Indo-European Water Forum

14 – 15 June 2016, New Delhi, India

Storeni



Transboundary River Basin Management in the Danube River Basin: usomand IIII Österreich //// Česká republika //// Slovensko Linking the International with the National RBM Level

UIII Crna Gora ///

Ms Birgit VOGEL

^{nânia} III България //// Moldova

on behalf of the

уу Україна (

International Commission for the Protection of the Danube River (ICPDR)

bv@rbm-solutions.com

Content



- Re-call: Danube River Basin
- Interlinkage international national level
 - Example: Danube River Basin Management Plan
 - Coordination mechanism
 - Planning and development perspective
 - Implementation perspective
 - Sharing and handling data
- Conclusions

Danube River Basin District Overview

Draft DRBM Plan - Update 2015 - MAP 1



Vienna, November 2015

Catchment Area: 800.000 km² | 80 Mio. People | 19 Countries | Most international River Basin in the World

ICPDR Contracting Parties

International Commission for the Protection

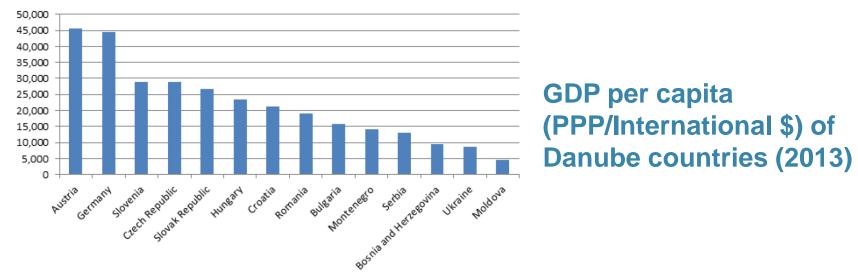
of the Danube River der Donau



The Danube River Basin Heterogeneity

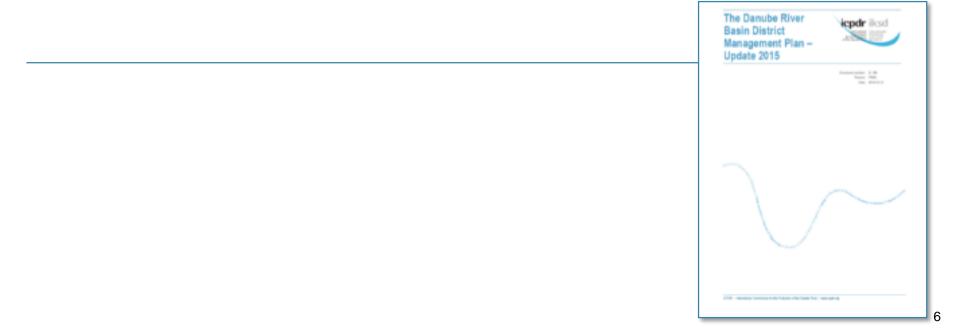


- Different RBM challenges in the 14 Danube countries
 - Bring these together in <u>ONE</u> single RBM Plan
- > 10 different languages however, working language is English
- Heterogenic socio-economic facts: Economic growth, employment rates, armed conflicts in recent history, ...
- GDP: Range between ~ 5,000 and ~ 45,000 \$/capita (PPP)





Interlinkage between the international & national RBM level Example: Coordination, development and implementation of the 1st international Danube River Basin Management Plan



Danube River Basin Management Plan Basic Facts

- DRBM Plan = aligned to the EU Water Framework Directive
- Developed every 6 years within the ICPDR cooperation framework

icpdr iksd

for the Protection zum Schutz

of the Danube River

- 1st DRBM Plan: 2009
- 2nd DRBM Plan: 2015

Developed between all Danube countries on the basin-wide level

Key implementation via the national level

!! Effective coordination is crucial to achieve joint goals !!

Danube River Basin Management Plan Basic Facts



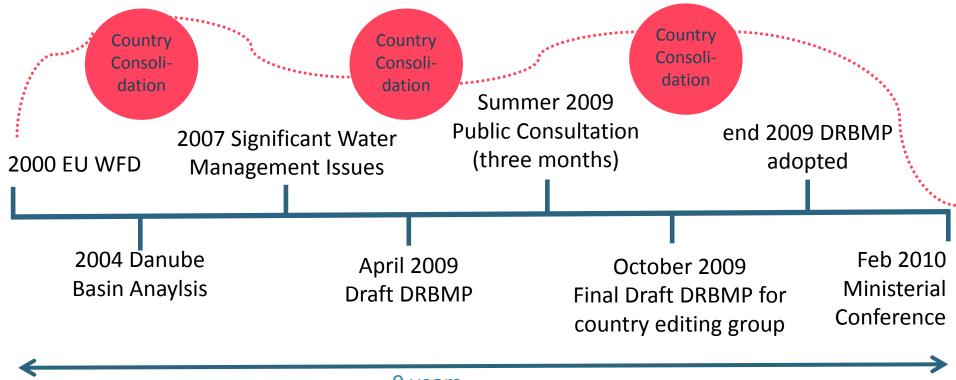
Includes many different themes that need to be coordinated

