

The Water Crisis from the Regulatory Perspective

icpdr iksd

International
Commission
for the Protection
of the Danube River

Internationale
Kommission
zum Schutz
der Donau

Symposium on Business, Water and Wetlands

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

ICPDR
Wolfgang Stalzer
Bucharest, 9 July, 2012

Challenge Water Crisis

Water and Health -

Watersupply, Sanitation, Hazards, Urbanization

Water and Energy

Renewable Energy, CO₂ Emission, Economic
Development, Climate Change

Water and Foodsecurity

Population growth and Ressource distribution,
Climate Change

Strategic message

NEXUS – Approach

Interlinkage of Sectors and Actors

Water Crisis and the Regulatory Perspective

UN Level - several Conventions and Actions as well as support and financing Models

(Transboundary River Conventions etc.)

EU Level - Directives, e. g. WFD, FD, ND, UWWD...

Support and financing Regulations,

(Cooperation and coordination Systems)

Regional Level - Conventions, Treaties, Contracts etc.

National Level – Water related regulations and acts

The Danube as an Example

icpdr iksd

International
Commission
for the Protection
of the Danube River

Internationale
Kommission
zum Schutz
der Donau



Most international
River Basin in the
World,

81 M inhabitants
19 Countries -
the European Lifeline

Danube River Protection Convention



Based on the UNECE
Convention on the Protection and Use of Transboundary Watercourses and
International Lakes

29 June 1994

Sofia - Bulgaria

- Protection of water / ecological resources
- Sustainable use of water in Danube River Basin
- Reduce inputs of nutrients and hazardous substances (Black Sea)
- Control floods and ice hazards
- Strengthen international cooperation

Contracting Parties

icpdr iksd

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



Germany



Austria



Czech Republic



Slovakia



Hungary



Slovenia



Croatia



Bosnia & Herzegovina



Serbia



Montenegro



Romania



Bulgaria



Rep. of Moldova



Ukraine



European Union

Observers to the ICPDR

icpdr iksd

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



Black Sea Commission

viadonau



INTERNATIONAL SAVA RIVER BASIN COMMISSION



Navigation
Commission



WWF



Friends of Nature



Die Donau –
Tourism Commission



IAWD



IAD



EWA



Europ. Angling Ass.



GWP CEE



UNESCO - IHP



Ramsar



REC



VGB Power Tech



european barge union

ebu

Main Tasks

Primarily the implementation of specific pieces of environmental treaties and regulations within the Danube River Basin e. g.

- the Danube River Protection Convention (a multilateral treaty)
- the Water Framework Directive
- the Floods Directive

From this, a range of activities can be derived e. g.

Particularly important activities



- **Danube-wide assessments through the Transnational Monitoring Network (TNMN);**
- **Building up an accident emergency warning system (AEWS) and risk spot inventories;**
- **modelling of nutrient pollution loads (Danube -Black Sea);**
- **maintenance of emission directories and GIS data management;**
- **definition of measures to fight hydromorphological alterations, organic and nutrient pollution as well as hazardous substances;**
- **protection of habitats and wetland restoration and development and maintenance of a network of protected areas;**

Particularly important activities

- **dialogue with representatives from sectors affecting water such as hydropower, navigation or agriculture;**
- **management of awareness raising campaigns such as the Danube Box, promoting of the Danube Day et c;**
- **collaboration in Danube sub-basins such as the Tisza, Prut, Sava or Danube Delta;**
- **exchange with other river commissions, such as ORASECOM of the Orange River;**
- **collaboration with private companies to promote the work of the ICPDR (“Business Friends of the Danube”);**

