Cross-sectoral Cooperation in Transboundary Basins

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Welcome to the Anthropocene

Anthropocene – humans influence the functioning of the Earth
Water security... key to achieving the SDGs

Climate-Driven Water Scarcity Could Hit Economic Growth by Up to 6 Percent in Some Regions, Says World Bank

Floods cover most of the South Australia's 'great green boom' of 2010-11 has been undone by drought

Latest report

$14B of GHG reduction activities depend on a stable supply of good quality water.

24% of water-related impacts cost business US$14 billion, a five-fold increase from last year.

MPs against unchecked groundwater extraction

Reef degradation on Maui linked to quality of coastal groundwater...
### Table 1
Types of cooperation and benefits on international rivers

<table>
<thead>
<tr>
<th>Type</th>
<th>The challenge</th>
<th>The opportunities</th>
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<tbody>
<tr>
<td><strong>Type 1: increasing benefits to the river</strong></td>
<td>Degraded water quality, watersheds, wetlands, and biodiversity</td>
<td>Improved water quality, river flow characteristics, soil conservation, biodiversity and overall sustainability</td>
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<td><strong>Type 2: increasing benefits from the river</strong></td>
<td>Increasing demands for water, sub-optimal water resources management and development</td>
<td>Improved water resources management for hydropower and agricultural production, flood-drought management, navigation, environmental conservation, water quality and recreation</td>
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<td><strong>Type 3: reducing costs because of the river</strong></td>
<td>Tense regional relations and political economy impacts</td>
<td>Policy shift to cooperation and development, away from dispute/conflict; from food (and energy) self-sufficiency to food (and energy) security; reduced dispute/conflict risk and military expenditure</td>
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<td><strong>Type 4: increasing benefits beyond the river</strong></td>
<td>Regional fragmentation</td>
<td>Integration of regional infrastructure, markets and trade</td>
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</tbody>
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Sadoff and Grey, 2002
Goal: Addressing competing uses of water

Support to a structured process:

- Transboundary Diagnostic Analysis (TDA) – from perception to facts Basin Vision
- Strategic Action Program (SAP) – TDA is base for agreed actions and may lead to further analysis of cross-sectoral opportunities – often including decision support systems, strategic basin assessments across sectors at basin and sub-basin level within SAP
- Support to legal/institutional framework for cooperation to underpin sustainable development
- SAP implementation – investment program
GEF support to governance and management of transboundary basins

- **Process:** Structured process to engage in transboundary basins and address X-sector trade-offs
- **Time scale:** Long terms processes and series of interventions
- **Finance:** Designated funding window for SAP implementation (if signed); GEF 6: key programs to address X-sectoral issues
- **Connectivity:** Sectors; Up-downstream; surface water & groundwater; coastal marine
- **Exchange of experience:** Funding for learning and exchange of experiences & lessons
Nexus Dimensions and Assessments
Recall the ‘early days’ of defining the SEA process
Nexus Framework

Spatial Scale:
- Global
- Regional/Transboundary basin (up-stream-downstream)
- National/national sub-basins
- Local

Dimensions:
- Governance (institutional/legal/policy frameworks)
- Cross-sectoral Basin/program investment
- Site specific/Project level nexus assessment, opportunities and trade-offs and benefit sharing (e.g. HP - watershed management – flow regulation)
Nexus Framework – what nexus ...
Move to greater integration in GEF 6
Thank you!

GEF International Waters