

Needs of transboundary water management in the Danube River Basin



Gaps, remaining challenges and future tasks until 2027

Deutschland // Öste



România // България // Moldova // Україна



Adam Kovacs
ICPDR Secretariat

Danube River Basin

ICPDR IKSD

International Commission
for the Protection
of the Danube River

Internationale Kommission
zum Schutz der Donau



Role of the ICPDR



- **ICPDR**: platform for **transboundary cooperation** on water management



Sustainable & equitable
use of water



Protection of water &
ecological resources



Reduce nutrients &
hazardous substances



Manage floods
& ice hazards

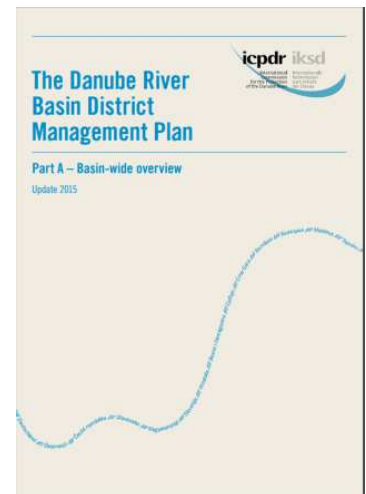
- Implementation of the **Danube River Protection Convention** (1994)
- Coordination of the implementation of EU **Water Framework** Directive (2000) & EU **Floods** Directive (2007)
- In charge for **policy-making** and **technical work** on transboundary water management

River Basin Management



- Danube River Basin District Management Plan – **Update 2015**

- Determining **priorities** for transboundary water management on the basin-wide level for the period 2015 to 2021
- **Pressures** assessment, **status** assessment, Joint Program of **Measures, financing, integration** issues
- Specific attention to **key** water management **issues**



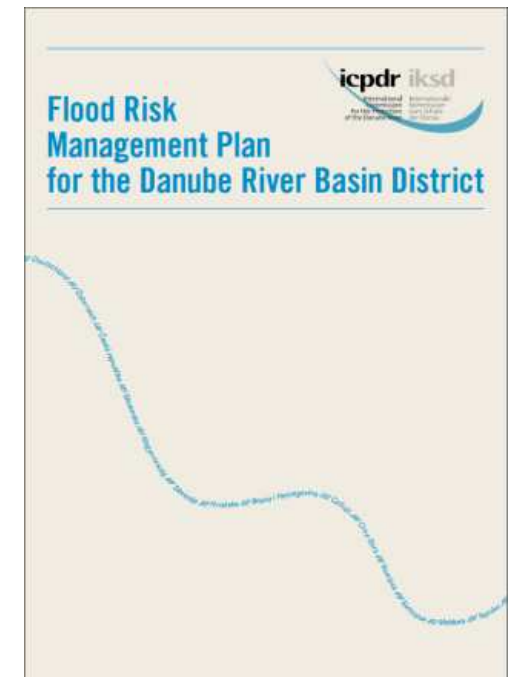
- Interim Report on Joint Program of Measures Implementation – 2018

- Yardstick for **measure implementation**
- Key messages around **10 significant issues**
- Progress, **achievements** & **challenges**, gaps

Flood risk management



- Determining **priorities** for transboundary flood management on the basin-wide level for the period 2015 to 2021
- **Solidarity** principle (no negative impacts)
- No new risk, **reduced** existing risks, higher **resilience**, public **awareness**
- Flood **hazard** maps and flood **risk** maps
- List of **strategic level** measures with examples (downstream effects, applicable in more countries)
- Annex II: List of proposed **transboundary project ideas**



DTP SO 2.1 related topics and needs

- **RBM related issues**

- Wastewater management
- Sustainable agriculture
- Hazardous substances
- Hydromorphology
- Groundwater protection

