

Tackling plastic pollution in the Danube River Basin – Coordinated transboundary actions







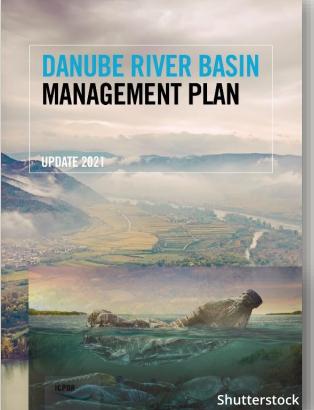
Adam Kovacs
ICPDR Secretariat



Danube River Basin & ICPDR

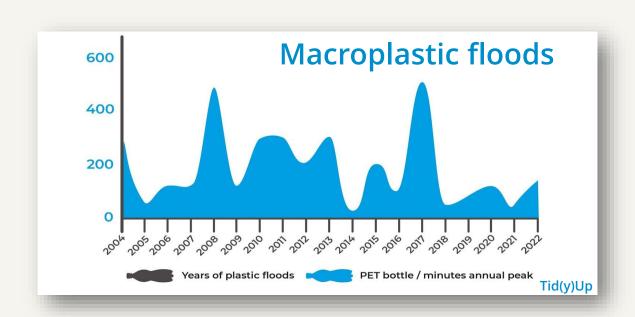


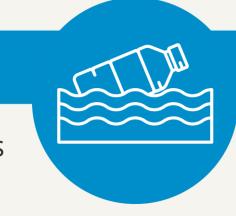


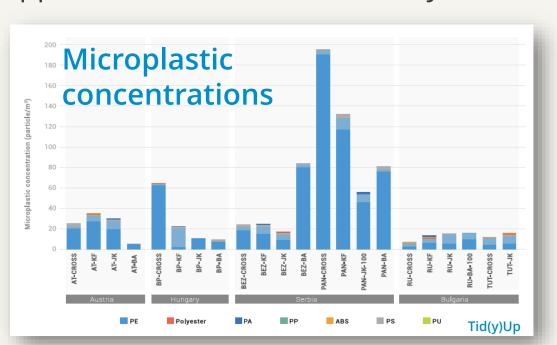


Plastic Pollution Figures in the DRB

- Danube load into the Black Sea: ca. 1,500 tons/year of plastic debris
- Danube river samples: 5-200 particles/m3
- Wastewater samples: influents from 800 to 4,400 particles/m3, effluents from 12 to 85 particles/m³
- Estimated amount of unmanaged waste in the Upper-Tisza basin: 10,000 tons/year

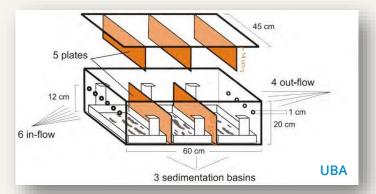


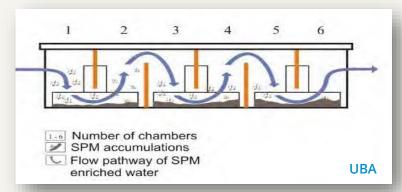




Microplastic Monitoring in Joint Danube Survey 4 (2019)

- Comparable and harmonized riverine plastic data set for the entire length of the Danube to describe microplastics pollution
- Composite (14 days) sampling with a specific sedimentation box (22 sites) and lab analysis (fine grain suspended solids) & sampling mussel species
- Total amount of plastic polymers: 0.1-10 µg/mg, highest values in correlation with impacts of tributaries and major cities
- Plastic polymers detected in all water and mussel samples, polyethylene (PE) and polyethylene terephthalate (PET) as the most abundant components





River Cleanup Activities in the Tisza River: Plastic Cup







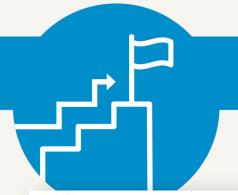






Tid(y)Up Project & its Main Results

- Launching integrated actions, providing practical tools and initiating intersectoral cooperation to address plastic pollution
 - Protocol for plastic monitoring including tested sampling methods for micro- and microplastic
 - Online pollution map with a database
 - Cleanup handguide including a step-by-step illustration about how to organize cleanup interventions
 - Floating Exhibition (FLEX) hosting awareness raising and educational activities
 - Waste reduction toolkit targeting riverside holiday resorts, restaurants, local governments and the public
 - Policy guidance towards preventing and reducing plastic pollution (in cooperation with the ICPDR)









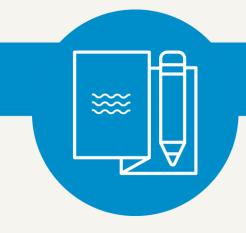
Policy Guidance on Tackling Riverine Plastic Pollution

