

Presentation

Presentation from the 2009 World Water Week in Stockholm
©The Author(s), all rights reserved

WORLD
in Stockholm,
August 16–22, 2009 **WATER**
WEEK



Applying IWRM Principles in the Management of Transboundary Waters: Status and Trends

PRELIMINARY SURVEY RESULTS

World Water Week 2009, Stockholm.

Session: *Towards an Ecosystem Approach to IWRM in Transboundary Basins: Status and Prospects*

Tuesday 18 August, 2009

Dr Bruce P Hooper

Senior Adviser, UNEP-DHI Centre for Water and Environment

DRAFT



What: A **global survey** of transboundary IWRM

- part of larger activity that includes case studies
- only **pilot survey** reported today
- survey takes 1-2 hours to do
- we need more basins! Nominate today!

Who is running survey? UNEP/UNEP-DHI Centre (Denmark)

Long term strategic goal:

To improve the management of transboundary water resources for the direct benefit of both people and ecosystems.

DRAFT

Preliminary Results of Pilot Survey

Responses from 6 basins to pilot: US/Canada Great Lakes, Mekong, Nile, Rio Grande, Volta, Yalu – a small pilot population

For **Transboundary IWRM practices**–

Strong action in:

- Cross-sectoral integration
- Management subsidiarity
- Capacity building of TBO
- Capacity building of stakeholder groups
- Strong leadership
- Close political links
- Use of monitoring/research
- Supportive external financing

DRAFT



Preliminary Results

For Transboundary IWRM practices –

Some action in:

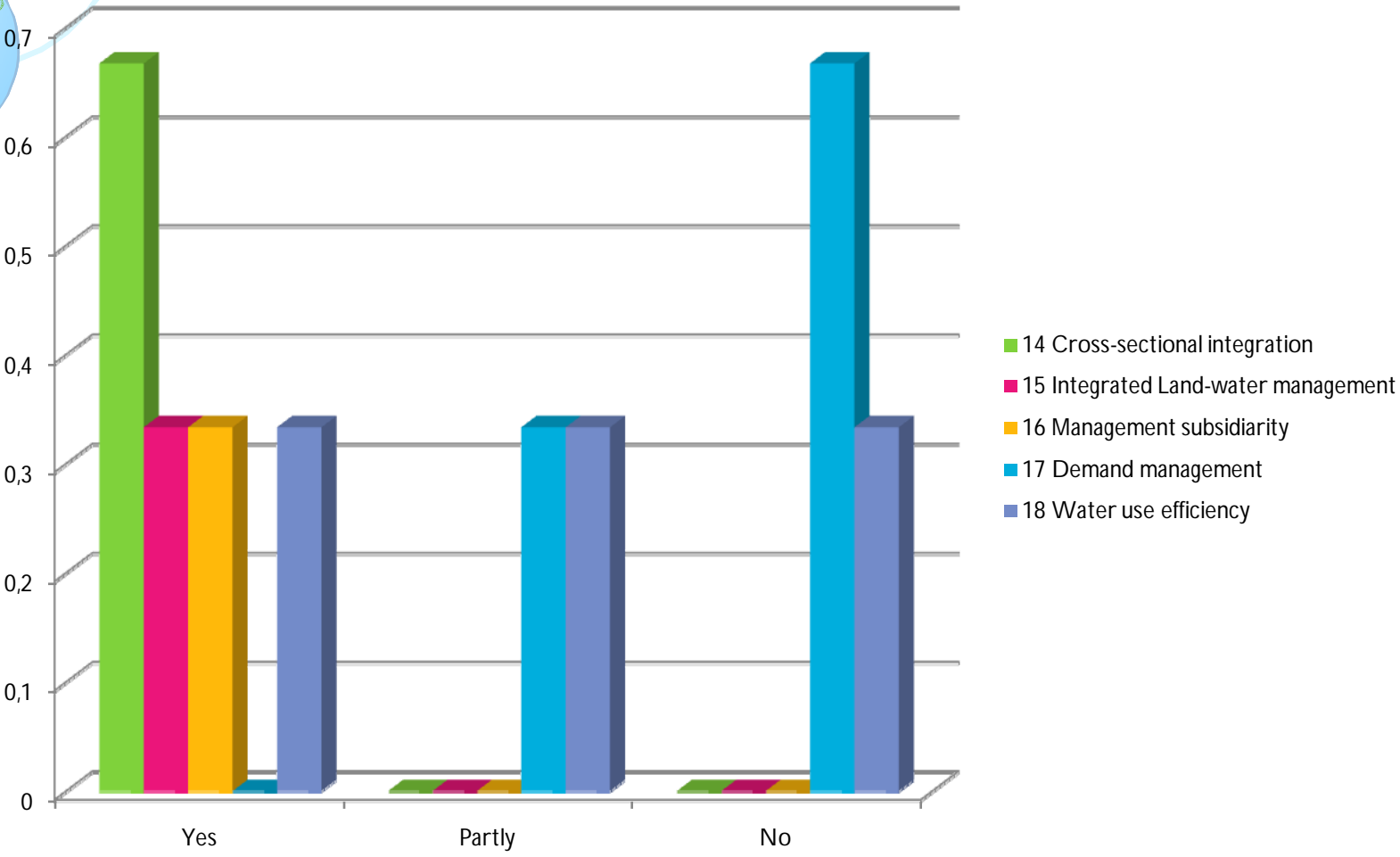
- Cross-sectoral integration
- Management subsidiarity
- Benefit sharing
- Riparians' financial support
- Climate change adaptation
- Women in water agencies
- Water use efficiency