- **Prevention issues**

- Flood risk management
- Accident prevention

- **Other important (not SO 2.1 relevant) issues**

- Sturgeon conservation
- Monitoring and assessment



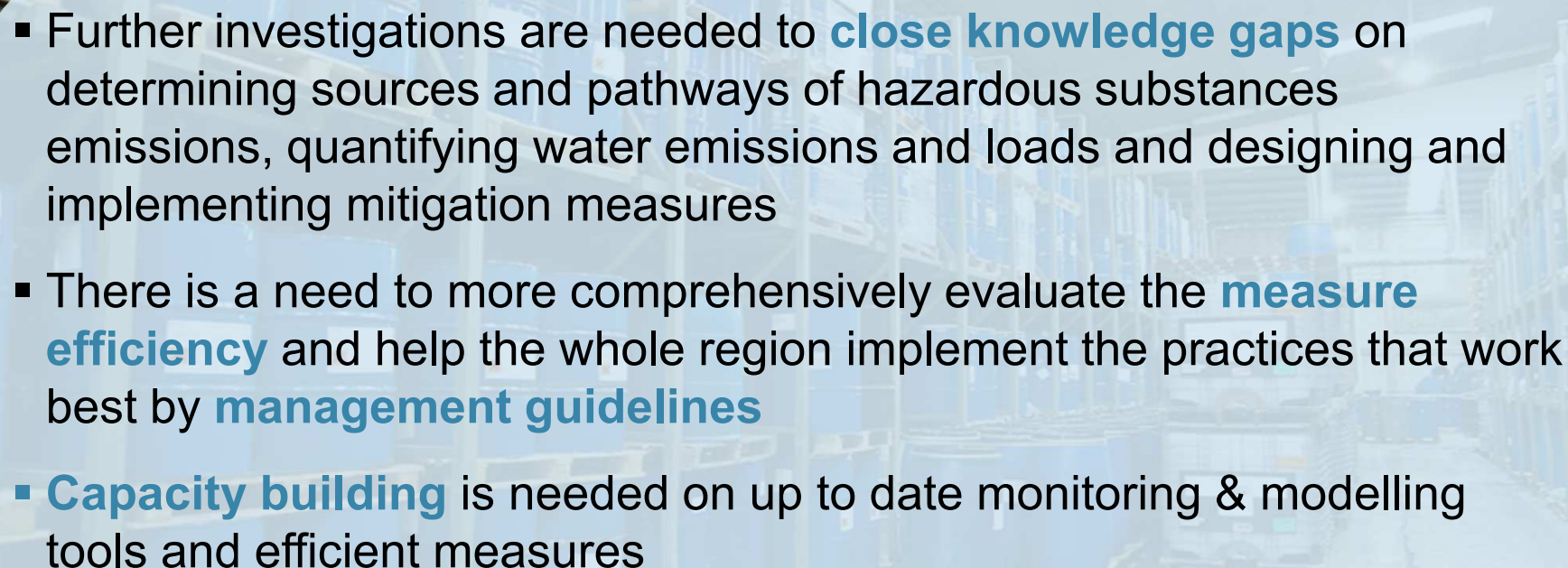
Wastewater management

- Wastewater treatment and sewer **projects** that are still to come in the Danube River Basin are numerous
- In the old EU MS, investments needs will be shifted towards the proper **maintenance and rehabilitation** of the existing infrastructure
- In new and non-EU MS **financing** infrastructure projects, **tariff setting and affordability**, establishing proper **legal framework** and **restructuring** the utility sector are issues of high importance
- **Capacity** should be strengthened at national and local **administration** level as well as at **utility** level to improve financial, operational and technological aspects of the wastewater infrastructure and services

Sustainable agriculture

- Efforts are needed to better align the goals of **water and agricultural sectors**
- **Win-win strategies** and solutions should be developed and promoted in order to **decouple** nutrient pollution and water scarcity from agricultural development
- Knowledge gaps on **measure efficiency** need to be closed
- **Awareness raising** is needed related to the link between agricultural practices and biodiversity, agro-environmental measures should be made more **attractive**
- **Technical & financial support** and **appropriate information** on modern technologies and tools should be provided for farmers

Hazardous substances pollution

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- Further investigations are needed to **close knowledge gaps** on determining sources and pathways of hazardous substances emissions, quantifying water emissions and loads and designing and implementing mitigation measures
 - There is a need to more comprehensively evaluate the **measure efficiency** and help the whole region implement the practices that work best by **management guidelines**
 - **Capacity building** is needed on up to date monitoring & modelling tools and efficient measures

