Session 4.3.4.

Building trust: Facilitating data & information exchange between riparian countries in transboundary basins

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Why data and information sharing is important for transboundary water resource management?
Develop confidence among countries

- Transboundary water resource management = managing water shared by several countries, usually in competition / conflict
- To develop cooperation as base of collaborative water management, need to build confidence between countries
- Data & information sharing = base for it!
- Agreement on the data
Transboundary Basin Management needs reliable Data & Information

- Many owners of water data & information: administrations, basin organisations, professionals, water service operators, research, NGOs, ...
- Heterogeneity among data: harmonisation
- Incomplete: areas without data, parameters missing, groundwater?

Data often no reliable
Different definitions among countries
Different methodology among countries
Transboundary Basin Management needs reliable data and information.

Framework of the Management Plan:

- 3 levels for coordination

Roof plan (large basin)

National and sub-basin level

Local level

More details

Sun-basin management plans:
- Delta
- Tisza
- Sava
- Prut

ICPDR example
Transboundary Basin Management needs reliable Data & Information

Absolute need of same approach

source

mouth
Transboundary Basin Management needs reliable Data & Information

Figure 11: Overall hydromorphological assessment of the Danube River in five classes as longitudinal colour-ribbon visualisation. \(^{43}\)

Absolute need of same approach
Management Plan & Strategy need Data & Information for efficiency

Base line
- water, uses
- land
- activities

Different Scenarios

Trends (population...)
Development will
Climate change ...

Which Adaptations

- Institutions (bodies, legislation)
- Investments
- Capacities
- Research

Data
Data & Information required for Evaluating Progress

- Quality parameters
- Biological parameters
- Quantity parameters

(time)
... and analysing gaps with planning

Quality observed

How can we explain the failure?
Lessons for future?

Quality forecast

Analyse the success
Draw lessons
Can we speed up?

time
The need of Knowledge, Data & Information for an efficient water management at basin level

Which data?

- Water resources: quantity, quality, uses, ... availability and potential
- Population, impacting activities, ...
- Urbanization, changes in land uses
- Institutional organization
- Regulation and its application
The need of Knowledge, Data & Information for an efficient water management at basin level

- **Efficient Water Information System,** established at basin level
- **Reliable monitoring system to measure progress**
Evolution in water management

Management area

- Water from river
- Water from river + tributaries
- Water from river + tributaries + ecosystems
- Water from river & tributaries + ecosystems + groundwater

Basin - territory management

All water resources (surface and groundwater)
Total run-off
Links with impacting activities and developments
Ecosystem as important user
Evolution in water management

Management area

Water from river

Water from river + tributaries

Water from river + tributaries + ecosystems

Water from river & tributaries + ecosystems + groundwater

Complexity increase - Importance of Data grows up

Basin - territory management

All water resources (surface and groundwater)
Total run-off
Links with impacting activities and developments
Ecosystem as important user
Thanks for your attention!

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