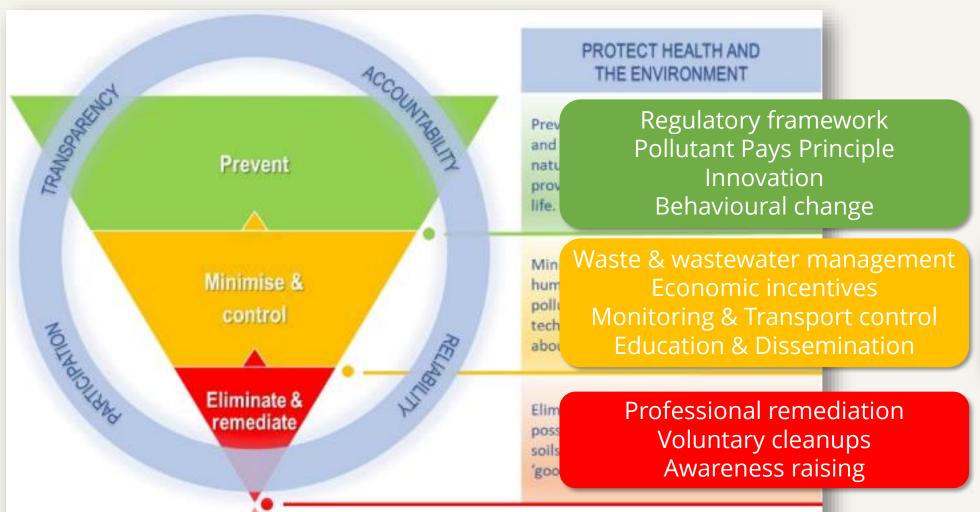
- A strategic document aiming to:
 - offer guidance on preventing and reducing plastic pollution
 - provide regulatory and legislative recommendations
 - promote financial and planning instruments
 - raise awareness among key actors
 - facilitate harmonized actions with other sectors
 - encourage communities and decision makers to organize local/regional/transnational actions
 - assist non-EU member states with knowledge and technology transfer
- Co-developed and implemented by the Danube countries



Key Mechanisms and Measures

COMMISSION





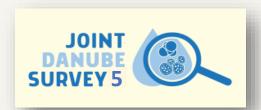


On-going Initiatives to Tackle Plastic Pollution

- Transnational projects focusing on coordinated actions and tools to prevent, detect and eliminate plastic pollution:
 - Providing guidance and technical tools to manage plastic pollution
 - Developing solutions to detect plastic waste accumulations and manage and recycle large waste deposits
 - Monitoring and managing microplastic pollution in surface water, groundwater and drinking water
- Additional monitoring campaign to be carried out in JDS 5 (2025)
- Future exchange with the Black Sea Commission on marine litter pollution
- Supporting the EC-UNEP Working Group on plastic pollution







Thank you very much for your attention!





Welcome to ICPDR.org!



We invite you to browse through our website and sincerely hope we can inspire you to learn more about how the LCEDB works tirelessly towards cleaner, healthier and safer waters in the Danube River Basin, for everyone to apply

Mr. Vladimír Novák ICPDR President 2024

Latest Publications

TNMN Yearbook 2021 (4.45 MB)

Accidental Pollution Hazard the Danube River Basin (Final Report) (1.69 MB)

Water Tips Fact sheet (14.66 MB)

(20.83 MB)

2021 Report on the MONERIS model application (4.73 MB)



The Mile: World Bank and ICPDR co-organize a workshop on rural water service manners ment

For many countries in the Danube region, achieving universal access to water services while safeguarding water resources remains a significant challenge, particularly in rural areas.



News & Media 8 April 2024

ICPDR to Host Kick-off Event for Tethys Project Building on the successes of the

Danube Hazard mSc project, the launch of the Tethys project is set to take place on April 11-12, 2024, in Vienna. Funded by the Danube Regional Programme, Tethys under 13 project partners and 10 associated strategic partners to address hazardous substances pollution in the Danube River Basin.



Vienna, 23 January 2024
Vienna, 23 January 2024
- Slovakia Commences
Leadership of ICPDR



News & Media 5 April 2024 Launching SAFETY4TMF: Enhancing Tailings

Launching SAFETY4TMF: Enhancing Tailings Management Facility Safety in the Danube River Basin

A highly anticipated kick-off took place in Ostrowa, Czech Republic, on 19-20 March, as the SAFETY4TIN Project, an acronym for "Coordinated Prevention and Insaster Management Activities on Tallings Management Facilities on Tallings Management F



ews & Media 20 December 202



News & Media 4 April 202

New Guidance Document on Tackling Riverine Plastic Pollution

Addressing transboundary riverine litter pollution demands a multifaceted strategy, incorporating harmonized actions, standardized measurements, advanced waste management techniques, and heightened awareness on an international scale.

Our new publication fills a critical

Our new publication fills a critical gap, emphasizing the need for regulatory frameworks to establish effective waste management systems and deter illegal waste disposal.