- River basin characterisation
- Identification of pressures and impacts
- Identification of Significant Water Management Issues
 - Basin-wide / regional importance
- International monitoring network
- Ecological and chemical status of water bodies
- Economic analysis

Joint Programme of Measures for implementation

Danube RBM Plan Timeline

De-centralised River Basin Management takes time



9 years

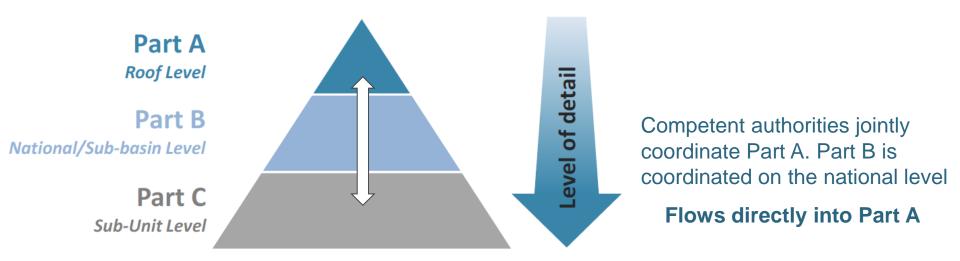
Continuous Process:

Coordination and Exchange between Expert Groups / Task Groups Exchange with stakeholders Data collection and analysis

Danube RBM Plan Coordination Mechanisms



Clear coordination mechanisms and strategy are crucial

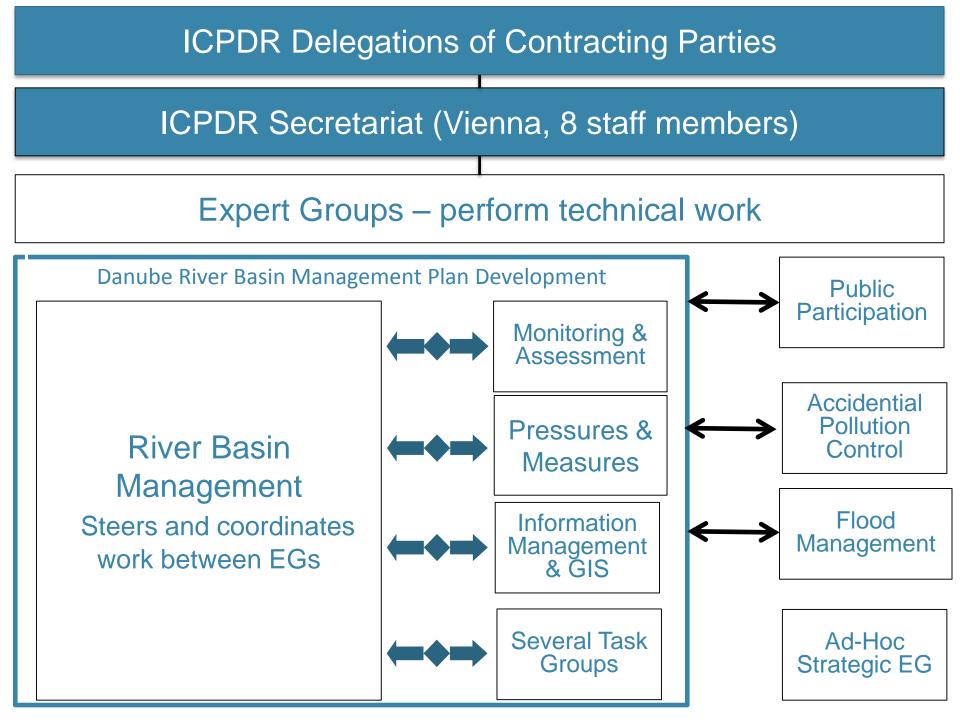


How does this basin-wide/cross-border coordination work in detail ? Operation through thematic Expert/Task Groups

