



Danube Floodrisk

Stakeholder oriented flood risk assessment
for the Danube floodplains

Project presentation

Jointly for our common future

Dr. Mary-Jeanne Adler

A large, faint, light gray watermark logo is visible in the background on the right side of the slide. It is a stylized, multi-pointed star or flower-like shape, similar to the one in the South East Europe logo.

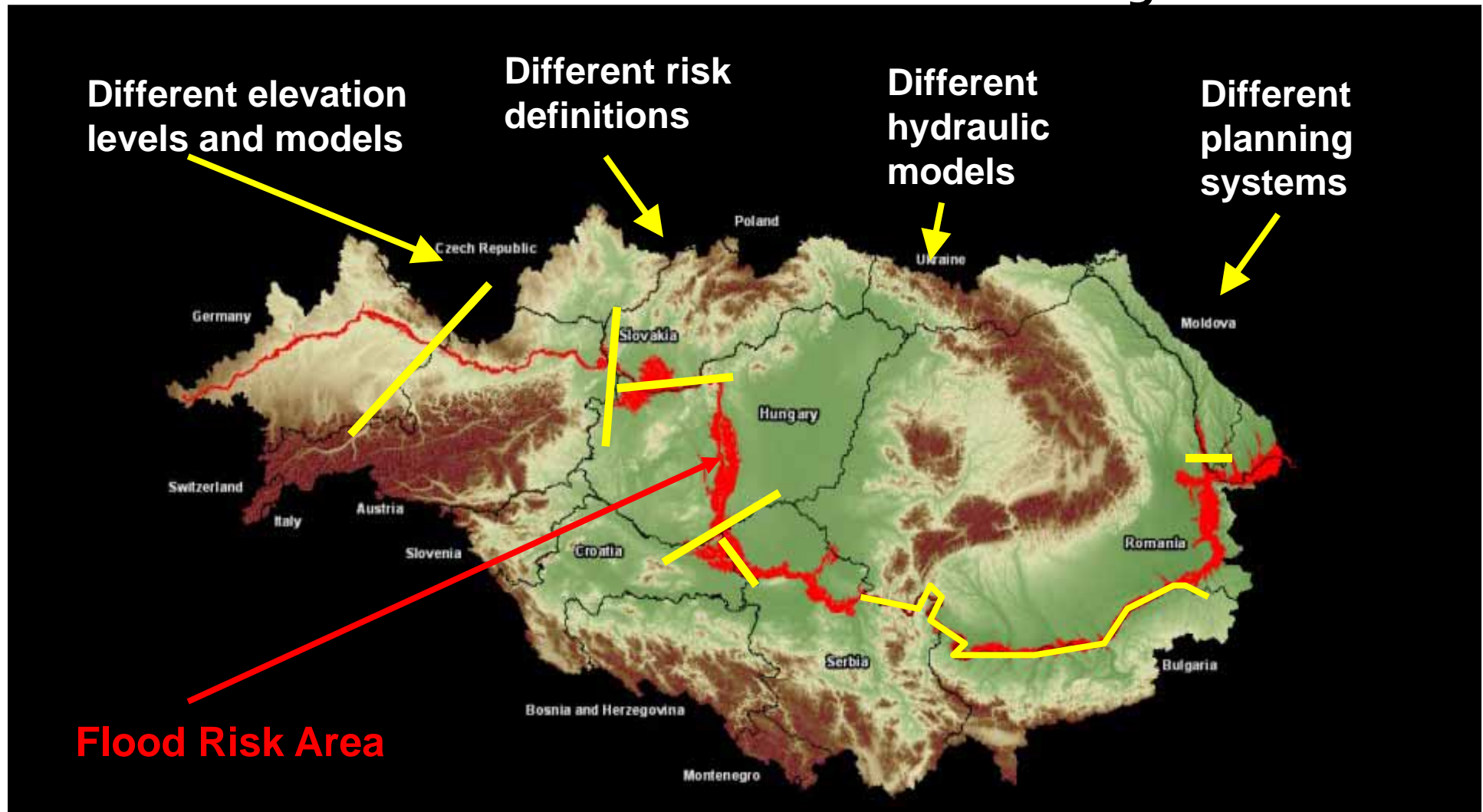
A transnational river requires transnational cooperation ...

