

# Flood Protection under the ICPDR

**icpdr** **iksd**

International  
Commission  
for the Protection  
of the Danube River

Internationale  
Kommission  
zum Schutz  
der Donau



# Flood danger

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Danube River Basin suffered from massive floods in 2002, 2005, 2006 and 2010;

Each year devastating regional floods occur in Danube countries endangering lives and causing human tragedy as well as heavy economic losses.



# ICPDR response to floods

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Action Programme on Sustainable Flood Protection in the Danube River Basin adopted in 2004:

- a) Improvement of flood forecasting and early flood warning systems;
- b) Preparation and coordination of flood action plans in sub-basins;
- c) Common approach in flood risk mapping;
- d) Exchange of expert knowledge.





# ICPDR response to floods

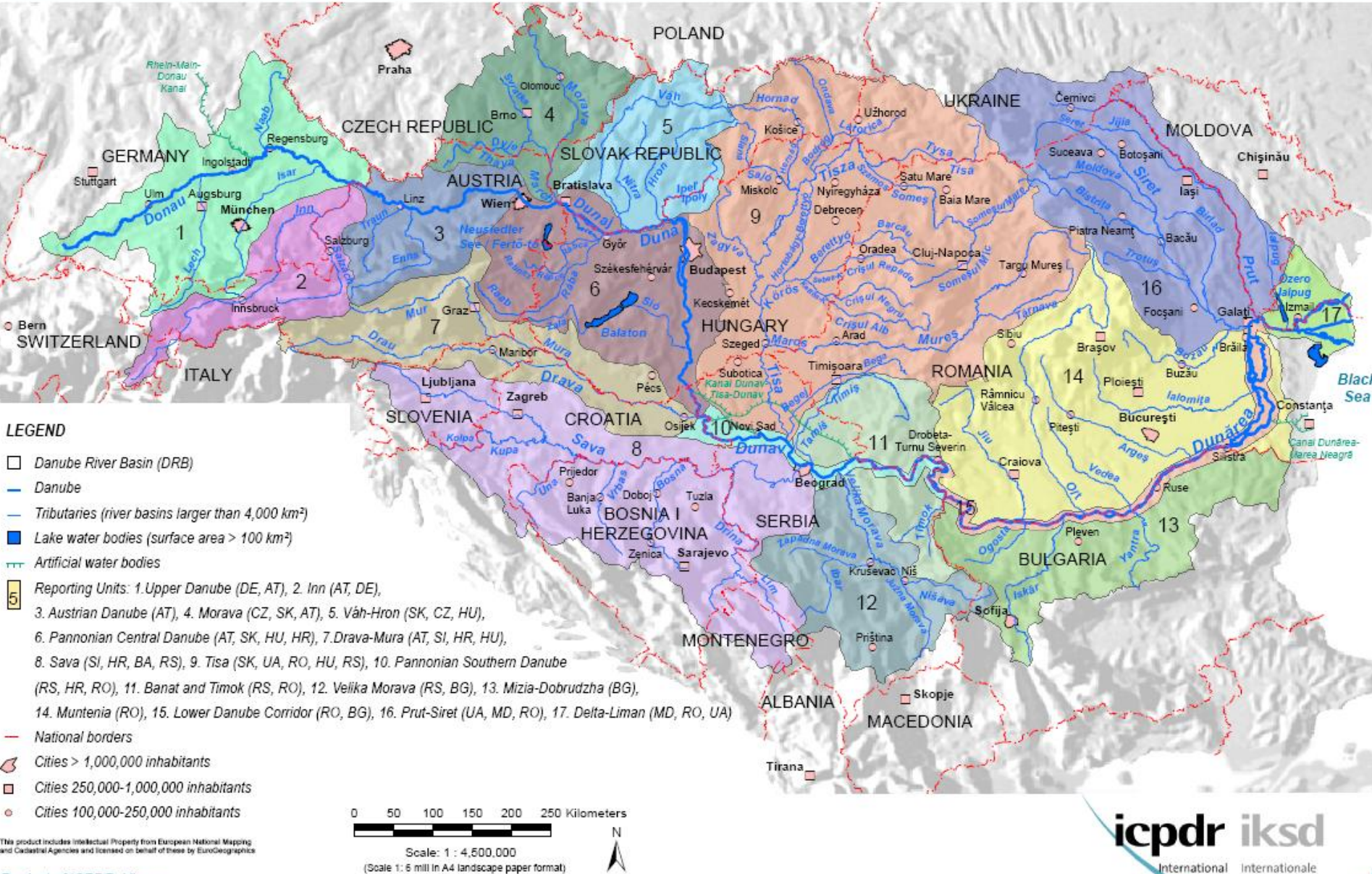
17 flood action plans for the sub-basins in the Danube catchment area prepared in 2009 based on 45 national plans;

Sub-basin plans contain hundreds of measures the Danube countries are going to take to keep their citizens safe against the flood danger;

Preparation process strengthened international cooperation.



# Danube Flood Protection Reporting Units





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# EFD implementation

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## Selection of Units of Management (level B)

- 17 sub-basins were used for FAPs and intended also for EFD;
- However: WFD units are selected for EFD reporting at the national level in most countries (need of joint EFD-WFD reporting in 2015);
- ICPDR at its meeting in 2010 recommended to reconsider using the WFD units for the forthcoming reporting on flood hazard and flood risk maps and flood risk management plans at level B;
- Unless the cooperation structures are already in place the reporting on level B should not follow the 17 sub-basins of the flood action plans;
- This issue needs to be further explored by the FP EG.

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# EFD implementation

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## Concept paper

- Addresses the key aspects of a coordinated implementation of EFD in DRB and shows the ICPDR strategy for this process.
- It is a living document to be regularly updated.