Danube RBM Plan Coordination Mechanisms



- Eight Expert Groups & 4 Task Groups operate under the ICPDR
 - Deal with technical issues to fulfil obligations in a coordinated way
 - Report to the ICPDR plenary twice a year for resolutions
 - Jointly develop the DRBM Plan
- EGs and TGs meet several times a year to discuss, advance and develop technical issues of basin-wide/regional importance
- **Meetings circulate** in different ICPDR countries
- **Clear ToR** for each Expert Group
- Several Task Groups operate only if needed
 - TGs report to the respective Expert Groups



Danube RBM Plan Coordination Mechanism



- 2 representatives are formally nominated per country to EG
 - Nominated experts usually hold a related technical background
- Each Expert Group is **guided by a chairperson**
 - Proposed by EG and confirmed by Heads of Delegations
 - Reports twice a year at the ICPDR plenary meetings
- Nominated observers attend the meetings & participate actively
- EG coordination and facilitation by one Technical Expert
 - Permanently staff of the ICPDR Secretariat in Vienna

Participation is financially fully covered by each country

Decentralised coordination triggers ownership through involving all countries in expert groups



Implementation of the Danube RBM Plan



Four Significant Water Management Issues: Steering Visions & Management Objectives

Danube RBM Plan Basin-Wide Implementation



 Addressing each Significant Water Management Issue from the basin-wide perspective

icpdr i

- Linkage to the national level for implementation ensured
- Only some measures are implemented on international level
 - E.g. Iron Gate Dam and sturgeon migration
 - Project in place
- Implementation mainly through the national level

Probably most challenging part of RBM cycle How to support the implementation on the national level through international guidance?



Example: Restoration of River and Habitat Continuity in the DRB

River and Habitat Interruption – Current Situation



This ICPDR product is based on national information provided by the Contracting Parties to the ICPDR (AT, BA, BG, CZ, DE, HR, HU, MD, RO, RS, SI, SK, UA) and CH, except for the following: EuroGlobalMap v2.1 from EuroGeographics was used for national borders of AT, CZ, DE, HR, HU, MD, RO, SI, SK and UA; ESRI data was used for national borders of AL, ME, MK; Shuttle Radar Topography Mission (SRTM) from USGS Seamless Data Distribution System was used as topography leyer; data from the European Commission (Joint Research Center) was used for the outer border of the DRBD of AL, IT, ME and PL.

River and Habitat Interruption – Planned Improvements



What are the basin-wide implementation priorities ?

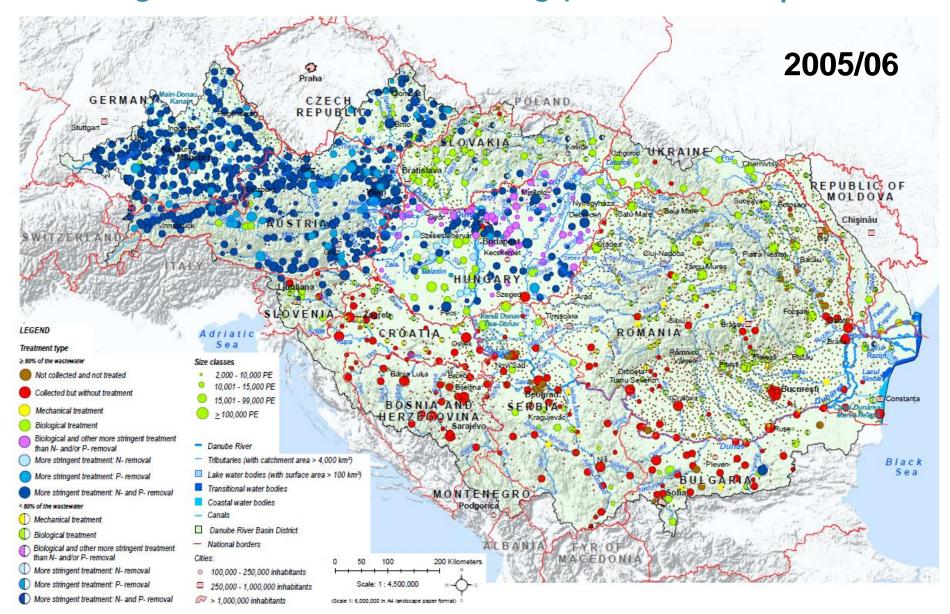
How can these be achieved through coordinated national measures ?