Motivation for DANUBE FLOODRISK Project

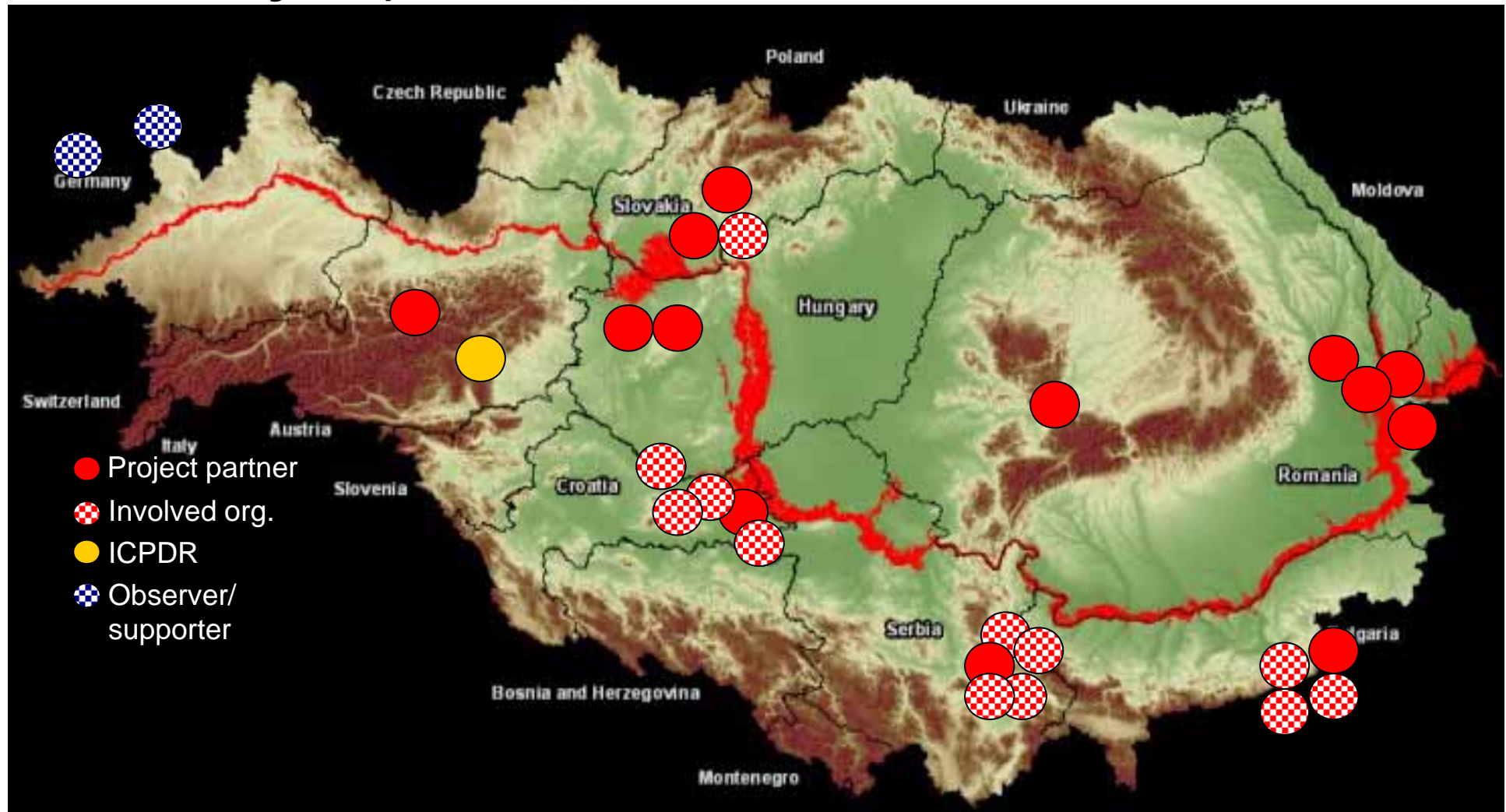
- 1998-2008 South East Europe suffered over 100 damaging floods
- All Danube countries worked on improvements with different
 - Mapping methods
 - Elevation systems
 - Criteria for risk assessment
- Separated approaches in the countries: inefficient and not sustainable



