

Wetlands and the Danube River Basin Management Plan/Joint Programme of Measures



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CONTENT



- ⇒ Rivers and wetlands – general concept
- ⇒ WFD & DRBM Plan & Wetlands
- ⇒ Results of the Danube Basin Analysis
- ⇒ Danube River Basin Management Plan
 - ⇒ Steps towards the JPM
 - ⇒ Vision/management objectives for wetlands

Concepts of River Ecology

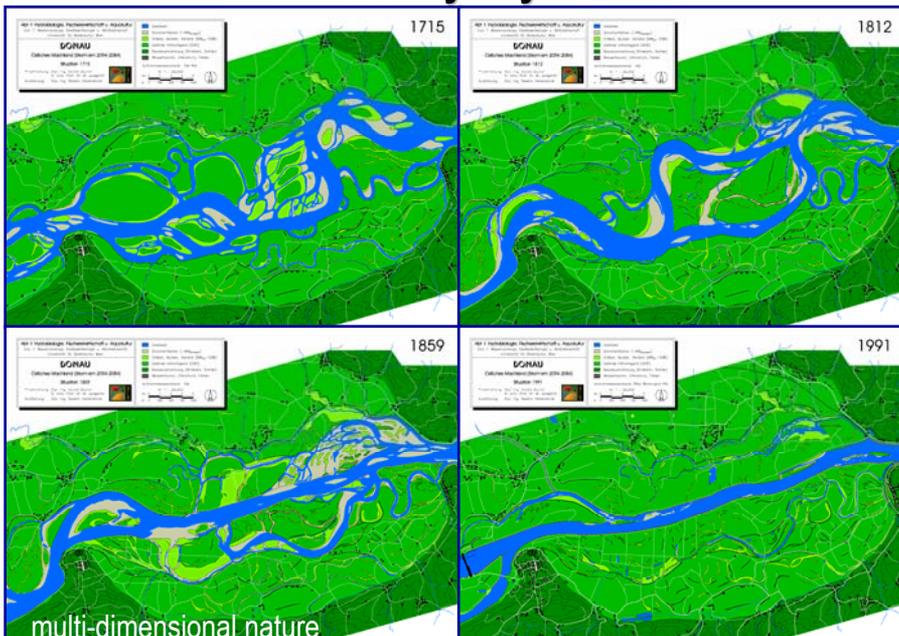
Connection wetlands/floodplains

- multidimensional landscape - systems
- highly dynamic nature
- disturbances key element
- complex connectivity conditions
- heterogeneous habitat complex
- shifting mosaic, steady state
- outstanding high biodiversity

multi-dimensional nature



Connectivity / dynamics



Rivers & Wetlands



Functioning dynamics between riverine systems and connected wetlands do have a positive effect on the ecological status of rivers



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EU WFD & Danube River Basin Management Plan



ICPDR – River Basin Management



EU Water Framework Directive

- ⇒ implementation = highest priority
- ⇒ obligatory for all EU MS
- ⇒ obligatory for all EU Accession Countries
- ⇒ all other Danube states committed themselves to implement (Sofia, December 2000)



Objectives Danube River Protection Convention

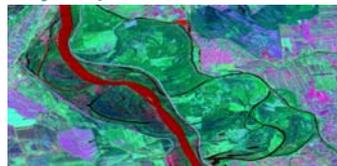
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WFD & Wetlands



- ⇒ **Water Framework Directive is no Wetland Directive**
 - ⇒ wetlands are addressed in very specific way
 - ⇒ if negative effect on water body – part of WFD
 - ⇒ protected areas
- ⇒ EC CIS document
- ⇒ ICPDR Issue Paper on wetlands for the DRB
- ⇒ National legislation



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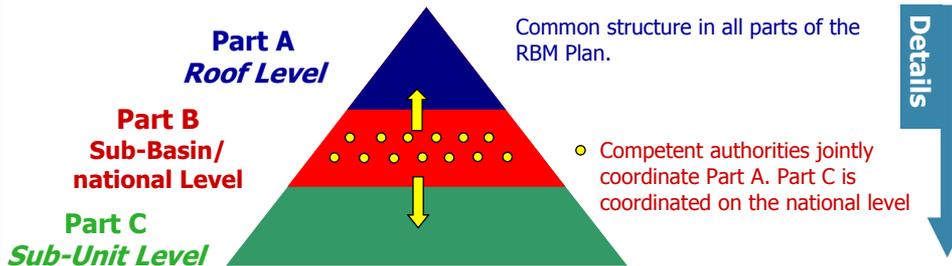
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Danube River Basin Management Plan