Quite limited action in:

- Demand management
- User pays
- Direct revenues raised by TBO
- Polluter pays

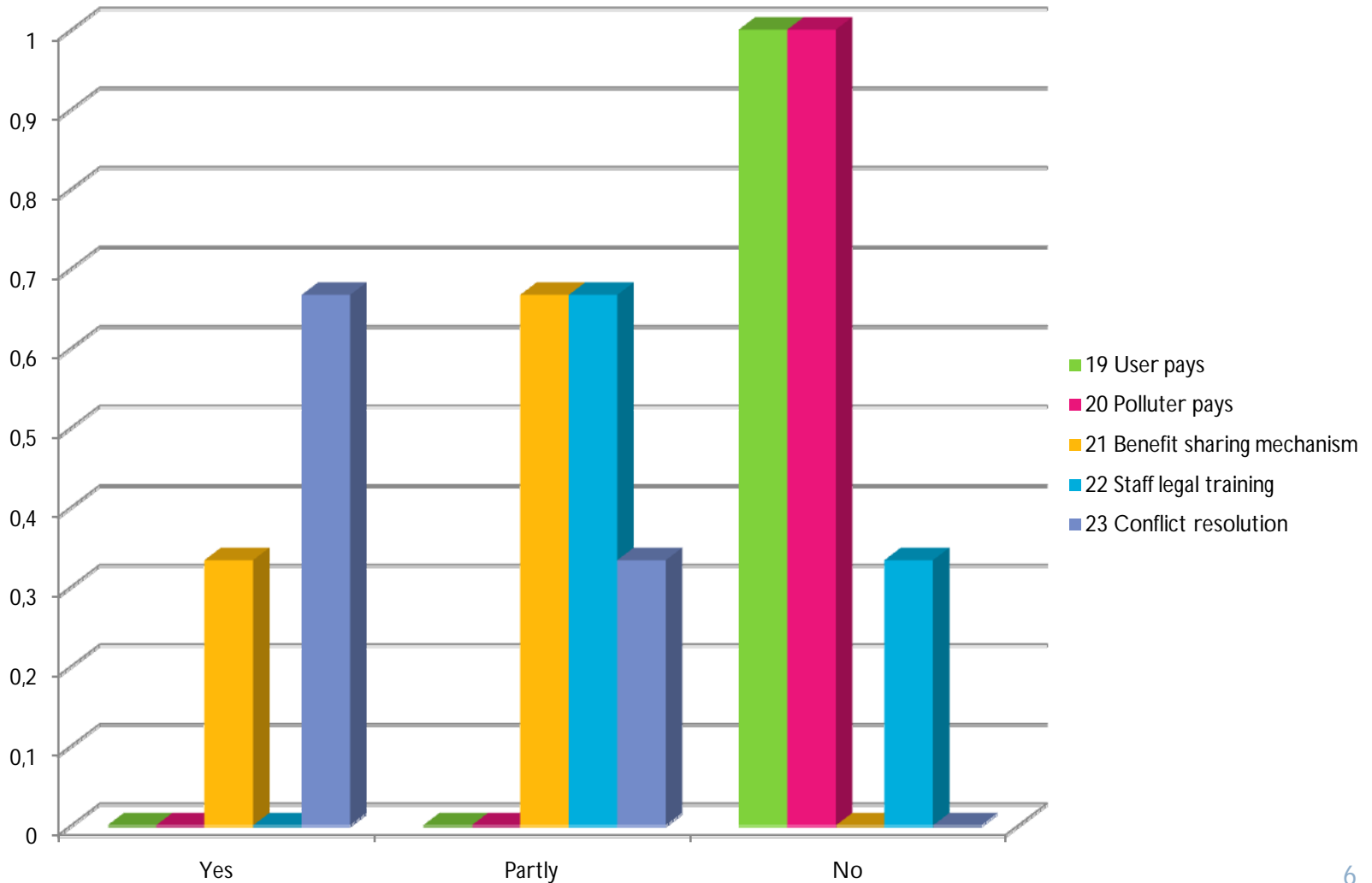