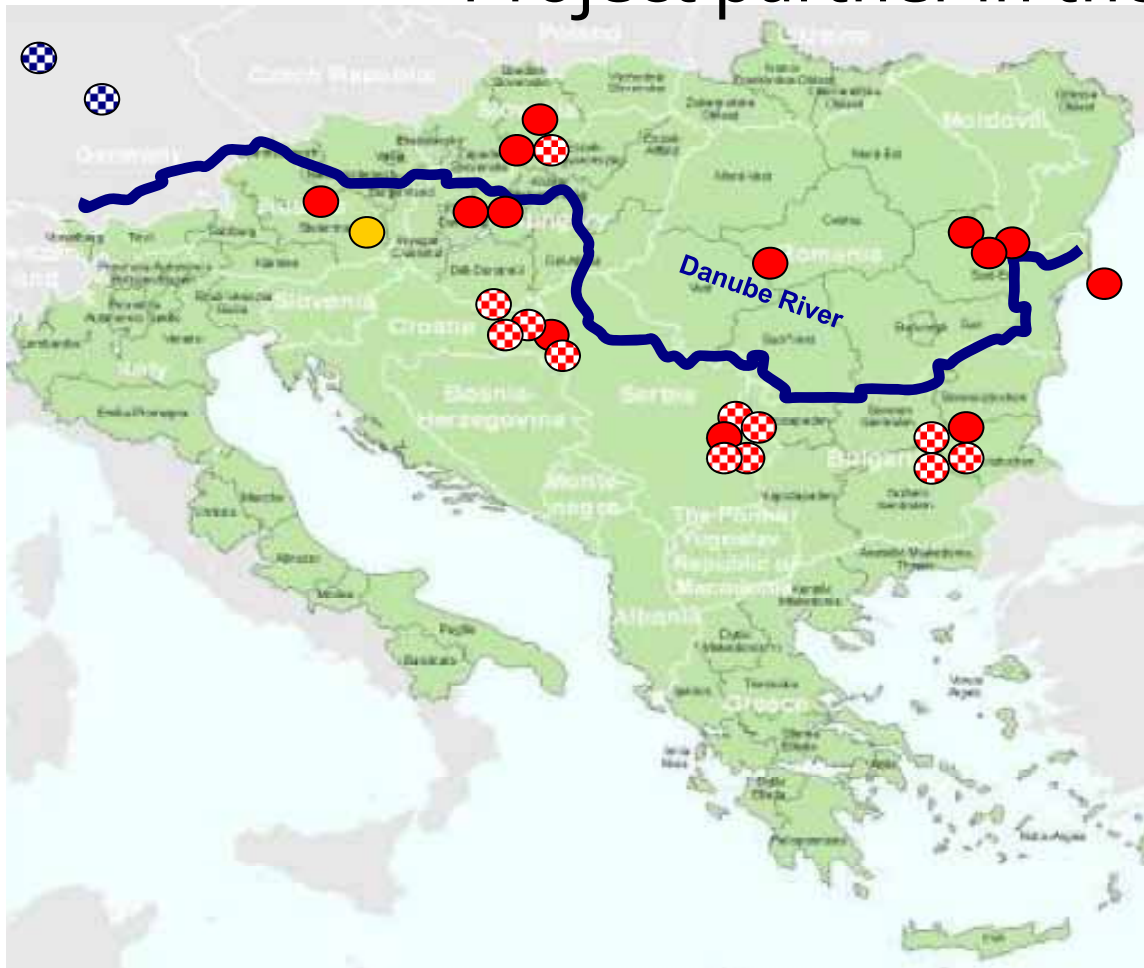
Problem: Borders are barriers for risk management

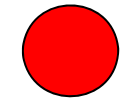
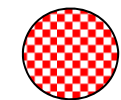
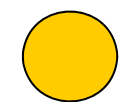



Project partners in the DANUBE River basin



Project partner in the SEES region



-  Project partner
-  Involved org.
-  ICPDR
-  Observer/
supporter



Project Partners –

Lead Partner: Ministry of Environment, Romania

PP1-Federal Environment Agency, Austria

PP2 Via Donau, Austrian Waterway Administration, Austria

PP3- Ministry of Environment and Water, Bulgaria

PP 4- University of Architecture, Civil Engineering and Geodesy, Bulgaria

PP5-Central Directorate for Water and Environment, Hungary

PP6-VITUKI, Hungary

PP 7 -Danube Environmental Forum, Hungary

PP8- National Agency for Environmental Protection and Technical Services, Italy

PP9-Technical University of Civil Engineering from Bucharest, Romania

PP 10-National Administration "Romanian Waters", Romania

PP11-National Research and development Institute for the Danube Delta, Romania

PP12-Centre for Environmentally Sustainable Economic Policy, Romania

PP13 -Slovak Water Management Enterprise, Karloveská 2, 842 17 Bratislava, Slovakia

