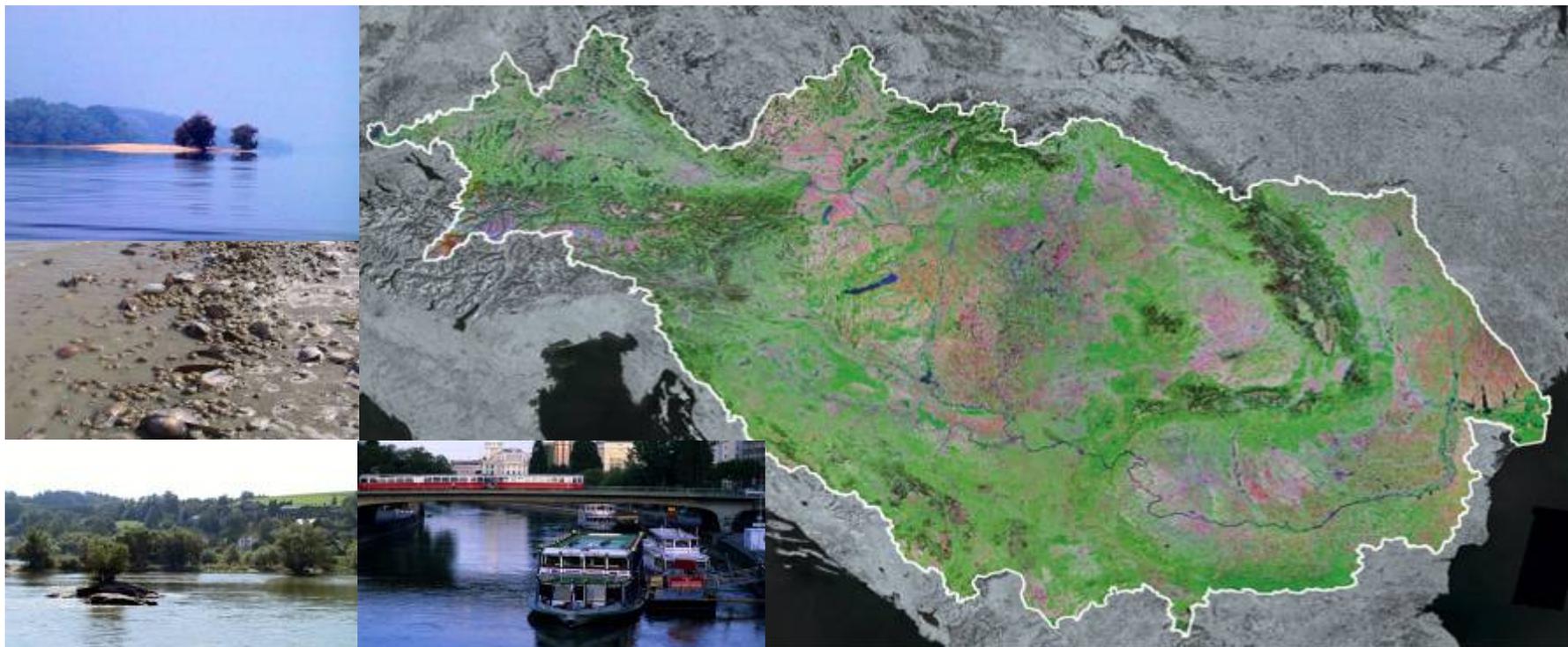


EU Water Framework Directive – Implementation in the Danube River Basin



Follow-up Workshop Joint Statement

Navigation – Environment DRB

28 – 29 January 2009, Budapest (HU)

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CONTENT



-
- ⇒ EU WFD – overview
 - ⇒ Danube River Basin Management Plan
 - ⇒ Overview/aims
 - ⇒ Preliminary results
 - ⇒ Significant Water Management Issues
 - ⇒ Implications for navigation
 - ⇒ Pressures through navigation on environment
 - ⇒ Future steps

EU

Water Framework Directive

icpdr iksd

International
Commission
for the Protection
of the Danube River

Internationale
Kommission
zum Schutz
der Donau



- ⇒ EU WFD came into force December 2000
- ⇒ Sets frame for European water policy
- ⇒ Innovation = catchment approach
- ⇒ Defines environmental objectives to be reached through management plans on river basin scale

Secure sustainable water management

EU

Water Framework Directive

icpdr iksd

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Commission
for the Protection
of the Danube River

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- ⇒ Protection of **ALL** waters
- ⇒ **Good ecological** and chemical **status** by 2015
 - ⇒ Rivers, transitional and costal waters
 - ⇒ Lakes
 - ⇒ Groundwater
- ⇒ **No degradation** of water status allowed
- ⇒ Reduction/elimination of hazardous substances



EU WFD & Danube River Basin Management Plan



EU WFD and the Danube River Basin



EU WFD

- ⇒ 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)