DRAFT

Preliminary results – transboundary practices



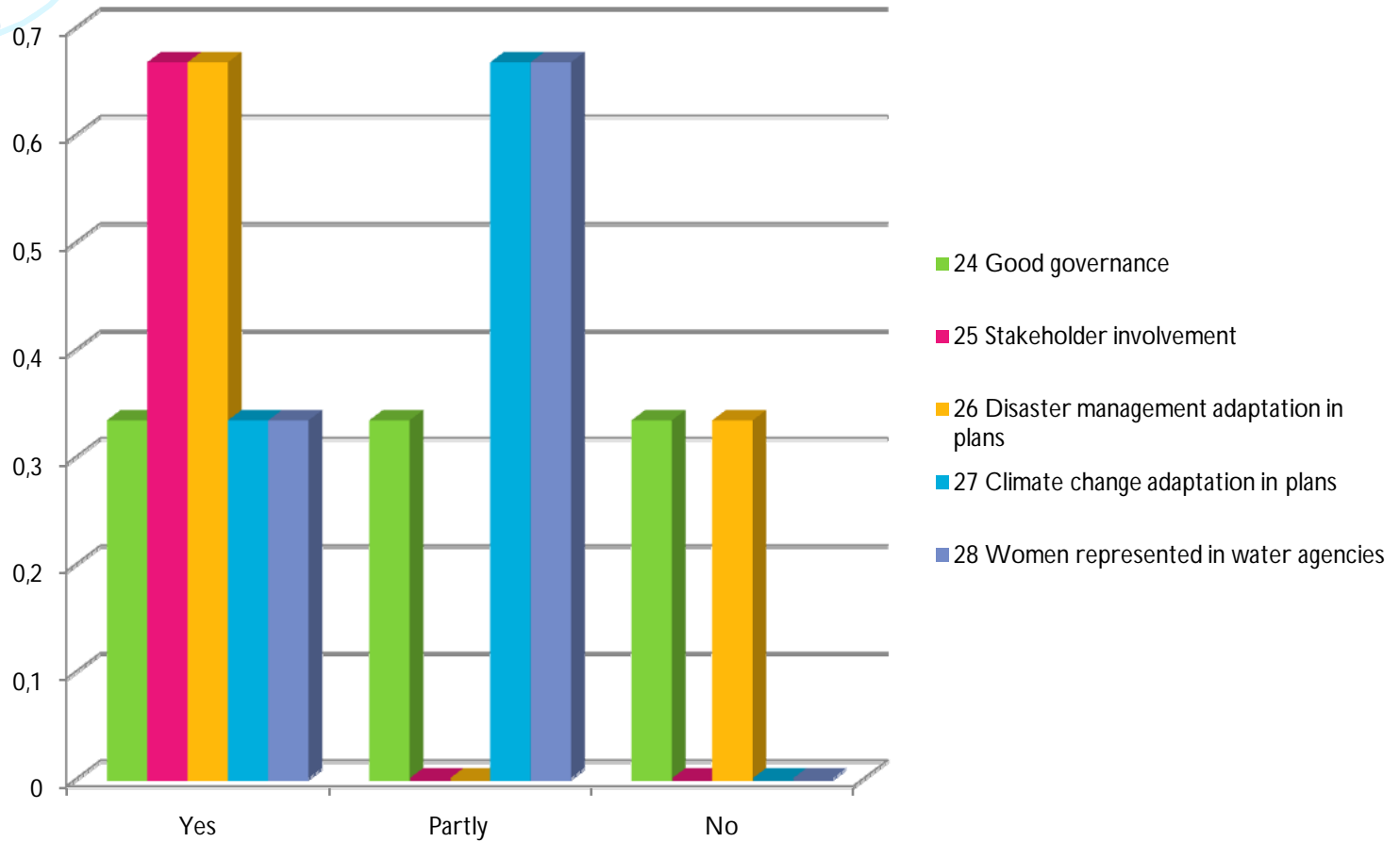
DRAFT