ICPDR- Principles

The ICPDR is the

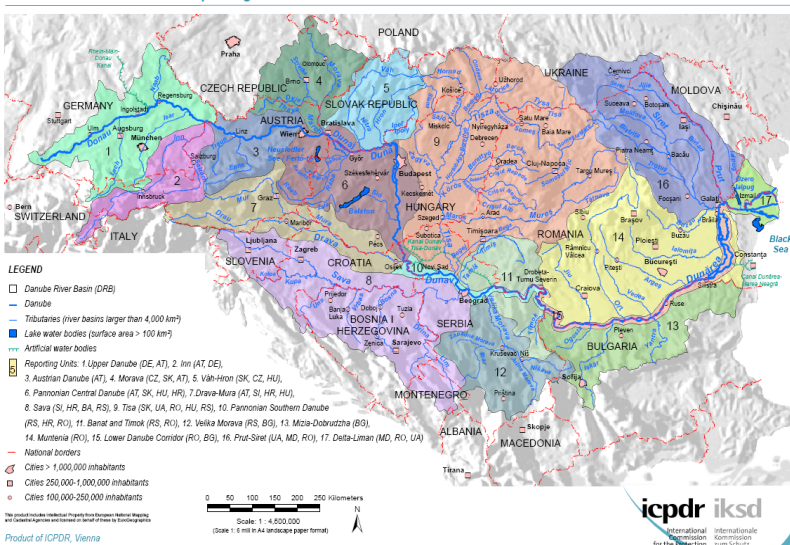
- **Executing Body of the objectives and tasks of the DRPC (Danube River Protection Convention)**
- **Competent Authority (coordinating and reporting EU WFD)**
- **Coordinating, not implementing Body**
- **Forum for Development of Projects like**
 - GEF Pollution Reduction Program**
 - Danube Strategy**
 - Sturgeon Program 2020**
 - Climate Change Adaption**

Budget and Financial Rules

Sustainable Flood Protection: Action programme & Plans



Danube Flood Protection Reporting Units



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

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

FAPs list hundreds of measures the Danube countries are going to take to keep their citizens safe against the flood danger;

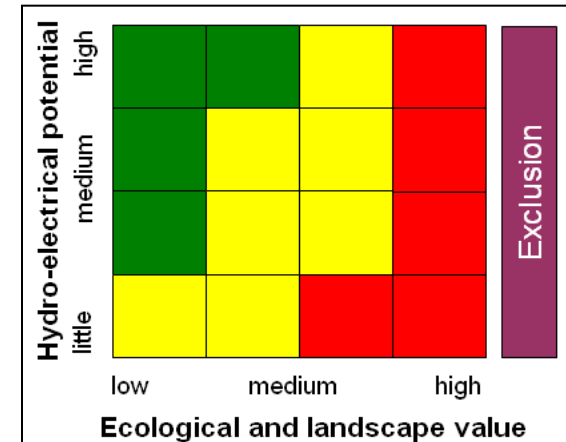
Implementation of EU – Flood Directive

Ongoing activity

Guiding Principles on Hydropower Development



- **Planned increase of hydropower generation** reported by Danube countries
- **Strategic planning approaches** required for sound WFD implementation (i.e. for placing of new facilities)
- **Need for clear technical requirements for mitigation measures** (e.g. fish migration aids, ecological minimum flows) highlighted by hydropower sector
- **Work ongoing..**



Agriculture and Land Use

affecting water quality

- e.g. balancing fertilizer application and nutrient consumption by crops
- Ban of fertilizer application during periods where uptake is not guaranteed (winter months)
- Provisions on required storage facilities
- Regulations on application of plant protection products
- etc.



Storage facilities for manure

Proper application?



