> for HSs of bottom, suspended and flood-plain sediment which includes: proposal for sampling design and monitoring; method/s for sampling technique/procedure and protocols.</p> | <p><i>Ajka Šorša (HR-HGI-CGS)</i></p>  |
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|               | <p>Development of the proposal of harmonized sediment sampling protocols for HSs in DRB's surface waters should be done in the period <b>April 2019 - August 2019</b>.</p> <p><i>Power Point presentation: 07_SIMONA Sampling WG</i></p>   |  |
| 15:40 – 16:20 | <p>Sediment sampling protocols (HU-SZIE)</p> <p>Project partner HU-SZIE prepared the sediment protocols overview, on which our procedures will base on. After the presentation, the Sampling WG leader concluded the debate.</p> <p>Future work:</p> <p>We need to establish harmonized sampling and laboratory protocols till the end of August 2019.</p> <p>Each Project partner (country) should get information about sampling protocols used in their country.</p> <p>Q/A:</p> <p>How to sample suspended sediments in small rivers where water table is below 0.5 m?</p> <p>Barbara Keri: The sampling should be carried out using glass bottle.</p> <p><i>Power Point presentation: 08_SIMONA Sediment sampling protocols and 08_SIMONA WP4 conclusions</i></p> | <p>Győző Jordán (HU-SZIE)</p>                                 |
| 16:20 – 17:00 | <p>Harmonization of Analytical methods for Sediment-quality Information, Monitoring and Assessment System</p> <p>The leader of Laboratory WG presented analytical methods (standards) for different chemical parameters. Our developed protocols for chemical analysis should be made for measuring pesticides, organic industrial pollutions and inorganic compounds as heavy metals.</p> <p>Future work:</p>   | <p>Péter Fodor (HU-SZIE)<br/>(Szent István University)</p>  |



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|  | <p>Each project partner included in the Laboratory WG as expert should have 5-10 standards for analytical methods.</p> <p><i>Power Point presentation: 10_SIMONA Harmonization of analytical methods</i></p> |  |
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## List of participants

Inventory workshop of the SIMONA Project 10 April 2019 Vienna, Austria



| No. | Surname       | Name     | Institution  |
|-----|---------------|----------|--|
| 1   | Alexe         | Veronica | Geological Institute of Romania                        |
| 2   | Balan         | Lidia    | Geological Institute of Romania                        |
| 3   | Cerar         | Sonja    | Geological Survey of Slovenia                          |
| 4   | Čaić Janković | Ana      | Croatian Geological Survey                             |
| 5   | Dević         | Neda     | Geological Survey of Montenegro                        |
| 6   | Erić          | Suzana   | University of Belgrade – Faculty of Mining and Geology |

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| 7  | Fodor      | Peter              | Szent István University   |
| 8  | Gheorghe   | Iepure             | Tech.Uni. Of Cluj Napoca, North Uni. Center of Baia Mare                  |
| 9  | Ginin      | Stela              | Executive Environment Agency  |
| 10 | Gyuris     | Peter              | Szent István University   |
| 11 | Haslinger  | Edith              | Austrian Institute of Technology GmbH                                     |
| 12 | Hiklová    | Zuzana             | Slovak Water Management Enterprise, state enterprise                      |
| 13 | Hikov      | Atanas             | Geological Institute of Bulgarian Academy of Sciences                     |
| 14 | Hucko      | Pavel              | Water research institute  |
| 15 | Ivanišević | Danijel            | Croatian Geological Survey  |
| 16 | Jordán     | Győző              | Szent István University   |
| 17 | Kamenova   | Kalinka            | Ministry of Environment and Water   |
| 18 | Kéri       | Barbara            | Budapest University of Technology and Economics                           |
| 19 | Knoll      | Tanja              | Geological Survey of Austria  |
| 20 | Kordik     | Jozef              | State Geological Institute of Dionyz Stur                                 |
| 21 | Kovács     | Zsofia             | General directorate of water management in Hungary                        |
| 22 | Kovačević  | Aleksandra         | Public Institution “Waters of Srpska”                                     |
| 23 | Liska      | Igor               | International Commission for the Protection of the Danube River           |
| 24 | Mišur      | Ivan               | Croatian Geological Survey  |
| 25 | Mitrović   | Tatjana            | Water Institute Jaroslav Černi  |
| 26 | Mörtl      | Mária              | National Agricultural Research and Innovation Centre                      |
| 27 | Nasui      | Daniel             | Tech.Uni. Of Cluj Napoca, North Uni. Center of Baia Mare                  |
| 28 | Nováková   | Jarmila            | State Geological Institute of Dionyz Stur                                 |
| 29 | Pfleiderer | Sebastian          | Geological Survey of Austria  |
| 30 | Roško      | Vladimír           | Water research institute  |
| 31 | Simić      | Barbara            | Geological Survey of Slovenia   |
| 32 | Stefan     | Damian<br>Gheorghe | Technical University of Cluj Napoca, North University Center of Baia Mare |
| 33 | Stríček    | Igor               | State Geological Institute of Dionyz Stur                                 |
| 34 | Šarić      | Kristina           | University of Belgrade – Faculty of Mining and Geology                    |

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| 35 | Šorša       | Ajka           | Croatian Geological Survey  |
| 36 | Takács      | Eszter         | National Agricultural Research and Innovation Centre                      |
| 37 | Tokarčíková | Ľudmila        | State Geological Institute of Dionyz Stur                                 |
| 38 | Vetseva     | Milena         | Geological Institute of Bulgarian Academy of Science                      |
| 39 | Vićanović   | Jelena         | Public Institution “Waters of Srpska“                                     |
| 40 | Vijdea      | Anca-Marina    | Geological Institute of Romania   |
| 41 | Vulić       | Dragica        | Water Institute Jaroslav Černi  |
| 42 | Zsolt       | Szakacs Laszlo | Technical University of Cluj Napoca, North University Center of Baia Mare |

Absent: ISRBC (International Sava River Basin Commission) and EUSDR (EU Strategy for the Danube Region).

All presentations are included in the output T1.2 (WP3), available in the Library section of the SIMONA official web page.