Preliminary results – transboundary practices



DRAFT

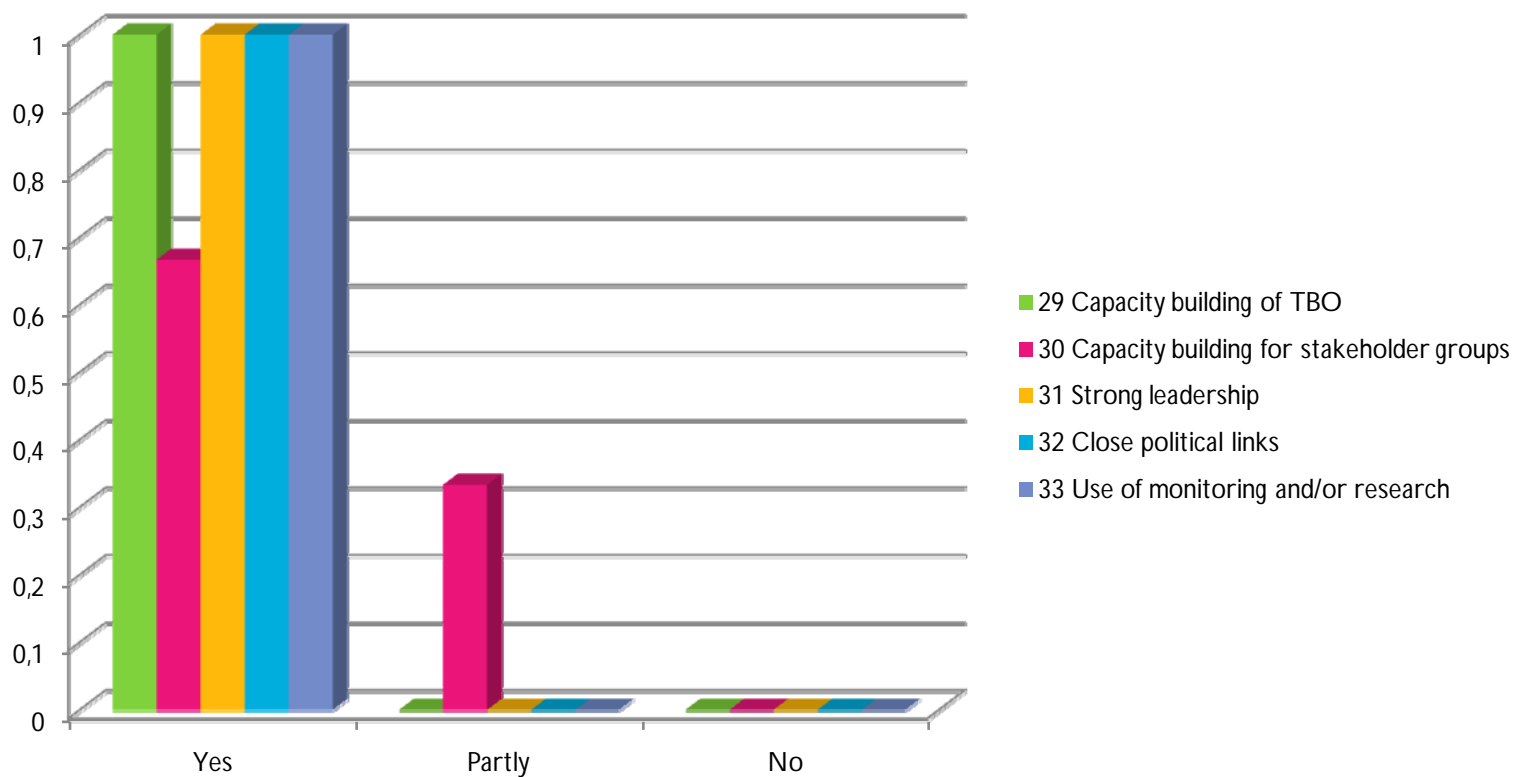
Preliminary results – transboundary practices