.....has to be compiled by 2009/10

good coordination mechanisms and a clear strategy including timelines are needed



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RBM Plan – 4 Phases



⇒ PHASE I: Identify Competent authorities

⇒ PHASE II: Danube River Basin Analysis

COMPLETED

⇒ PHASE III: WFD compliant monitoring network

COMPLETED

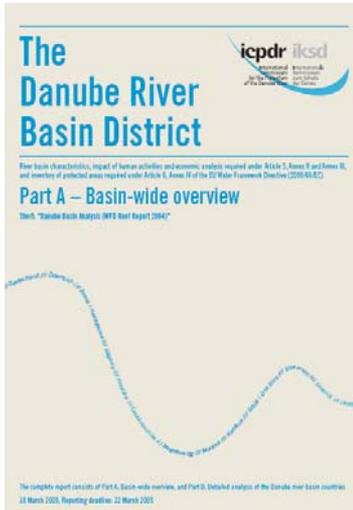
⇒ PHASE IV: Final RBM Plan

CURRENTLY PERFORMED

TO BE COMPLETED 12/2009

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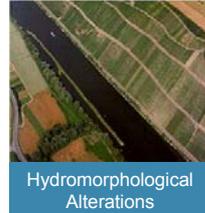
Danube Basin Analysis



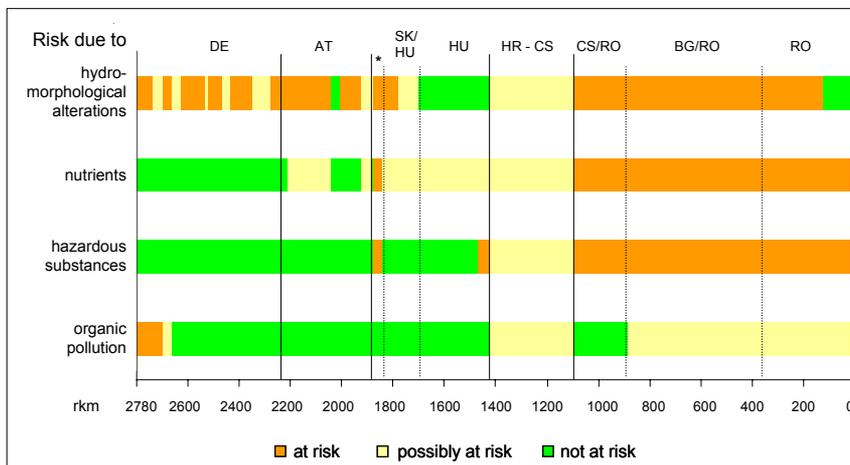
- ⇒ First comprehensive analysis of the entire Danube River Basin
- ⇒ Basis for any future river basin management planning
- ⇒ Identification of significant water management issues

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Significant Water Management Issues



Identification Significant Water Management Issues



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Hydromorphological Alterations Pressures

Morphological Alterations

- ⇒ Interruption of longitudinal continuum
- ⇒ Interruption of lateral connectivity of rivers

Hydrological Alterations

Other hydromorphological alterations



Hydromorphological Alterations **icpdr iksd**

International Commission for the Protection of the Danube River / Internationale Kommission zum Schutz der Donau

Drivers

Key Drivers

Hydropower generation

Flood defence

Navigation



Other Drivers

Water abstraction

Gravel abstraction

Recreational activities



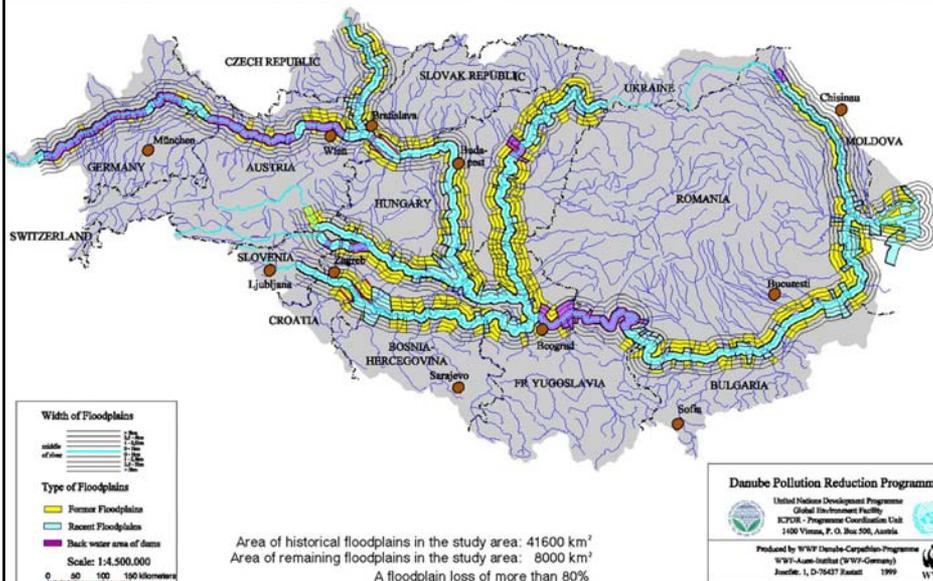
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Impact HYMO Alterations Wetland Loss