Basin-wide Coordination of Restoration Measures: Adopted Ecological Prioritisation Approach

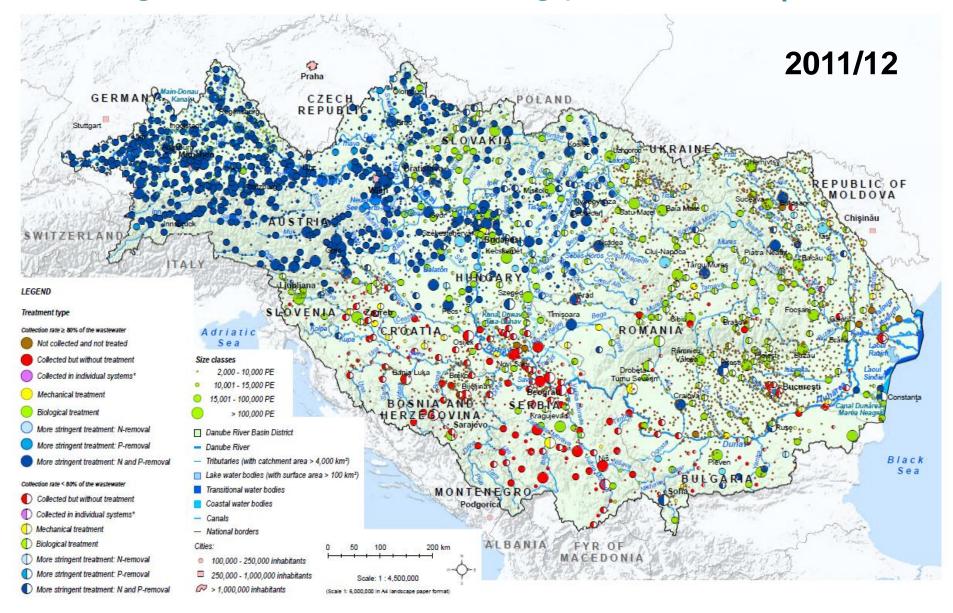


This ICPDR product is based on national information provided by the Contracting Parties to the ICPDR (AT, BA, BG, CZ, DE, HR, HU, MD, RO, RS, SI, SK, UA) and CH, except for the following: EuroGiobalMap v2.1 from EuroGeographics was used for national borders of AT, CZ, DE, HR, HU, MD, RO, SI, SK and UA; ESRI data was used for national borders of AL, ME, MK; Shuttle Rader Topography Mission (SRTM) from USGS Seamless Data Distribution System was used as topographic layer, data from the European Commission (Joint Research Center) was used for the outer border of the DRBD of AL, IT, ME and PL.

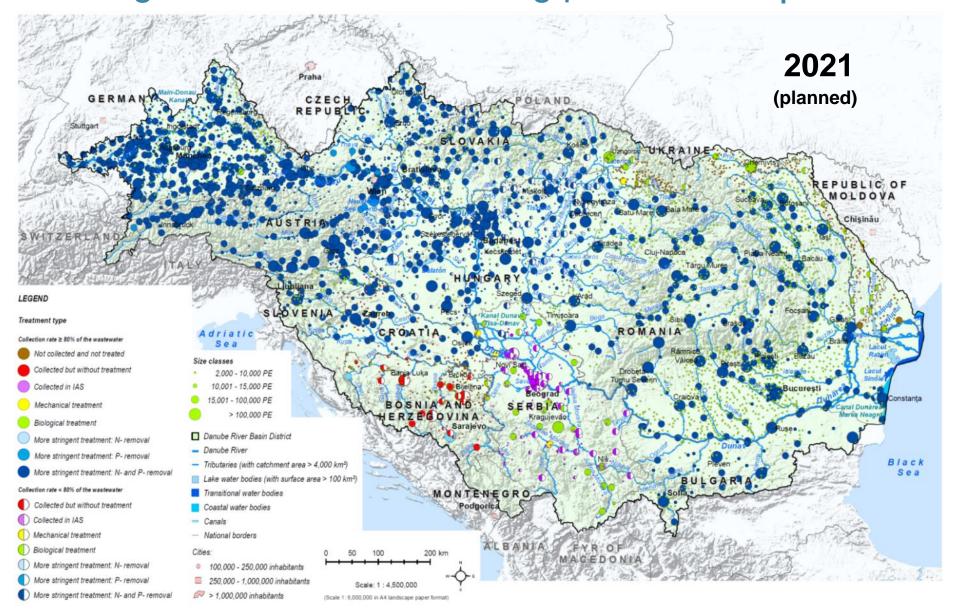
From red to blue: Treating wastewater – Reducing point source pollution