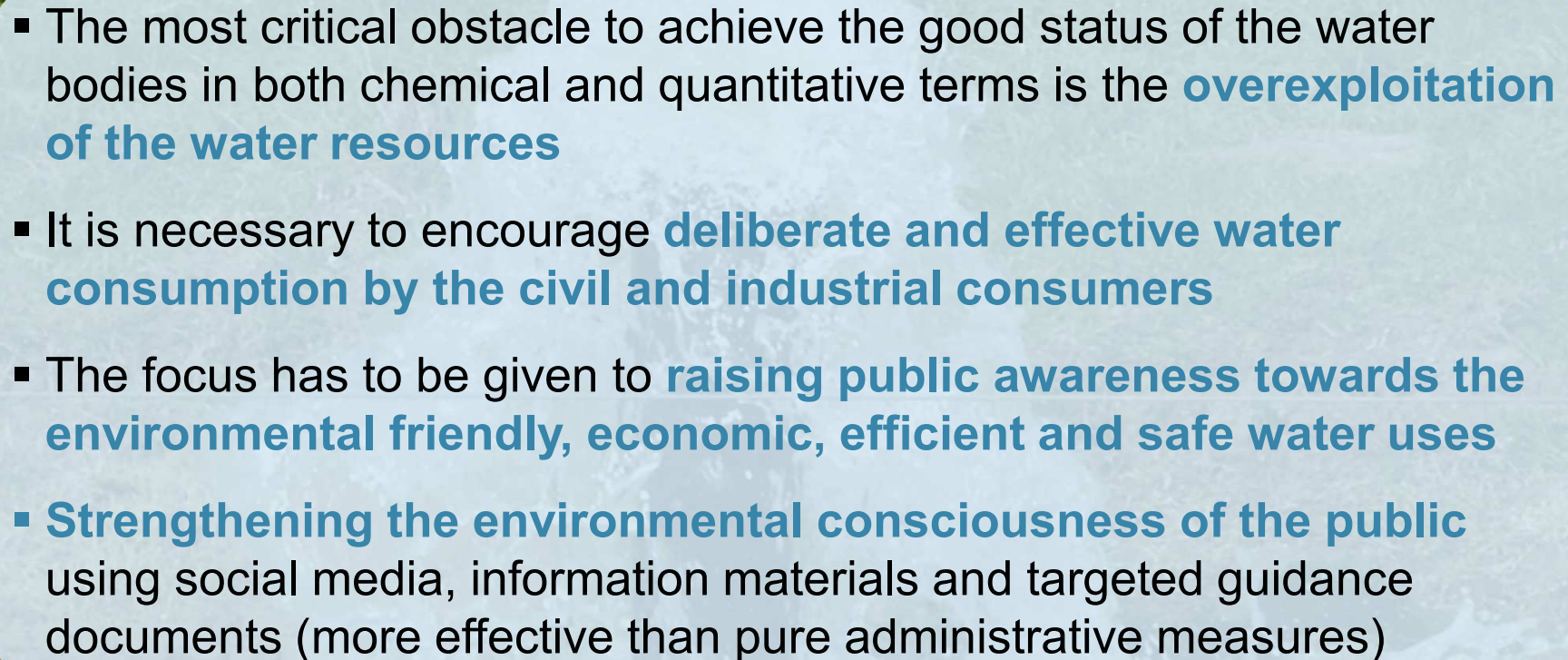
Accident prevention

- **Capacity building** is necessary to improve safety management at industrial facilities storing large amount of dangerous chemicals, particularly in the mineral processing, energy and chemical industries
- Particular attention needs be paid to **mining and industrial tailings facilities**
- National **training programs** need to be established and implemented to train authority inspectors and facility operators
- Lack of information on **old/abandoned contaminated sites** (pollution risk, mitigation measures, rehabilitation)