PP14 -Croatian Waters, Ulica grada Vukovara 220, 10000 Zagreb, Croatia

PP15- Ministry of Agriculture, Forestry and Water Management, Serbia

PP16-"Jaroslav Cerni" Institute for the Development of Water Resources, Serbia

PP17-Public Water Management Company "Srbijavode", Serbia

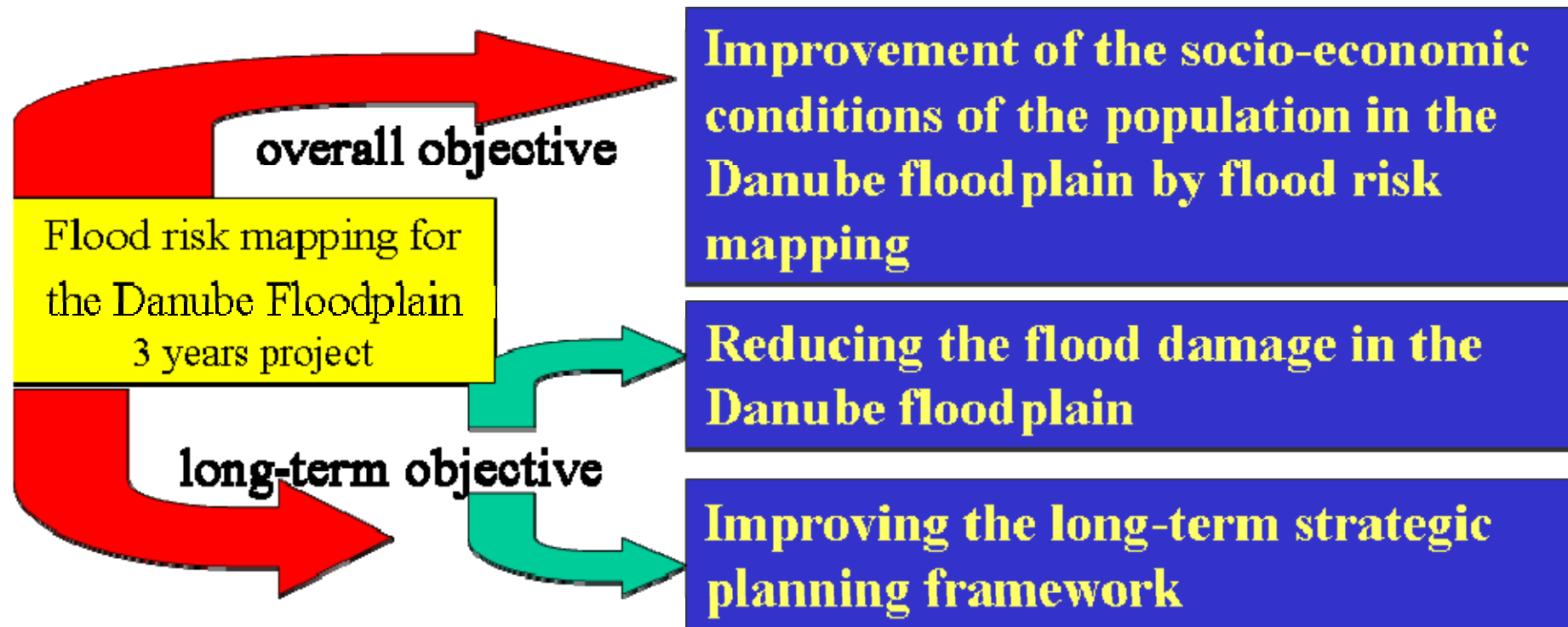
PP18-Public Water Management Company "Vode Vojvodine", Serbia

PP19-Republic Hydrometeorological Service of Serbia, Serbia

Observer Partners: ICPDR, European Commission DG Joint Research Centre, Bavarian Environmental Agency, Regional Council Tubingen,



Objectives of the Danube FLOODRISK project



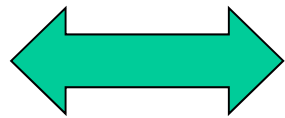
P2: Protection and improvement of the environment

2.1 Improve integrated water management and flood risk prevention

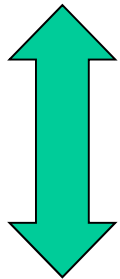
The **purpose** of the area of intervention: development of transnational structures and systems / tools for [...] flood risk prevention.

Dimensions of cooperation

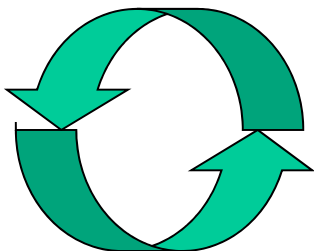
Cooperation in the fields of different



- **between Sectors**
(water management, spatial planning, etc.)
→ **horizontal cooperation**



- **Levels of organisation**
(from local to national actors)
→ **vertical cooperation**



- **Countries**
→ **transnational cooperation**

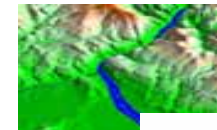
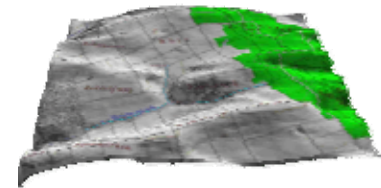


Initiative for the project

- **International Commission for the protection of the Danube River (ICPDR)**
is responsible for coordination
→ but no implementation! → Countries
- **Sept 2008 – workshop in Budapest**
→ common position on “Flood Risk Mapping in the Danube River Basin”
→ fundament of the FLOODRISK project

