

NWRM in Flood Management

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&

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Flood risk management in the Danube Basin/Danube Region

Danube Basin



Danube Region

International
Commission for the
Protection of the
Danube
River

- FP EG

European
Union
Strategy for the
Danube
Region

- PA5: To manage environmental risks



How the NWRM are handled

ICPDR FP EG

- 2002 flood →
- 2004 →
- **2009** (2010) →
- FP EG established
- Action Programme for Sustainable Flood Protection in the Danube River Basin
- **Sub-Basin Level Flood Action Programmes**

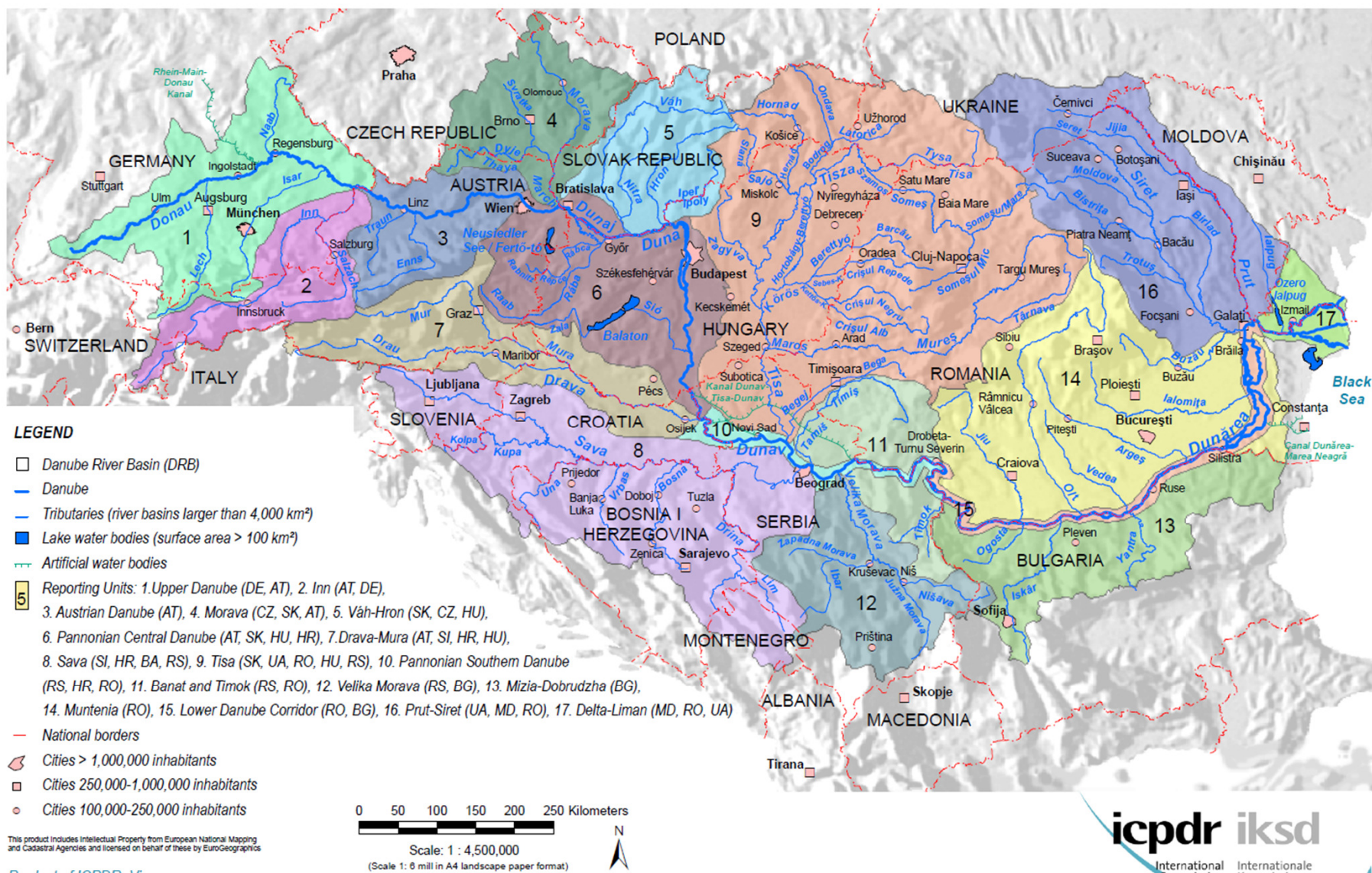
Sub-Basin Level Flood Action Programmes

- 17 Sub-Basins (reporting units)
- One report for each shared sub-basin!
- Common ToC developed

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 - 4.1 Regulation on land use and spatial planning
 - 4.2 Reactivation of former, or creation of new, retention and detention capacities

Danube Flood Protection Reporting Units



28-29/01/2014

Szentendre, 1st Danube Region Workshop

17 Reports on the DANUBIS

28-29/01/2014

Szentendre, 1st Danu



Flood Protection Expert Group

Sub-Basin Level Flood Action Plan - Pannonian Central Danube



//// Deutschland //// Österreich //// Česká republika //// Slovensko //// Magyarország //// Slovenija //// Hrvatska //// Bosna i Hercegovina //// Srbija //// Crna Gora //// România //// България //// Moldova ////

December, 2009

Follow-up

28-29/01/2014

Szentendre, 1st Danu

Report on Achievements in Flood Protection in the Danube River Basin

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

Document number: IC-159
Version: 2010
Date: 22-Nov-2010



EUSDR PA5:

to manage environmental risks

- Targets
 1. Implement Danube wide flood risk management plans - due in 2015 under the Floods Directive
 2. To address the challenges of water scarcity and droughts based on the 2013 update of the Danube Basin Analysis
 3. Update of the accidental risk spots inventory at the Danube River Basin level by 2013



EUSDR PA5

- Actions

1. To develop and adopt one single overarching floods management plan at basin level
2. To support wetland and floodplain restoration as an effective mean of enhancing flood protection, and more generally to analyse and identify the best response to flood risk (including “green infrastructure”)
3. To extend the coverage of the European Floods Alert System (EFAS) system to the whole Danube river basin
4. To strengthen operational cooperation among the emergency response authorities in the Danube countries

EUSDR PA5

- Actions

5. To continuously update the existing database of accident risk spots (ARS Inventory), contaminated sites and sites used for the storage of dangerous substances
6. To develop rapid response procedures and plans in case of industrial accidental river pollution
7. Anticipate regional and local impacts of climate change through research
8. To develop spatial planning and construction activities in the context of climate change and increased threats of floods



EUSDR PA5

- Projects
 - Danube Floodplain (RO + WWF; LoR issued)
 - HU-UA Flood Protection Development on the Tisza River



National projects

- New Vásárhelyi Plan (room for rivers)
 - 11 Flood retention reservoirs (1.5 km³ storage; ~730 km²)
 - Flood plain rehabilitation (removal of invasive species)
 - Widening of the flood plain
- Ukrainian National Plan
 - 41 DRY flood retention reservoirs (semi-natural)
 - “n” polders



Thank you for your attention!