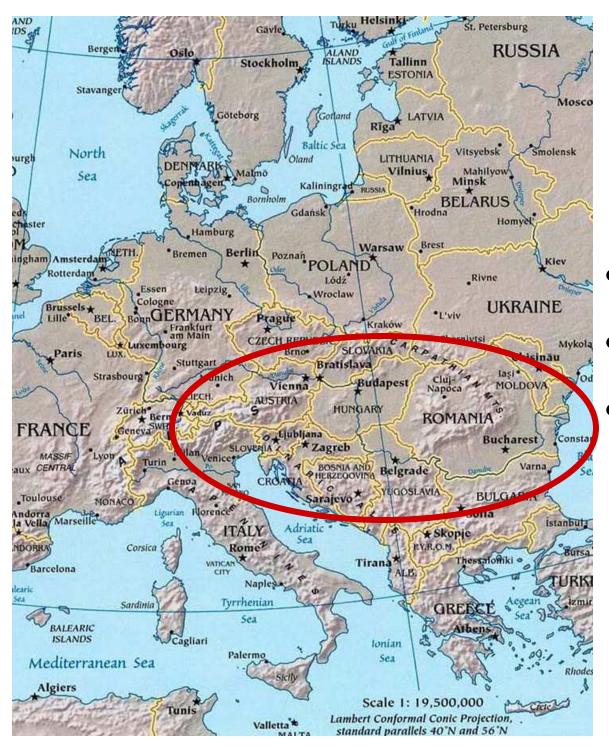
Adaptation in an international river basin-Danube case

Workshop on Water and Climate Adaptation

Amsterdam 1-2 July 2008



- ~9% from Europe
- •81 Mil. inhabitants
- 19 countries

Most international river basin in the world

97.8 % of the Romanian surface are included in the Danube River Basin

30% of the Danube River Basin is in Romania



The Danube River Protection Convention

- Signed 29. June 1994
- Entry into force 22. October 1998
- Permanent Secretariat since 1 October 1999

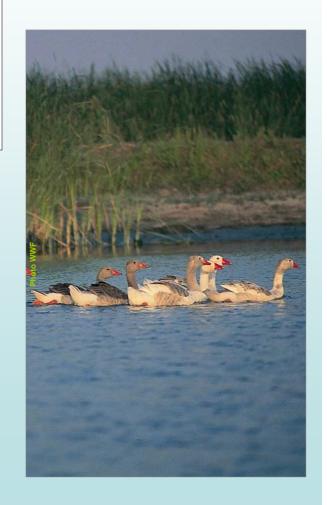
A legal frame for co-operation to assure the protection of water and ecological resources and their sustainable use in the Danube River Basin

DRPC - objectives

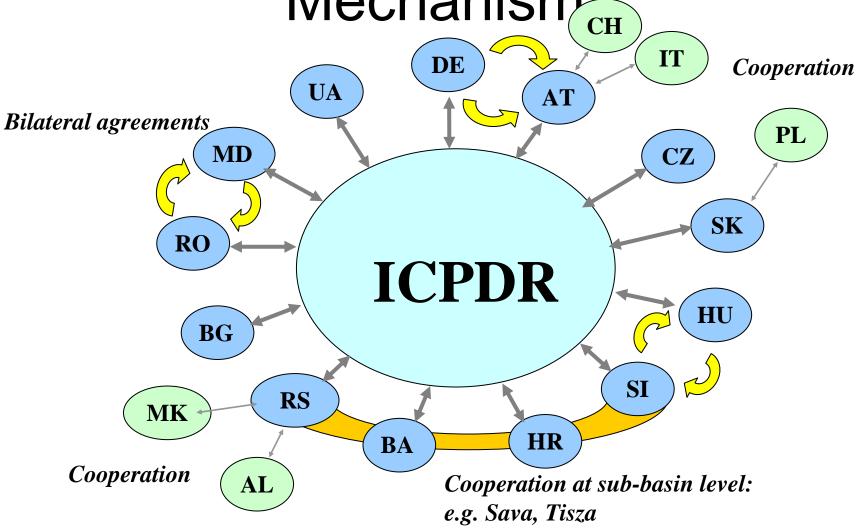
- → strengthen international cooperation
- ensure sustainable water management
- →ensure conservation, improvement and rational use of surface waters and ground water
- → reduce inputs of nutrients and hazardous substances
- → control floods and ice hazards
- → reduce pollution loads of the Black Sea