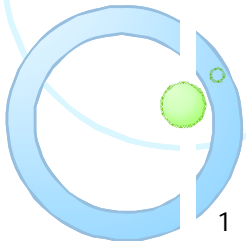
DRAFT

Preliminary results – transboundary practices

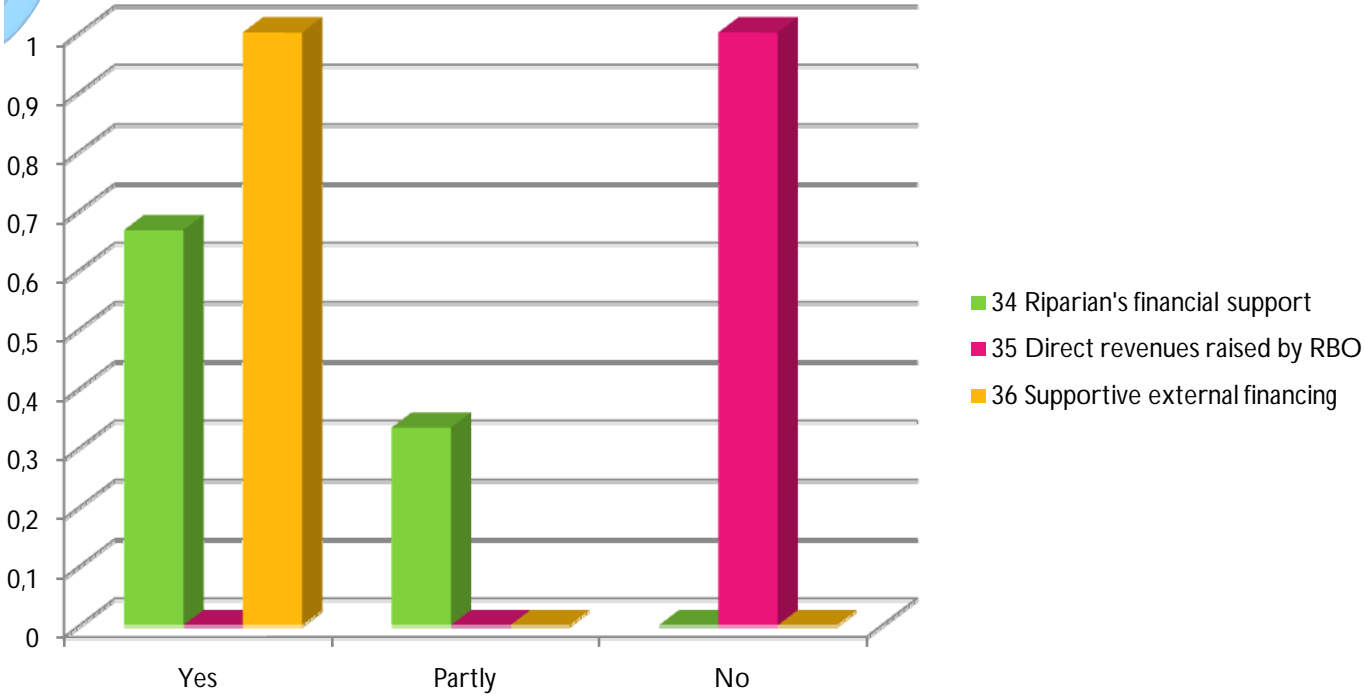
DRAFT



Preliminary results – transboundary practices



DRAFT





Preliminary Results of Pilot Survey - Summary

For environmental management practices in IWRM :

Strong action:

- Use of impact assessment

Some action:

- Environmental asset valuation
- Impact monitoring and evaluation
- Water quality management 'advocacy'
- Data collection, analysis and sharing
- Riparian information exchange
- Environmental flow assessments
- "Whole of basin" approach

