Preventing Accidental Water Pollution in the Danube River Basin



UNECE seminar on contingency planning, early warning and mitigation



Danube River Basin



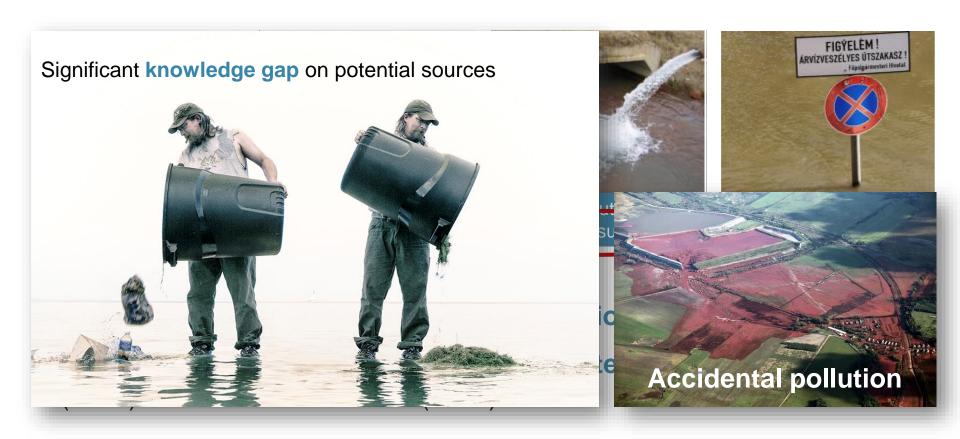
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Role of the ICPDR



ICPDR: platform for transboundary cooperation on water management



ICPDR IKSD

Sad examples from the basin

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Baia Mare gold mine (RO, 2000): cyanide spill polluting the Szamos and Tisza Rivers

Ajka alumina plant (HU, 2010): red mud spill reaching surrounding land, agglomerations and creek



Severe acute toxicity, 95% of living organism were killed, water supply problems, chronic toxicity via heavy metals



Acute harm via alkalinity (chemical burning), 10 victims, severe impacts on human health, livestock, soil, properties and infrastructure

Accident prevention & control

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- Mandate (DRPC): minimise risk and consequences of accidental pollution events by safety measures and crisis management
- Platform: Accident Prevention and Control Expert Group (APC EG)

Accident prevention



Early warning



ICPDR pillars





Awareness raising
Info for the public
Stakeholder orientation

Platform for exchange



Tools and expertise

Transparency and access

Tools for water management: ICPDR IKSD **Early warning**

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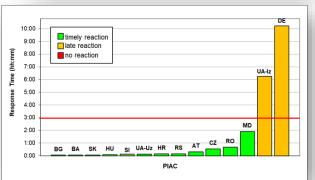


Accidental Emergency Warning System (AEWS)



- Web-based communication system for response to any transboundary emergency situations in the DRB rivers
- Activated if a real risk of accidental pollution exists or threshold levels of dangerous substances are exceeded
- Warning message to be sent out to the downstream countries according to predefined routing
- Time enough for quick emergency safety measures and actions
- Centrally maintained and upgraded, regular trainings and tests, low user requirements





Tools for water management: ICPDR IKSD **Hot-spot inventories**

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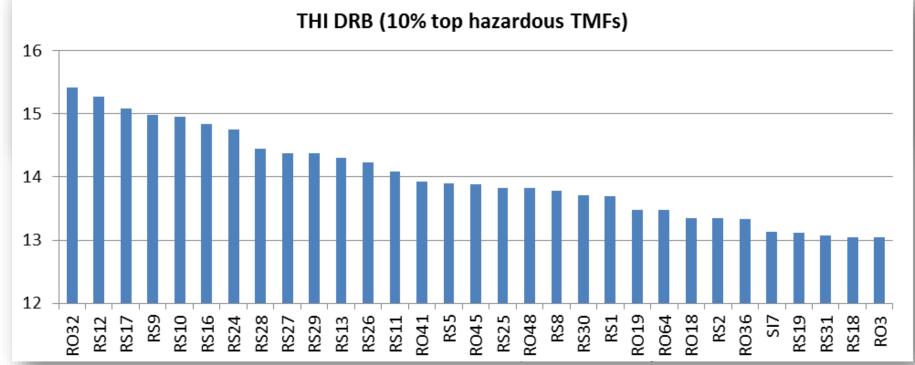






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Tools for water management: ICPDR Measures

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- Identification of priority industrial fields in the Danube River Basin
- Promoting/adapting checklists and catalogues of measures
- Organising seminars, trainings and projects to support countries
- Key sectors of high relevance:
 - 1) Oil industry
 - 2) Chemical industry
 - 3) Tailings management facilities
 - 4) Contingency planning







Demonstration TMF training course for the north-eastern DRB



- Capacity building for the north-eastern DRB countries by an international training event
- Deepening the knowledge of invited operators, inspectors and experts on TMF management
- Further enhancing and completing a previously developed detailed checklist method
- Integrating land use planning aspects (risk index)
- International workshop for the DRB countries, UNECE region and other river basin organizations
- Follow-up national programs (train the trainer approach)



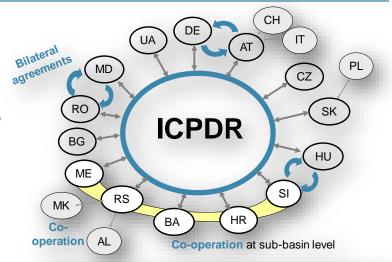


Contingency management in the DRB



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- Contingency planning and crisis
 management: based on bi- or
 multilateral cross-border agreements
 in the Danube countries
- Cooperation, exchange and exercises proven to be sufficient
- ICPDR APC EG: platform for regular information exchange on bi- or trilateral contingency exercises carried out by neighboring countries
- Integration of national existing approaches into the UNECE guidance recommended for the Danube countries

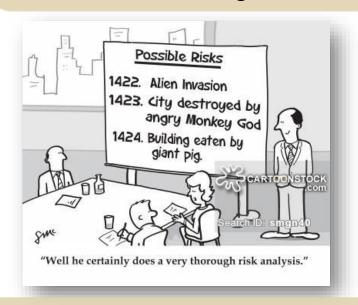




Conclusions



- Platform for cooperation on accidental pollution related issues
- Tools for risk mitigation and early warning
- Awareness raising and orientation





Countries need to get active and take actions!

Thank you for your attention!

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For more information please visit the ICPDR website:

http://www.icpdr.org