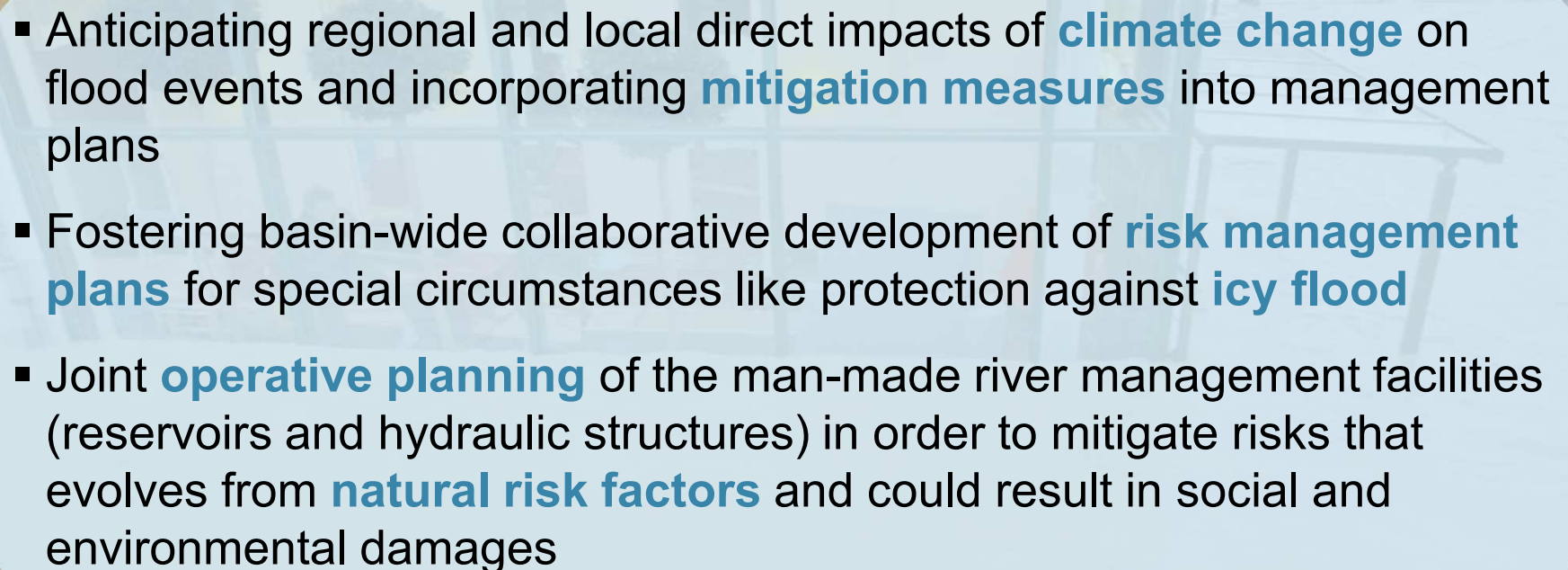
Hydromorphology

- There is a significant lack of sound scientific and technical information regarding the **monitoring of pressures on** and **planning of measures for fish migration**
- Substantial gaps remain regarding the **interconnection between hydromorphological measures and ecological status** or changes/improvements in ecological status
- Insufficiently harmonized or total **lack of documentation on water abstractions**
- **Property rights disputes on land** suitable for implementation of measures

Groundwater protection

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- The most critical obstacle to achieve the good status of the water bodies in both chemical and quantitative terms is the **overexploitation of the water resources**
 - It is necessary to encourage **deliberate and effective water consumption by the civil and industrial consumers**
 - The focus has to be given to **raising public awareness towards the environmental friendly, economic, efficient and safe water uses**
 - **Strengthening the environmental consciousness of the public** using social media, information materials and targeted guidance documents (more effective than pure administrative measures)

Flood risk management

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- Anticipating regional and local direct impacts of **climate change** on flood events and incorporating **mitigation measures** into management plans
 - Fostering basin-wide collaborative development of **risk management plans** for special circumstances like protection against **icy flood**
 - Joint **operative planning** of the man-made river management facilities (reservoirs and hydraulic structures) in order to mitigate risks that evolves from **natural risk factors** and could result in social and environmental damages

Thank you for your attention!

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For more information please visit the
ICPDR website: <http://www.icpdr.org>

