

## Project Partners

- TU Wien, Austria
- National Administration „Romanian Waters”
- Bulgarian Water Association
- Umweltbundesamt - Environment Agency Austria
- International Commission for the Protection of the Danube River, Austria
- Budapest University of Technology and Economics, Hungary
- University of Zagreb, Faculty of Chemical Engineering and Technology, Croatia
- Water Research Institute, Slovakia
- Jozef Stefan Institute, Slovenia
- Center for Ecotoxicological Research Podgorica, Montenegro
- Institute of Chemistry, Moldova

## Contact

Matthias Zessner  
Project manager of Danube Hazardous m<sup>3</sup>c project

TU Wien, Institute for Water Quality and Resource Management

danubehazard@tuwien.ac.at

T: +43 (0)1 58801-22616

For further information on the project, partnership and the Danube Transnational Programme:

<http://www.interreg-danube.eu/approved-projects/danube-hazard-m3c>



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# DANUBE HAZARD m<sup>3</sup>c

## Tackling hazardous substances pollution in the Danube River Basin



 **Interreg**   
Danube Transnational Programme  
Danube Hazard m<sup>3</sup>c

Project co-funded by European Union funds (ERDF, IPA, ENI)

**Management of Hazardous Substances – a Transboundary Objective in the Danube Region**

**Scope** Pollution of streams, rivers, lakes and oceans by hazardous substances poses a risk to the health of humans and wildlife.

The EU Water Framework Directive addresses hazardous substances pollution as a major water quality issue to be tackled.

Cooperation of 11 project partners and 12 associated partners from 14 countries bring hazardous substances management in the Danube River Basin (DRB) to a higher level.

**Main results and outputs** The main outputs of the Danube Hazard m<sup>3</sup>c project are as follows. Details can be found at the project's homepage:

- Demonstration of a harmonized monitoring concept and inventory of concentrations of hazardous substances (HS) in the DRB.
- Identification of HS sources and pathways of emissions in the DRB and modelling-based scenario evaluation.
- Training of more than 450 participants on monitoring and applying simulation models in the context of HS management.
- Technical guidance on HS monitoring, inventorying and modeling as well as policy guidance recommending policy instruments and effective measures.

HS management will stay a major challenge for upcoming decades, which only can be faced with common transboundary efforts.

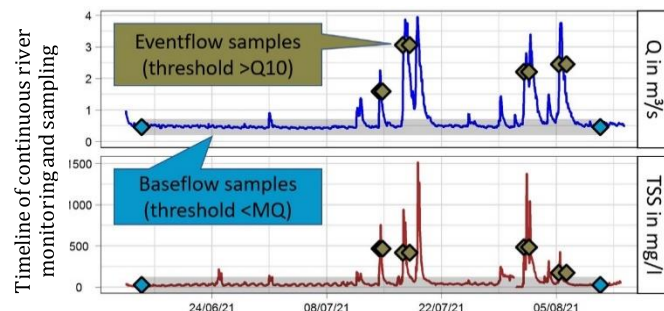
**Project** DANUBE HAZARD m<sup>3</sup>c

**Funding period** 01/07/2020 – 31/03/2023

**Website** [www.interreg-danube.eu/approved-projects/danube-hazard-m3c](http://www.interreg-danube.eu/approved-projects/danube-hazard-m3c)

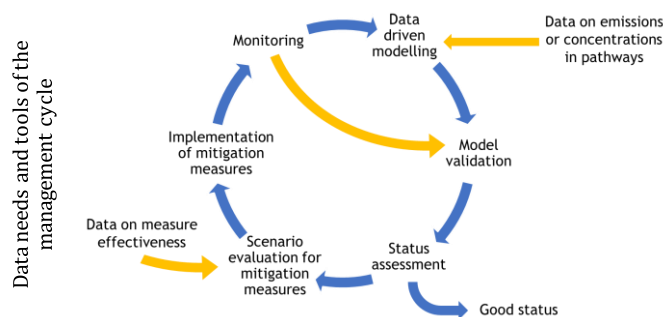
**Monitoring**

Implementation of **stratified sampling strategies** for proper representation of base- and event flow conditions in rivers.



**HS pollution management on the river basin scale**

The project provided major input into required data and tools for **knowledge-based management and policy**.



**Capacity Building**

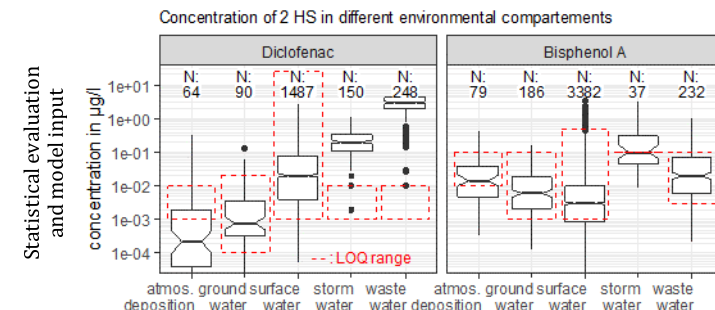
Knowledge transfer was ensured by **national and international training courses** as well as a **technical manual on best practices**.



Participants of the training event in Romania

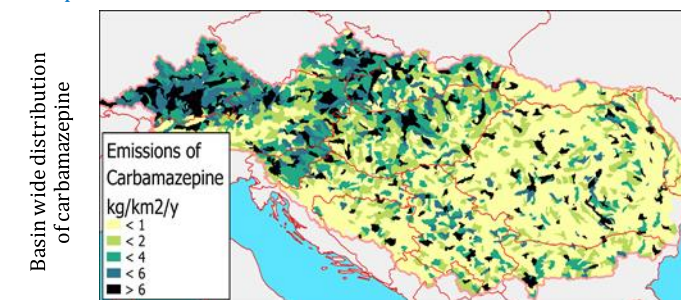
**Inventory**

Inventory with more than 10 Mill. data points for **35 project substances in rivers and emission pathways**.



**Danube-wide modelling**

Danube Hazard Substances Model (DHSM) provided information **beyond the time and space of monitoring** as well as on the **reasons for water pollution and effectiveness of measures**.



**Policy guidance**

The policy guidance provided inputs to the **Danube River Basin Management Plan Update 2021** that was published by the ICPDR.