DRAFT



Preliminary Results of Pilot Survey – Summary

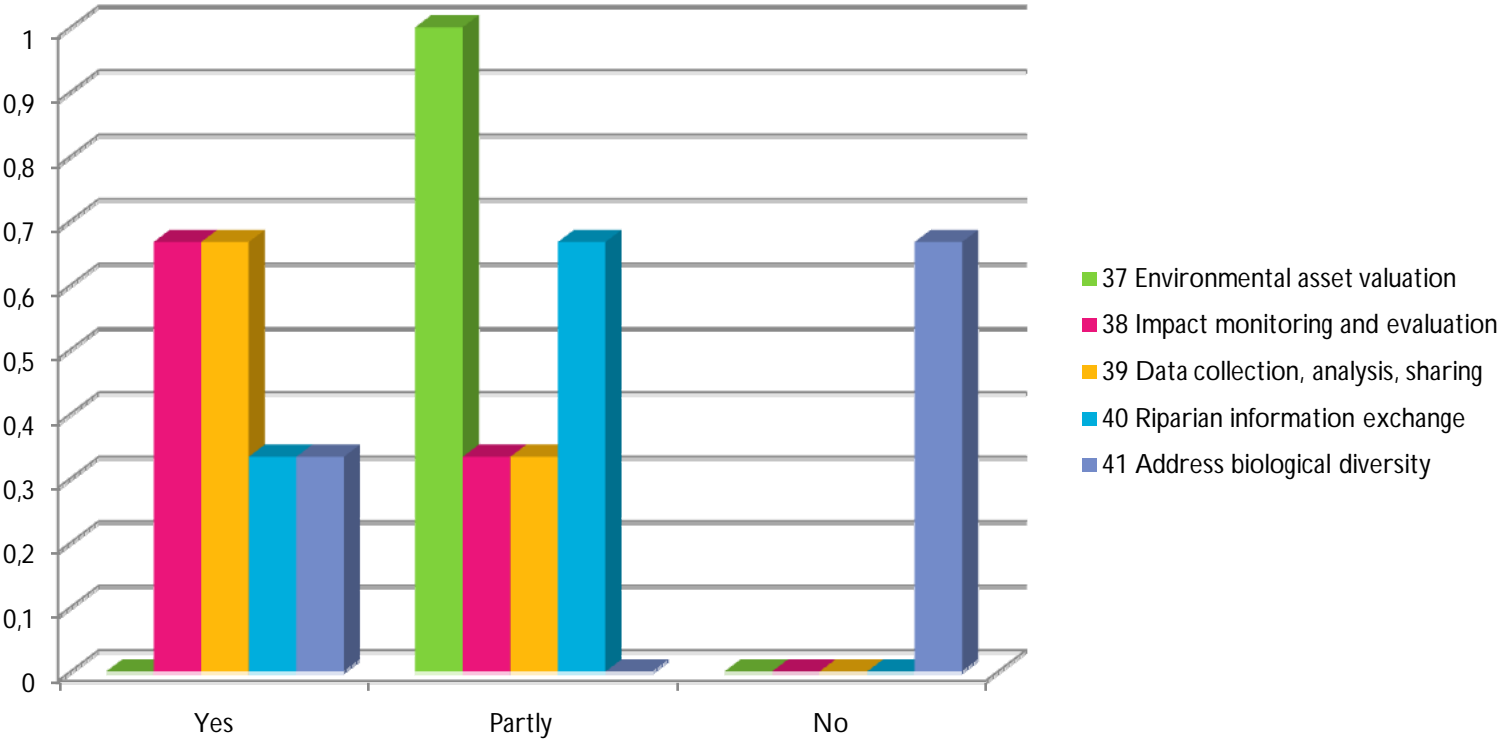
For environmental management practices in IWRM:

Quite limited action in:

- Address biological diversity
- Use of environmental flow assessments
- Use of biodiversity assessments
- Use of ecosystem thresholds