Adapting the Danube River Basin to Climate Change

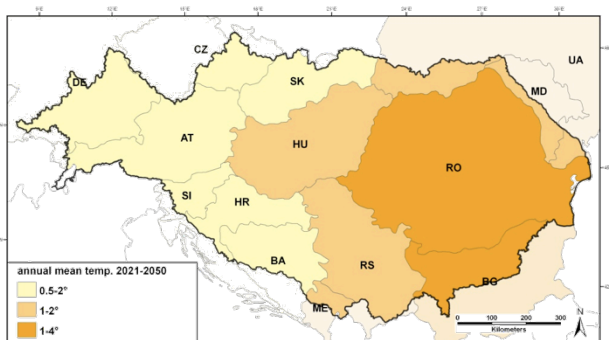
icpdr ikasd

International
Commission
for the Protection
of the Danube River

Internationale
Kommission
zum Schutz
der Donau

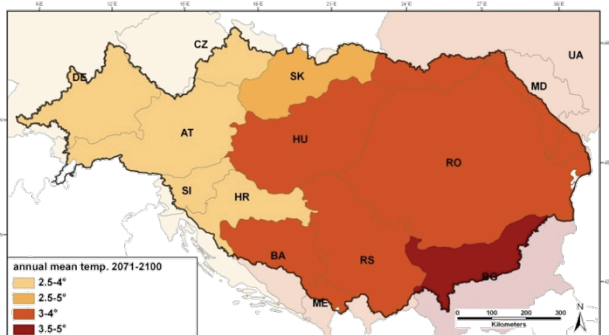
Temperature

2021-2050: +0.5 – 4K



Temperature for multiple A1B scenarios

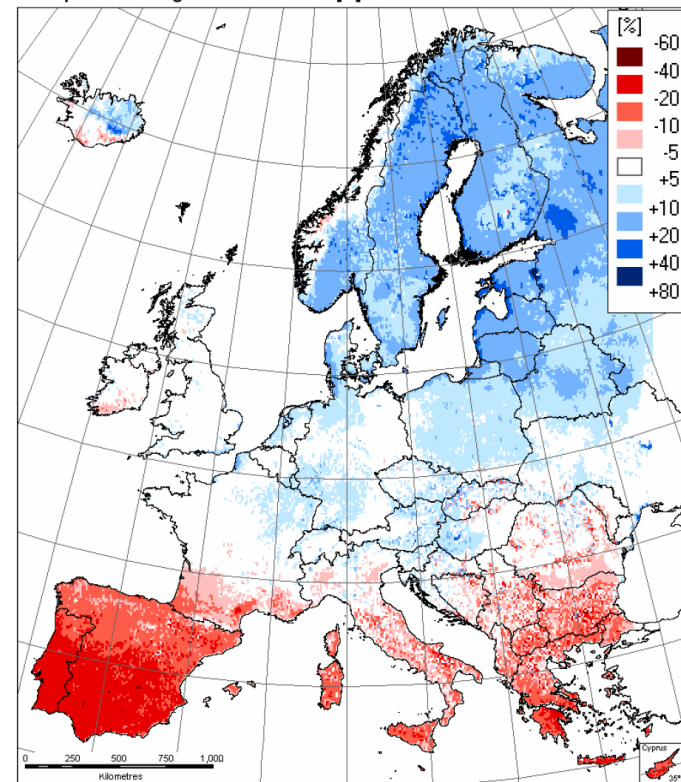
2071-2100: +2.5-5 K



Temperature for multiple A1B scenarios

Precipitation

Precipitation: change in annual amount [%]



EU Danube Strategy

icpdr **iksd**

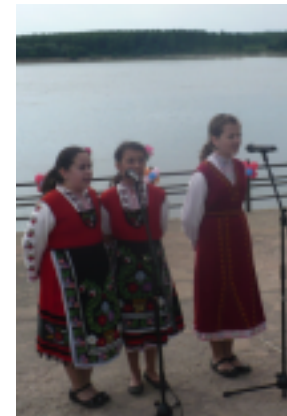
International
Commission
for the Protection
of the Danube River

Internationale
Kommission
zum Schutz
der Donau

- High degree of political attention
- New impetus for projects
- Efficient prioritisation