The International Commission for the Protection of the Danube River (ICPDR)

has been established to implement the objectives and provisions and to achieve the goals of the Danube River Protection Convention



Coordination Mechanism CH



Exemplu concret de rupere a unui dig, ceea ce evidentiaza necesitatea implementarii noului mod de amenajare a raurilor





Bazinul hidrografic Timis 20-21 aprilie 2005







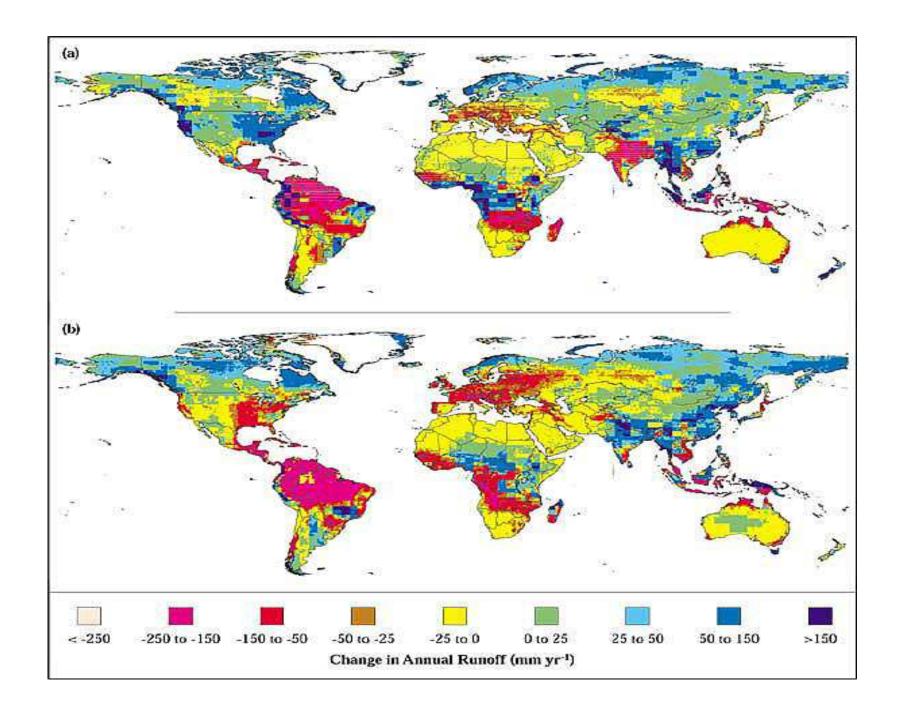












Effects

- Loss of human lives
- Threatened water supplies and human health
- Damage on the economy (agriculture, energy, industry, transport communications) Food shortage?
- Impact on the environment

ICPDR Response

Joint Action Programme

 Action Programme on Sustainable Flood Protection in the Danube River Basin

Danube River Basin Management Plan

Conditions for success

- Willingness to cooperate
- Poltical commitment at the national level
- Good coordination
- Good scientific support
- Common agreed targets
- River basin approach

First results-2009

 Draft Danube River Basin Management Plan

 Harmonized legislation on floods assessment and management

 Development of the flood risk map for the Danube (project proposal)

Cooperation with the Black Sea



"Towards stronger partnership in water management Danube Black Sea countries", Feb 23, Bucharest

National approach

- Strengthening institutional framework
- Improving legislative framework
- Developing a long term strategy
- Increase research and development activities
- Establishing and implement adaptation measures

Developing a long term strategy

- to reduce vulnerability of the local comunities and natural ecosystems
- to reduce effects on social and economic activities
- to provide a sustainable framework for further development
- to increase public awarness and public involvement

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Questions

- Which will be the extent of the climate change phenomena?
- How rapid will be the changes?
- How to change the people behaviour on the short term?
- How to change the economic development patterns?
- How to avoid water conflicts?

Dilemas

- Economic instruments versus command and control legislation
- Structural versus non-structural measures
- Governmental decision versus public participation
- Dams and dykes versus wetlands restoration
- Economic and social development versus environmental protection