## Links flood risk management - RBM

- Art. 9 EFD requires appropriate steps to be taken to coordinate the application of the EFD with the WFD;
- A list of issues in need for coordination for the implementation of both Directives drafted.

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# Preliminary flood risk assessment (Art. 4&5 EFD)

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- Single roof report will be prepared on level A describing the approaches taken by the countries including the coordination aspects.
- Table of Contents being finalized.
- Report will contain one map showing the areas of potential significant flood risk in the Danube River Basin District.
- Web version of the map will also show the types of floods (sources of flooding only).
- Bavaria only plans to apply the transitional measures.



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# PFRA Report

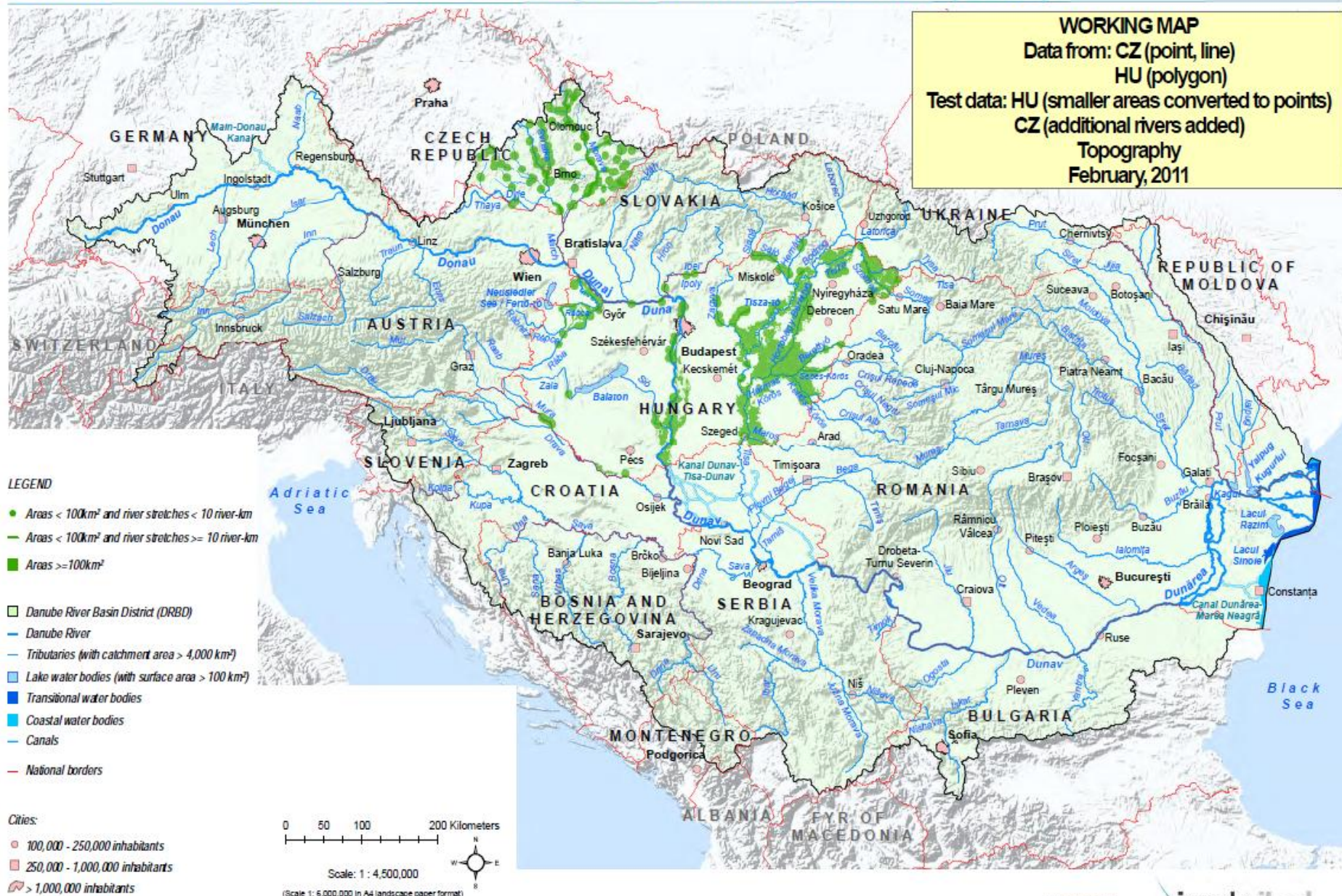
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- Introduction
  - Overall approach and methodology of PFRA
  - Historical floods in the Danube River Basin
  - Potential adverse consequences of future floods
  - APSFR
  - Transboundary coordination & information exchange
  - Supporting transboundary activities
  - Conclusions

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# PFRA map

- The map will use following geometry type:
  - Polygon (Recommended for areas  $\geq 100\text{km}^2$ )
  - Line (Recommended for river stretches  $\geq 50\text{km}$ )
  - Point (Recommended for areas  $<100\text{km}^2$  and river stretches  $<50\text{km}$ ) areas located closer than 50km to each other should be aggregated
- The map will show a status as of September 2011 (i.e., a preliminary version of APSFR) and this will be explained on the map.
- An update of the map is foreseen in early 2012.
- Draft templates prepared

# Danube River Basin District: Preliminary Flood Risk Assessment (PFRA)





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# Flood risk mapping

- EC GIS templates for flood risk mapping will be available in spring 2012 - the FP EG has to review this templates before concluding on reporting on the level A.
- The outcomes of Floodrisk project (report on mapping requirements) will be available by the end of June 2011.
- This report will be a basis for developing the templates for flood risk mapping at the level A.