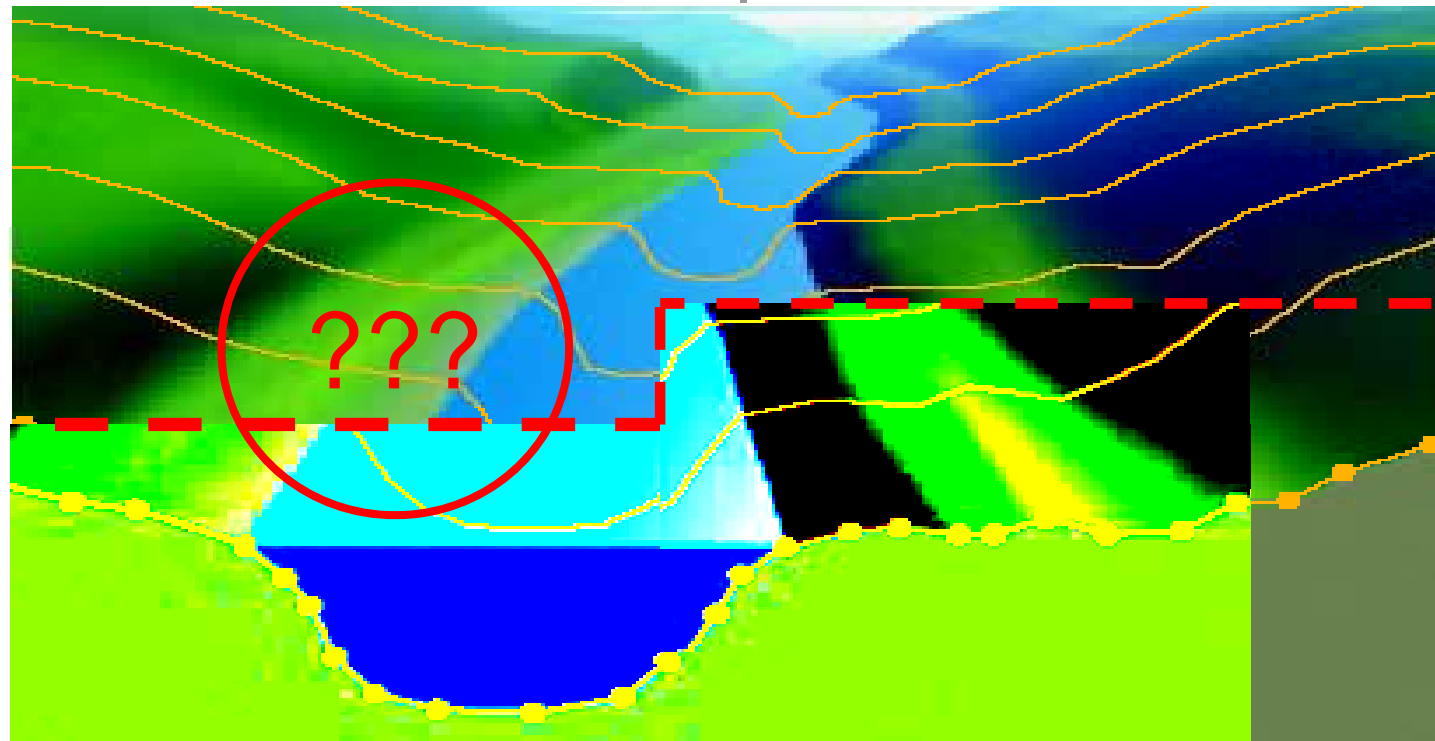
Objectives of the project

- Joint mapping method for flood risk in the Danube countries
- Harmonisation of data sources
- Integration of relevant users and stakeholders
- Involvement of different economic aspects of land use
- Linkage of flood risk mapping
- Ensure provision of maps as basis for planning
- Reflection of the EU Directives