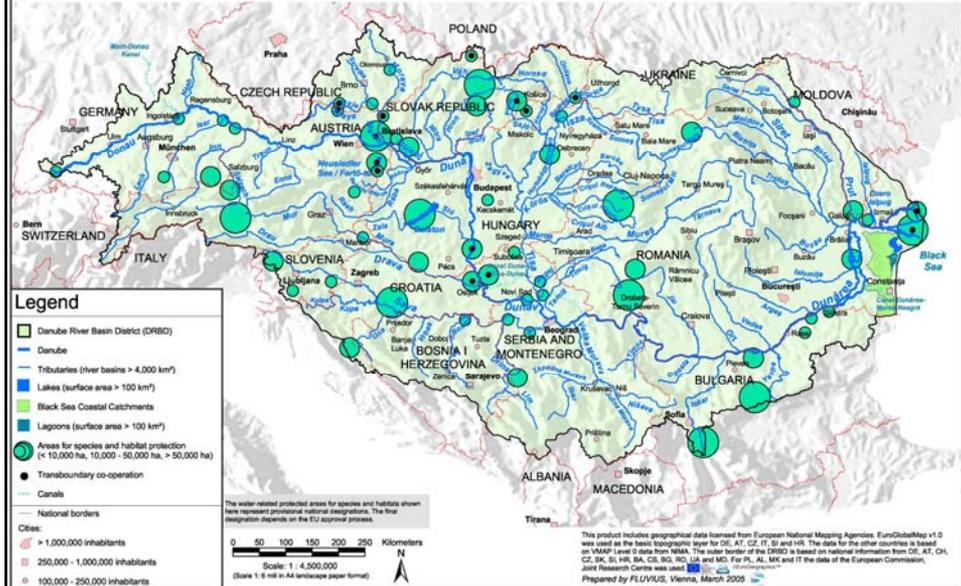
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Danube River Basin District

Map 16: Important Water-related Protected Areas for Species and Habitat Protection



WELFARE AND THE DROMO FRACTION PROGRAMME OF MEASURES
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Danube River Basin Management Plan & WFD



INTEGRATED DRBM PLAN



- ⇒ Development of **Joint Programme of Measures (JPM)**
 - ⇒ largely based on national measures
 - ⇒ measures on supra-national level
- ⇒ **Basin wide approach**
 - ⇒ address issues which are not dealt with in same way on national level (e.g. nutrient management)
 - ⇒ integrated approach
- ⇒ **Long term visions**
 - ⇒ definition of management objectives on basin wide scale

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DRBM PLAN Steps



.....towards the final Danube RBM Plan

- ⇒ Issue Papers for all Significant Water Management Issues
 - ⇒ Hydromorphological Alterations incl. wetlands
- ⇒ Document on SWMI
 - ⇒ First outline of DRBM Plan/Joint Programme of Measures (JPM)
 - ⇒ Publication end 2007
- ⇒ Inclusion into DRBM Plan/JPM for implementation

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INTEGRATED DRBM PLAN



.....is the aim.

- ⇒ Achievement of environmental objective:
good ecological/chemical status
- ⇒ **Holistic approach**
 - ⇒ Integration of RBM with wetland management
- ⇒ Consider all functions, uses, pressures/impacts and future infrastructure projects

Integration of DRBM Plan with flood management.

Effect on wetland management

Visions & Management Objectives



Development of
visions and **management objectives**
for DRBM Plan to achieve WFD objectives

- ⇒ operational and describe steps towards environmental objectives
in DRB (basin wide scale)
- ⇒ described in quantitative, semi-quantitative, verbal way
- ⇒ bridge gap between national and international level
- ⇒ help illustrate implementation success = criteria

Visions & Management Objectives



Wetlands and Floodplains

Vision development for lateral connectivity in the DRB

....will lead to definition of concrete management objectives

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Wetland Vision Example



- ⇒ Development of **semi-quantitative objectives**
 - ⇒ 80% wetland loss – management objective indicates aim for future work and financing needed to reconnect a specific number/area (ha)/percentage of wetlands/floodplains
- ⇒ Inventory of disconnected wetlands/floodplains
- ⇒ Inclusion **flood retention** and **pollution reduction**
- ⇒ Consideration of **'no net loss' principle**
 - ⇒ Wetlands should be conserved whenever possible. If wetland areas are converted for other uses → offset through restoration and creation of other wetlands.
- ⇒ **Priority setting** of wetland functions towards integrated RBM Plan

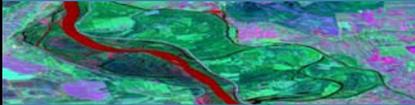
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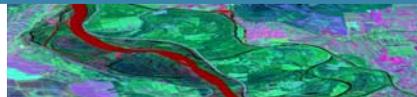
Vision, JPM and Wetlands



Restoration Potential in the middle and lower Danube? Priorities?



Semi-quantitative management objectives?



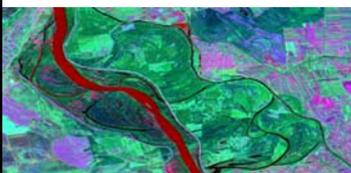
Vision?

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Questions



- ⇒ Which measures need to be taken in wetlands to improve riverine status?
- ⇒ What key issues need to be included in the DRBM Plan vision?
- ⇒ What are the management objectives?
- ⇒ What are the priorities of functions and measures?



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THANK YOU FOR YOUR ATTENTION!



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