From red to blue: Treating wastewater – Reducing point source pollution



From red to blue: Treating wastewater – Reducing point source pollution



Danube RBM Plan Basin-Wide Implementation

 No legal enforcement for international level to implement but on national level. Hence:

icpdr i

ction

- Ensure functioning cooperation mechanisms
- Functioning implementation link international-national level
- Clear guidance and steering from international level
- How can/must implementation be checked ?
 - Through the respective national RBM Plans: **Role of EC !**
 - Evaluation of implementation success (international DRBM Plan)
 - Through exchange in the ICPDR Expert Groups and mechanism

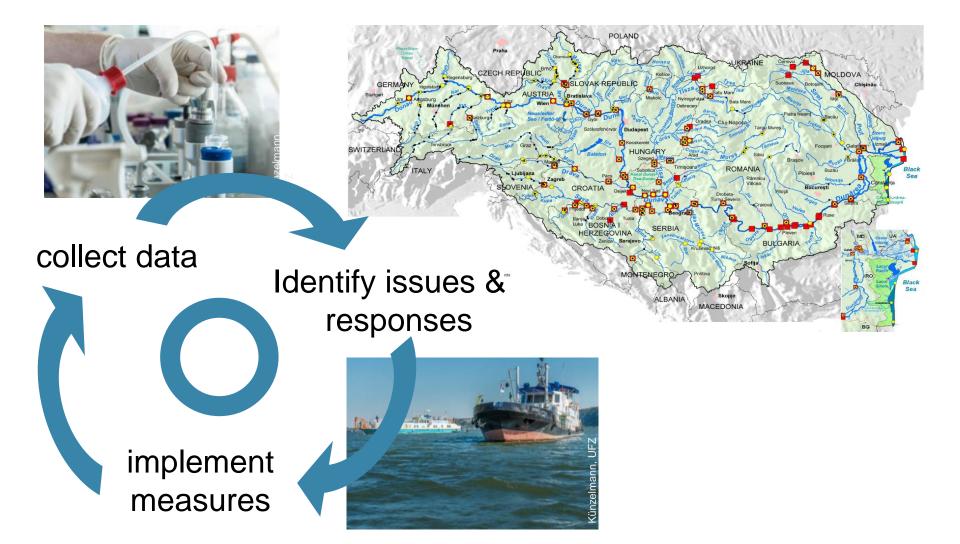
International implementation priorities differ from national ones (vice versa) **Coordination in both directions is crucial for integrated success**





Data Handling and Sharing for the Danube RBM Plan

icpdr iksd Linkage of International/National Level ternational **Basin-Wide Data Handling/Sharing** Commission for the Protection of the Danube River der Donau



Kommission

Linkage of International/National Levels Basin-Wide Data Handling/Sharing

Data sharing is a delicate issue in any large basin

icpdr

GENERAL TROUBLE SHOOTING:

Issue 1: Countries collect data with different methodologies
Issue 2: Data is not shared on basin-wide level
Issue 3: Country has reporting obligations to several bodies (e.g. ICPDR & EU) and formats vary
Issue 4: Data does not exist e.g. due to lack of resources
Issue 5: Data is there, but country objects to publication

Each issue has its causes and solutions. However, all issues have in common: Perfect is the enemy of good! Perfection needs time...

Linkage of International/National Level Conclusions



- Most large river basins cross borders: inter-state or international !
- A 'simple' river basin does not exist all are complex
- Each river basin holds specific
 - Natural characteristics
 - Water uses and pressures
 - Impact patterns
 - Cooperation frameworks
 - River Basin Management issues, approaches and challenges
- Integration of factors and features is important BUT
 - Focus on **most** important issues for management and implementation
 - Often: The more issues, the more diffuse is the outcome

There is not ONE single rule or template for RBM of large basins Tailor made approaches for each basin are needed – use inspiring examples

Linkage of International/National Level Conclusions

Cooperation between the international and national level is crucial

icpdr ikso

zum Schutz

der Donai

for the Protection

of the Danube River

- Can make RBM successful on both sides
- Realise joint benefits
- Clear strategies and cooperation mechanisms need to be in place
- Identify joint aims and management issues for basin-wide level
 - Define clear aims and management objectives to be achieved
 - Implementation: Ideally set priorities for basin-wide scale
 - Check achievement status over time
- Bring together the two groups of
 - decision/policy makers and
 - technical experts through international expert groups

Creation of an enabling environment and agreed basin-wide/joint aims can help targeted cooperation across borders



Thank you very much!

ICPDR Secretariat / Vienna International Centre, D0412 / P.O. Box 500 / 1400 Vienna / Austria Phone +43 1 26060-5738 / Fax +43 1 26060-5895 / icpdr@unvienna.org / www.icpdr.org