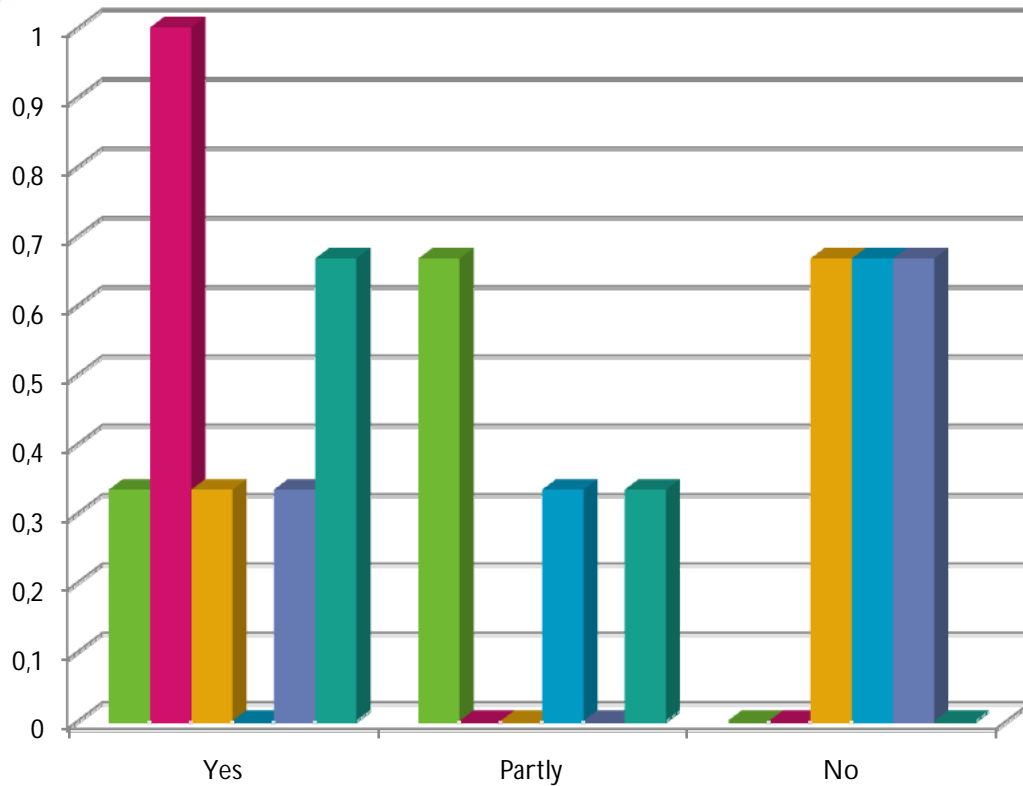
DRAFT

Preliminary results – environmental management practices



DRAFT

Preliminary results – environmental management practices



- 42 Water quality management advocacy
- 43 Use of impact assessment
- 44 Use of environmental flow assessment
- 45 Use of biodiversity assessments
- 46 Use of ecosystem thresholds
- 47 "Whole of basin" approach

DRAFT



Preliminary results – challenges

Written comments from survey forms

- Each basin is unique wrt basin organisation development - so limited benefit in basin to basin comparisons
- Lack of Transboundary Agreement occurs
- Complexities for IWRM for multiple agreements
- Inadequate financial resources
- Weakly harmonized laws, institutional arrangements and policies across boundaries
- Insufficient relevant institutions in each riparian
- Lack of agreed procedures for data sharing
- Undeveloped capacity in water sector
- Some lack of awareness of IWRM in riparians



Preliminary results – where to from here

(1) Need for more actions to address river health as they contribute to development; so, in environmental management


- Address biological diversity
- Use environmental flow assessments
- Use biodiversity assessments
- Use of ecosystem thresholds

How? >> depends on challenges and context

(2) Transfer lessons learned to others – learn from experiences esp. effective Transboundary and Environmental Management actions

DRAFT

Further activities



* Demonstrate environmental services' benefits – we need more data from your experiences!

* Databases of transboundary and environmental management practices developed – show positives and negatives (shining successes and 'areas for improvement')

* Develop recommended actions - aimed realizing the benefits of ecosystems services (in river health) for development

DRAFT

Contacts:

UNEP-DHI Centre -

- Bruce Hooper bph@dhigroup.com [AUSTRALIA]
- Gareth Lloyd gjl@dhigroup.com [DENAMRK]

UNEP -

- Thomas Chiramba Thomas.Chiramba@unep.org [KENYA]

DRAFT