Harmonisation of methods at national borders

**National
Border**



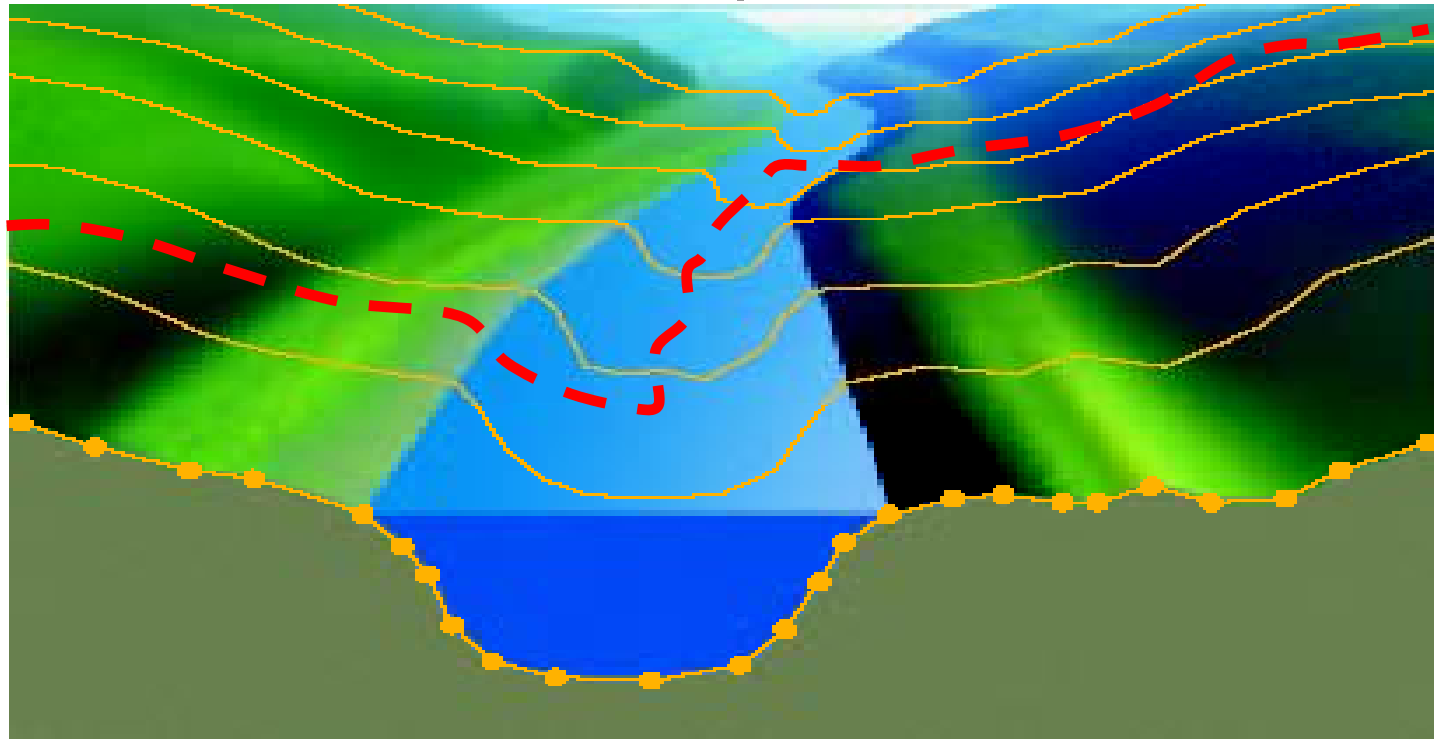


Output 1: Joint digital elevation model



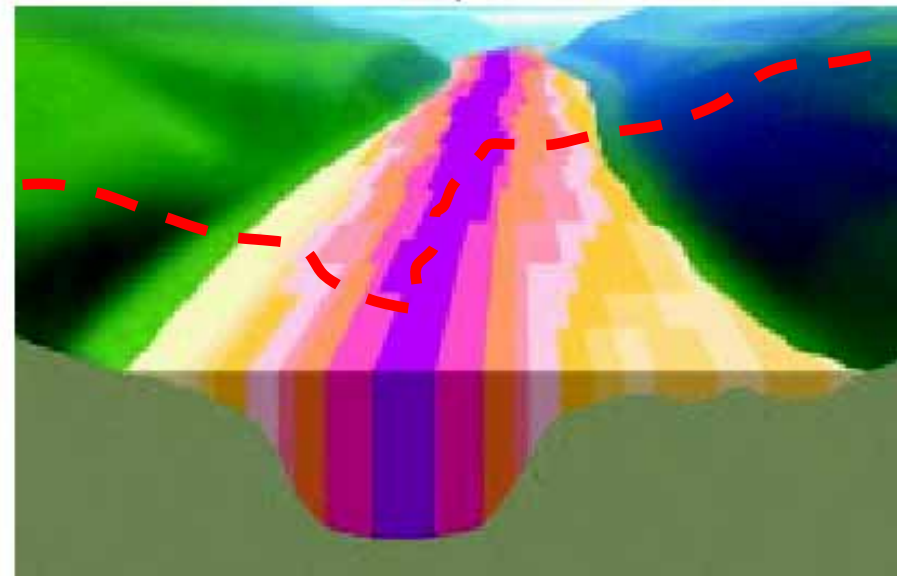
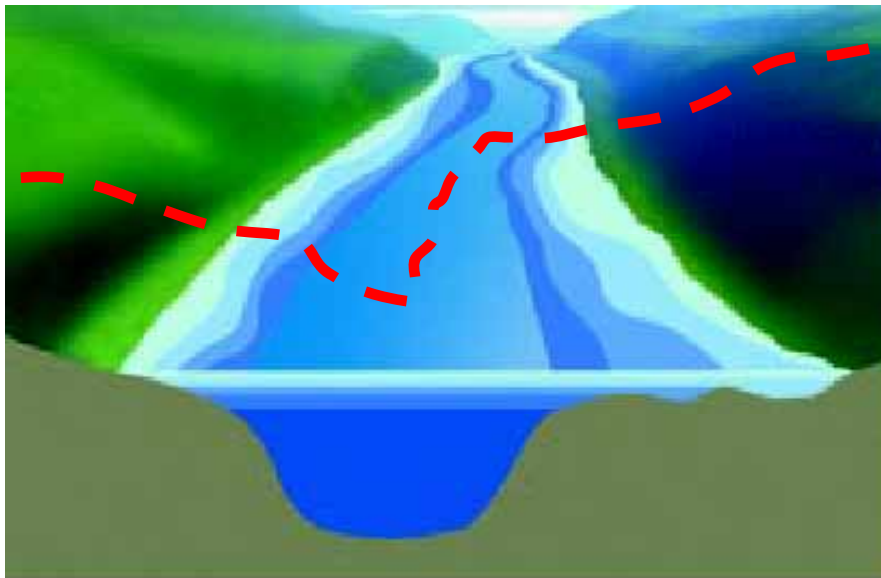
ONE system without national borders