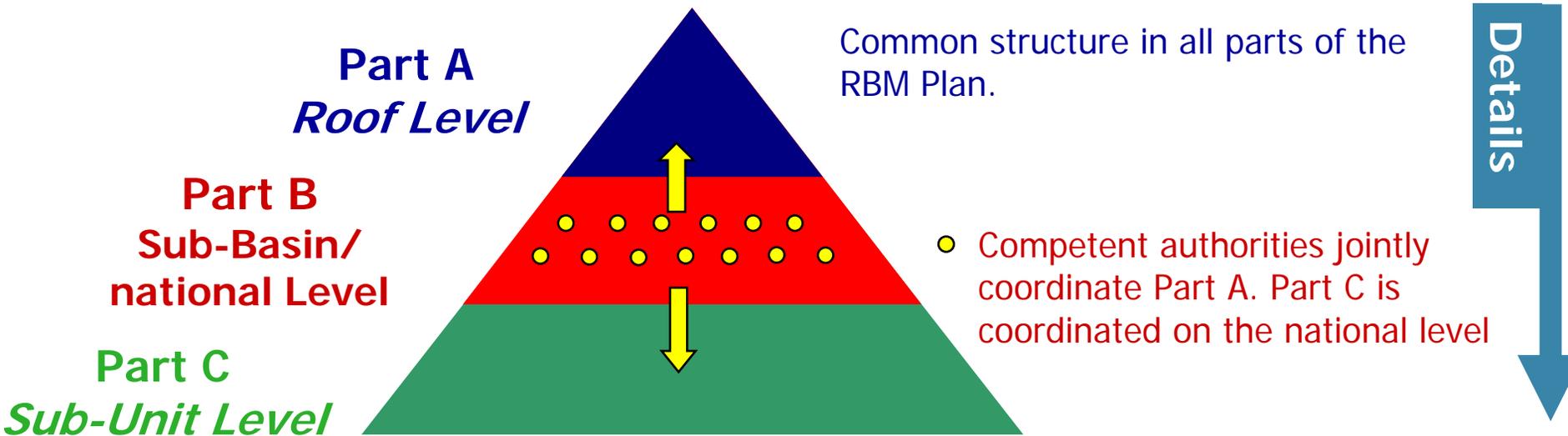


Danube River Basin Management Plan



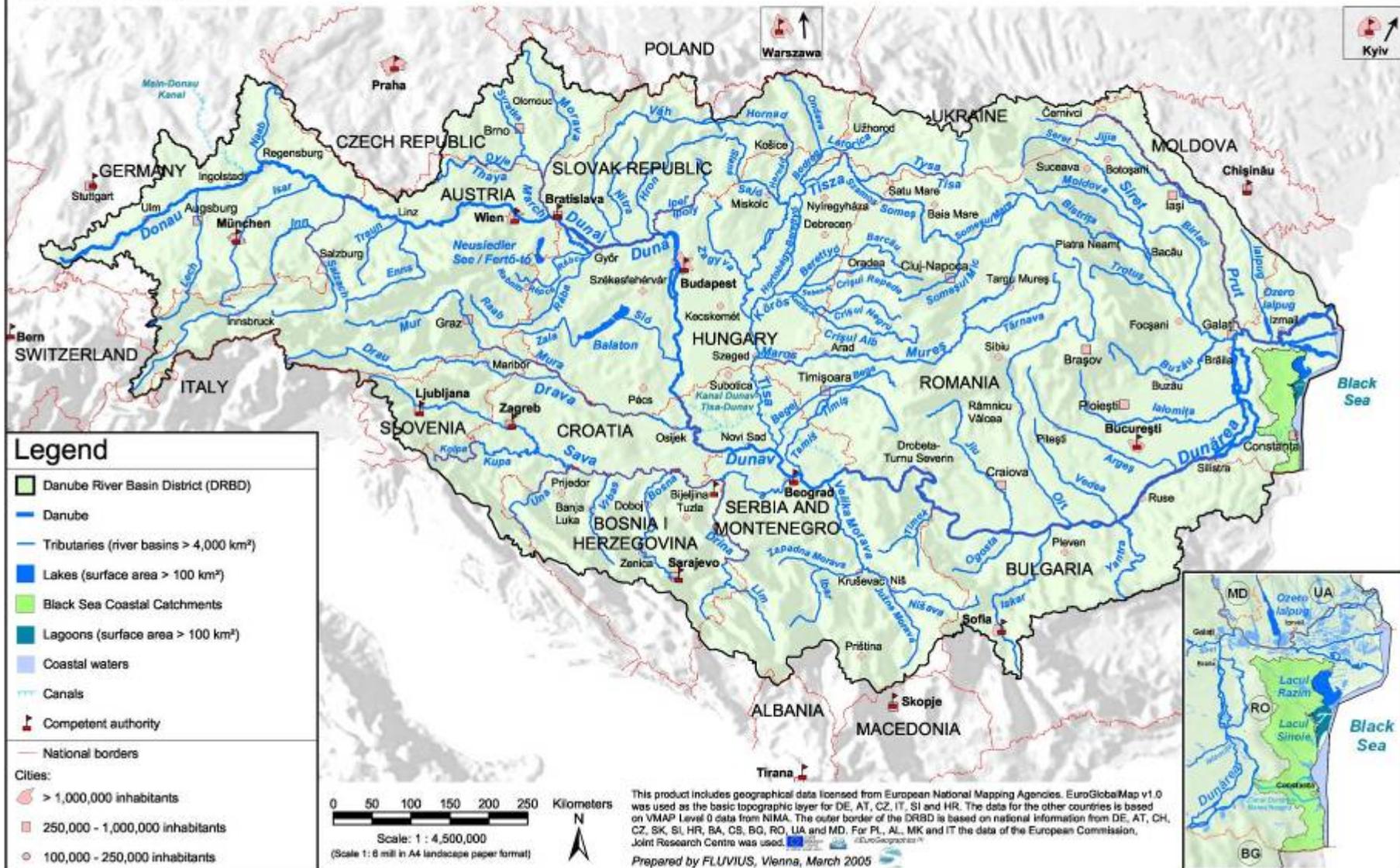
and Joint Programme of Measures

.....has to be compiled by 2009/10 according to EU WFD
good coordination mechanisms and a clear strategy including
timelines



Danube River Basin District

Map 1: Overview



Danube Basin Analysis 2004

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The Danube River Basin District

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River basin characteristics, impact of human activities and economic analysis required under Article 5, Annex II and Annex III, and inventory of protected areas required under Article 6, Annex IV of the EU Water Framework Directive (2000/60/EC)

Part A – Basin-wide overview

Short: "Danube Basin Analysis (WFD Root Report 2004)"



The complete report consists of Part A: Basin-wide overview, and Part B: Detailed analysis of the Danube river basin countries
18 March 2005, Reporting deadline: 22 March 2005

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

Four Significant Water Management Issues

.....have been identified for DRB surface waters



Organic
Pollution



Nutrient
Pollution



Hazardous
Substances Pollution



Hydromorphological
Alterations

**Main drivers:
navigation, hydropower, flood defence**

Danube River Basin Management Plan



Visions and Management Objectives

for all **Significant Water Management Issues** and
Future Infrastructure Projects to achieve the
WFD environmental objectives on basin-wide scale

JOINT PROGRAMME OF MEASURES

for implementation by 2015

WFD and Danube RBM Plan

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**What does it all
mean and imply
for navigation?**



.....it means despite development & new projects

- ⇒ WFD is an EU legislation
- ⇒ Achieve and ensure **WFD environmental objectives**
 - ⇒ *Good ecological status*
 - ⇒ *Good ecological potential* in case of HMWB
- ⇒ Achievement of **management objectives of the DRBM Plan**
- ⇒ **No deterioration of water status**
- ⇒ Performance of SEAs and EIAs

.....it does **not** mean



.....that no future development can take place in the navigation sector

Application of appropriate approaches
INTEGRATED PLANNING
to enable navigation development and
sustainable management of rivers to achieve
all required environmental objectives

Pressures of Navigation on the Environment