Cooperation between business & governments

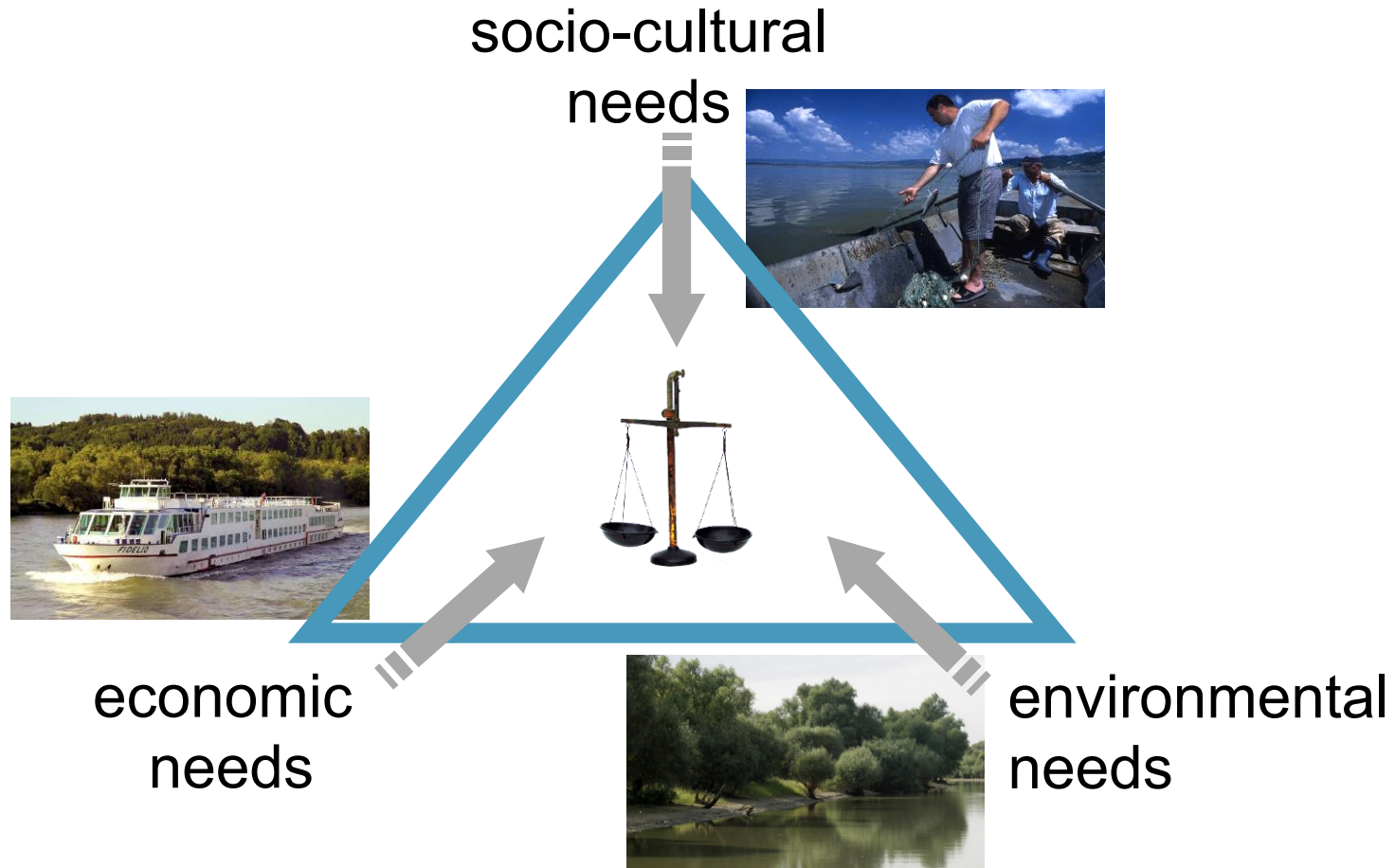


Balancing of interests

icpdr iksd

International
Commission
for the Protection
of the Danube River

Internationale
Kommission
zum Schutz
der Donau



Thank you!

icpdr iksd

International
Commission
for the Protection
of the Danube River

Internationale
Kommission
zum Schutz
der Donau

The screenshot displays the ICPDR website interface. On the left, there are two main navigation menus. The first menu, titled 'Danube Basin', includes links for 'RIVER BASIN', 'COUNTRIES', and 'BLACK SEA'. The second menu, titled 'Issues', includes links for 'ECOSYSTEMS', 'WATER QUALITY', 'WATER POLLUTION', 'GROUNDWATER', 'FLOODS & DROUGHTS', 'DAMS & STRUCTURES', and 'RIVER BASIN MANAGEMENT'. To the right of these is a 'Sectors' menu with links for 'HUMAN IMPACTS', 'MUNICIPALITIES', 'INDUSTRY', 'AGRICULTURE', 'NAVIGATION', and 'NATURE PROTECTION'. Below the 'Sectors' menu is an 'ICPDR' menu with links for 'ABOUT US', 'PROJECTS & PROGRAMMES', 'PUBLICATIONS', 'MEETINGS & EVENTS', and 'THE CONVENTION'. A search bar is located at the bottom of the left sidebar.

The main content area features a header with the ICPDR logo and the text 'Working for the Danube River Basin and Its People'. Below the header is a 'Danube Day' banner with images of children and a river. A 'Welcome to ICPDR website!' message is followed by a photo of Mr. Wolfgang Stalzer, ICPDR President 2012, and a text block stating: 'We hope that this website inspires anyone wishing to know more about the environmental issues affecting the Danube river basin. And that it is a good source for everyone interested in ensuring the sustainable development of the most international river basin in the world.'

Below the welcome message are three news articles. The first article, 'AUSTRIA TAKES OVER ICPDR PRESIDENCY', describes a ceremony in Vienna where Austria took over the presidency of the ICPDR from Mykola Malenewskyi of Ukraine. The second article, 'DANUBE WATCH 3-4/2011', promotes the new issue of the Danube Watch magazine. The third article, 'CZECH VERSION OF THE PLATINA MANUAL PUBLISHED', announces the publication of a Czech version of the PLATINA Manual. The fourth article, 'INLAND WATERWAYS COMES TOGETHER TO ADDRESS DIFFERENCES', reports on a groundbreaking conference in Brussels where traditionally opposing waterways groups came together to discuss cooperation for the benefit of Europe's rivers and canals.

Further information: www.icpdr.org