



**ADB Regional Technical Assistance 7547: Supporting Investments in Water Security
in River Basins, Regional Workshop
Chiang Mai, Thailand, 17 May 2013**

SUMMARY

LESSON FROM IWRM CASES IN INDONESIA, NEPAL, AND UZBEKISTAN



Introduction

- **Water security becomes a concern of the Asia Pacific countries because of the rapid increase of water demand, river/canal deterioration, water related disasters and climate changes.**
- **To improve water security ADB and JWA have conducted technical assistance (TA) that composed of investment and capacity development planning by applying IWRM in the process.**



- **The three TA selected countries are Indonesia, Nepal, and Uzbekistan as pilot countries and targeted to Bengawan Solo river, Bagmati river, and SyrDarya River.**
- **Presentation and panel discussion were conducted to get deepen understanding of the issues and to share how three pilot countries cope their issues.**



▪ **PLENARY NOTES :**

- **Water scarcity, water quality degradation (pollution), water related disasters (flood, drought), water facilities deterioration , improper operation and management of water use, and improper maintenance of water facilities were major issues on water security in the pilot countries both upper, middle and lower basin.**
- **Securing water governance is a key factor to enhance IWRM process.**



- Each country has different problems and unique approach to reach their goals according to their cultural, socio economic, environmental, transboundary, political condition, and existing policy and regulation.
- Several steps should be taken to improve water security namely, improve knowledge of the basin (improve basin profile), proper analyze of threat and opportunity base on basin profile, then formulate plan or strengthen RBO, and define priority of activities.



- Build implementable steps to address urgent issues, and formulate roadmap. Capacity development is necessary in each step.
- Three TA pilot countries have already implemented the IWRM process at different stages. Therefore, assistance is required to ensure the constant process and optimize the output.



GROUP DISCUSSION RESULTS:

a. *How to strengthen function and effectiveness of RBO?*

1. Commitment to become good RBO,
2. Capacity building of human resources of the RBO,
3. Building and improving coordination among stakeholders,
4. Sharing information among the stakeholders to provide better communication and implementation in water resources management,
5. Implementing supervision and enforcement on implementing cropping pattern in order to support RBO to conduct the water utilization management,
6. Implementing conservation by community based approach,
7. Encouraging the watershed stakeholders to support RBO in conducting conservation, water utilization, flood management, build data & information system as well as the empowerment of stakeholder;
8. Improving data and information system.



GROUP DISCUSSION RESULTS:

How to improve irrigation water use efficiency??

1. Inviting stakeholder participation to implement efficiency on water usage;
2. Improving awareness of Water User Association to secure the irrigation management;
3. Operation and maintenance (O&M) manual must be consistently implemented;
4. Good implementation on irrigation O & M, both for structural and non structural measures.



GROUP DISCUSSION RESULTS:

How IWRM Approach (Nepal) -

1. 3 Keywords: Issues, water scarcity and iwrn approaches
2. 2 main aspects of water sec: security from water and security of water itself;
3. Iwrn is a process which includes stakeholder building, proper infrastructure dev, etc
4. Iwrn can improve water security in Bagmati through stakeholder involvement, institutional building, and proper infrastructure

2nd Nepal question

1. Flooding in rainy season
2. Problem of resettlement;
3. Solution: 1. interbasin water transfer; 2. flood control measures
4. Structural and non-structural measures development;

3rd Nepal

1. We have to increase discharge of Bagmati river
2. Bagmati was polluted by sewage, along the river bed
3. Kathmandu is upper area of Bagmati, facing problem of water scarcity
4. It is diverted to drinking water;

GROUP DISCUSSION RESULTS:

How(Uzbekistan) –

1. Have adopted regulation: efficiency of water use =
2. Key point: use more drip irrigation system
3. Decrease water demand for irrigation, save a lot of water
4. Farmer can improve their products.
5. Gov can reduce payment of electricity for pumping;

2nd Uzbekistan question

1. Safety of hydrotechnical very important
2. Several laws on that: on safety of ;
3. Seperate gov agency to make inspection on hydrotechnical, so that they have inspection agency;
4. Managing agency is the minitry and the inspection under other ministry cabinet



Wouter

1. The agencies work together to solve the water security problem;
2. It is important to understand about the strength for implementing IWRM;
3. Good data and understanding among the stakeholder;
4. This is the first project of jwa and adb

Sadahiro

1. At the beginning, there is a question on why choosing the particular river basin;
2. Water is a transboundary issues;



GROUP DISCUSSION RESULTS:

a. How to strengthen function and effectiveness of RBO

Group 1

1. Knowledge Sharing
2. Proper structure
3. Data and collection information system
4. Proper legislation and support from the government
5. Indigeneous practice and knowledge
6. Networking
7. Application latest technology
8. Training

Function

1. Update information
2. Regular interaction
3. Implementation of basin plans
4. Proper monitoring and evaluation
5. Enforcement
6. coordination

GROUP DISCUSSION RESULTS:

a. How to strengthen function and effectiveness of RBO

Effectiveness

Monitoring and evaluation system

Leadership

Result oriented

Carry togetherness

Unity

Rewards and punishment

Market based instrument

GROUP DISCUSSION RESULTS:

a. How to strengthen function and effectiveness of RBO

Grup II

Secure legal status with clear mandates

Mobilize adequate human and financial resources

Self sustainability

Generation of revenues through fees/cost recovery

Reduce gap between gov and general public

Coordinate/synergize activities with other agencies

Mobilize citizen participation

GROUP DISCUSSION RESULTS:

a. How to strengthen function and effectiveness of RBO

Grup 3 (Pak Tjoek)

4 aspect to exercise

- Political and legislation
- Institutional framework
- Human resources
- Competency

Improve capacity building

Pak Keizrul

- Accountability

Pak Isnu

Private Public partnership

b. What would be the keys for success in view of IWRM to improve water security

Group 3

Political willingness

Sustainability knowledge

Issues knowledge

Ownership of stakeholder

Technologies

TA support for step forward

- What if no RBO
- Government agencies
- Local governments
- Private sector
- Local communities

b. What would be the keys for success in view of IWRM to improve water security

Comments:

Pak Isnu

Stakeholders trust

Law enforcement

c. What are the TA outcomes worth to be disseminated.

Group 4

Inclusive process

- Task force formation – Nepal
- Basin Council – Indonesia
- Awareness

Institutional mechanism

- RBO, laws, mandates – Indonesia
- Strategic planning, Basin plans – Pola
- Road map -Nepal

Infrastructure Planning & Development

Stakeholder participation



Thank you very much
For your contribution