National
Border



Output 2: Flood risk mapping for planning purpose

ONE system without national borders

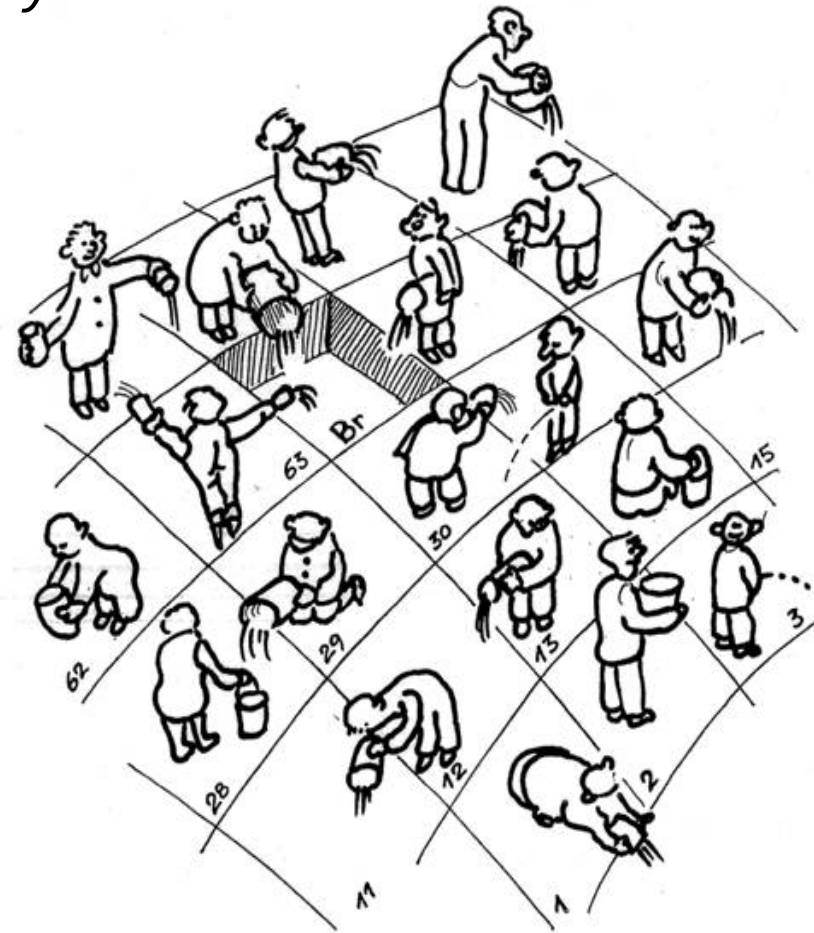


Water levels → flood zones → spatial planning

Output 3: Stakeholder involvement

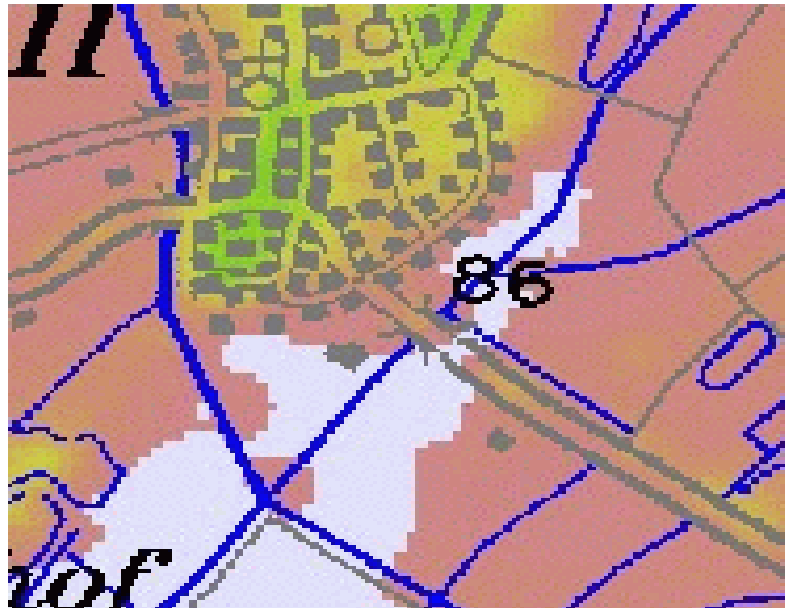
What do you need?

- Municipalities
 - Spatial planning
 - Rescue services
 - Emergency management
 - Insurances
 - NGOs
 - ...
- Demands on map content!