Possible HYMO Alterations through Navigation



Interruption of in-stream habitats

Dis-connection of wetlands

Hydrological alterations

Interruption of river continuity



Current pressures

Future pressures

Can impact the water status



Key Impacts on Ecology

decline of
species
diversity

decline of
species
abundance

Habitat loss and
alteration

hindrance of species
migration & decline
of natural
reproducing fish
populations

altered
population
composition

ECOLOGICAL STATUS DEGRADATION

Danube River Basin District

Map 14: Risk of failure to reach the Environmental Objectives - Hydromorphological Alterations

Product of:
ICPDR (International
Commission for the
Protection of the
Danube River), Vienna



Objective: Ensure/achieve good ecological status

Measures need to be taken

Danube River Basin District

Map 10: Important Heavily Modified Surface Waters (provisional identification)

Product of:
ICPDR (International
Commission for the
Protection of the
Danube River), Vienna



HMWB: Ensure/achieve good ecological potential

(slight difference to *GES*)

Measures need to be taken

Consequence & DRBM Plan



HYMO Alterations, Navigation & DRBM Plan

A close-up photograph of a person's eye, which is strikingly blue. In the background, several small, glowing Earth globes are visible, suggesting a focus on global or environmental issues.

**Relevant Visions/Management Objectives
to guide us toward
Joint Programme of Measures**

- ⇒ Dis-connection of wetlands/floodplains
- ⇒ River and habitat continuity interruption
- ⇒ Hydrological alterations
- ⇒ Future infrastructure projects

Future Steps



Future Steps

Navigation - Environment



- ⇒ Mutual information exchange and understanding of overall frame
 - ⇒ Navigation needs
 - ⇒ Measures for navigation development
 - ⇒ RBM framework/legal requirements
 - ⇒ Achievement of environmental objectives
 - ⇒ Environmental basic conditions
 - ⇒ RBM visions and management objectives

Future Steps

Navigation - Environment



- ⇒ Integrated planning approaches
 - ⇒ straight from the beginning
 - ⇒ for the performance of SEAs and EIAs
- ⇒ Integrated planning is a **hard process** BUT ensures
 - ⇒ win-win solutions for both navigation development and the environment and
 - ⇒ ensures fullfilment of legal requirements

**Joint Statement – Basis is here
IMPLEMENTATION NEXT!**

THANK YOU!

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