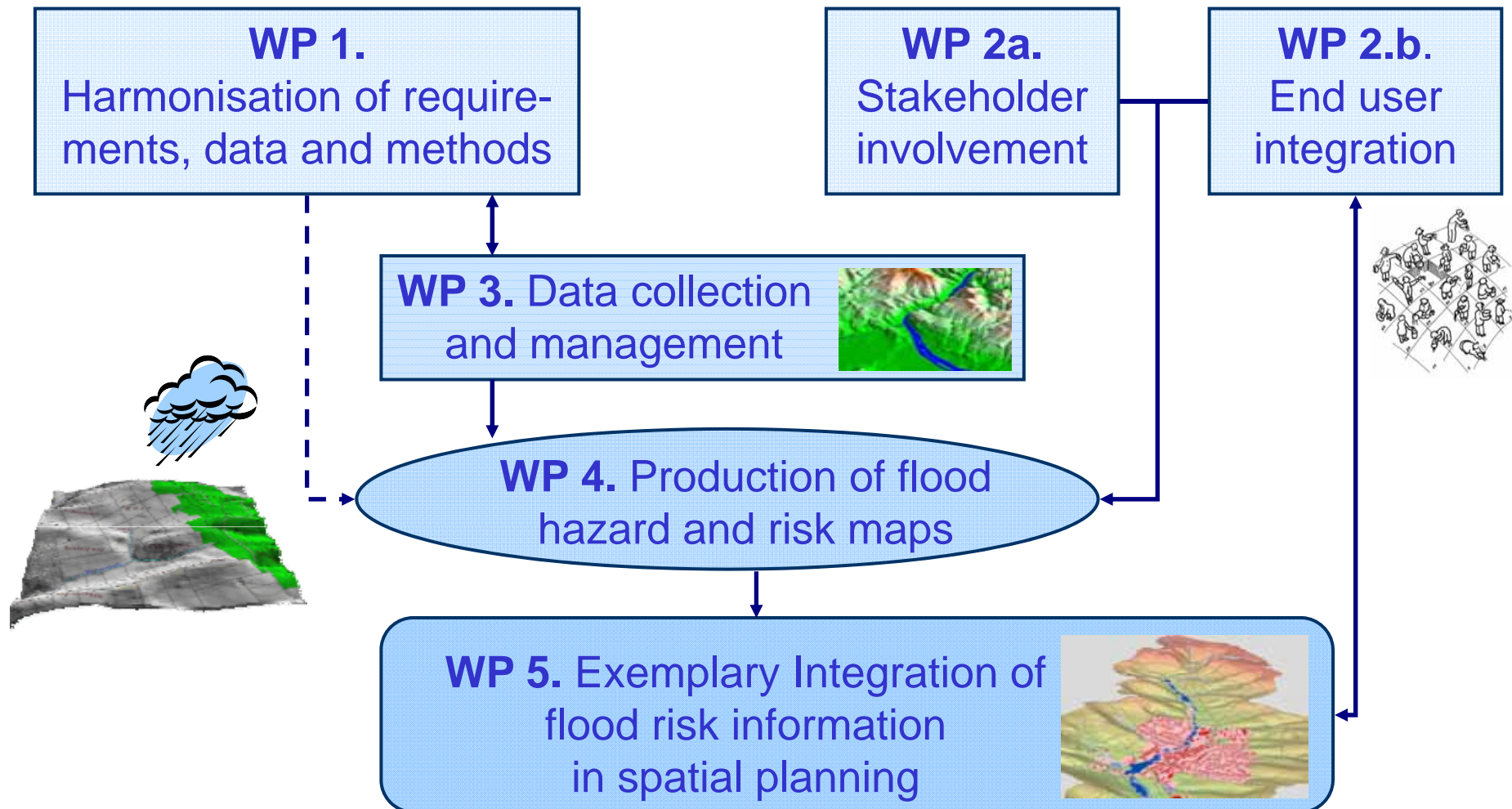


Output 4: Improvement of spatial planning and emergency management

- Transfer of risk information into planning decisions
- Improvement of emergency management



Project technical working plan



Innovative Character of the project idea

- **For Danube River Basin**
 - Cooperation of all Danube countries in joint implementation of risk management
- **For South East Europe**
 - Pilot project approach due to same issues in other river basins
- **For risk management in Europe**
 - Integration of relevant stakeholders
 - Development of standards for flood risk mapping
 - Practice and user orientated development
 - Test of EU Directives on early stage

Project facts: Danube FLOODRISK

- Duration: 36 months (April 2009 – March 2012)
- Budget: 6.3 Million €
- 8 Countries involved
- ca. 20 Organisations involved
- close cooperation with ICPDR
- links with EU many policies
(flooding, water, nature, spatial planning)
- Thematic links with EU working groups
(floods, spatial planning)



***Rivers are the best
Europeans:
they connect
regions, countries
and people!***



Thank you for
your attention