



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

Summary of the technical Workshop

Improving Water Security

*Lessons from IWRM Cases in River basins in
Indonesia, Nepal and Uzbekistan*



Introduction

- **Water security becomes a big 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 planning and capacity development planning** by applying **IWRM** in the process.



- The TA selected **Indonesia, Nepal, and Uzbekistan** as pilot three countries and targeted to **Solo river, Bagmati river, and SyrDarya River**.
- In the workshop, presentation and panel discussion were conducted to **share the issues and 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 issues 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 (**basin profile**), proper **analyze of threats and opportunities** base on basin profile, then **define priority of activities**.



- Build **implementable steps to address urgent issues, and prepare investment plan. 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.



TA Support for making Steps Forward...

Steps	Bagamati River Basin	Solo River Basin	Syr Darya River Basin
Improve knowledge (e.g. Basin Profile)	-Detailed basin profile -Supplementary Studies (Groundwater, Surface Water Development)	Updating of the former Basin Profile	Formulate Basin profile in Namangan oblast
Analyse Strengths and Weaknesses, Threats and Opportunities (from Basin Profile)	SWOT analysis of the Water Issues, Water Governance Tools and IWRM implementation mechanisms	(Analysis, conceptualization set up in POLA) - -Proposal of investment plan (economic efficiency)	Focus on water use efficiency. improve operation and maintenance of water facilities and water saving
Define urgent and/or demonstrative Actions that can be implementable immediately (Pilot area activities)	-Suggestions for formulation of basin level RBO -Suggestions for river environmental plan -Suggestions for holistic ground water management plan -Pilot Waste Water Treatment	-Pilot irrigation scheme : Improve water distribution efficiency -Pilot dam : improve operation and safety management -Pilot upper Watershed : conservation management through stakeholder coordination	-Improvement of the water management -Improvement of the safety management of the Hydro technical facilities
Build implementable steps for addressing the most urgent issues. Take profit of strengths and opportunities for implementation	(Support to PPTAs : Waste Water Treatment and Restoration of River Environment)	Investments and Capacity Building Plans	-Proposal of investment plan (economic efficiency)
Strategic Road Map for improving the Water Governance Tools and IWRM planning mechanisms (IWRM spirale)	Strategic Road Map covering the full steps	(Strategic steps defined in POLA, RBO set up and IWRM mechanisms implementation on going) Focus on specific themes with necessary investment and capacity development planning	Pre-feasibility study and investment planning

Group discussion result

(a) how to strengthen function and effectiveness of RBO

- i. Securing regal status with clear mandate**
- ii. Mobilize adequate human and financial resources
self sustainability mechanism
generation of revenues through fees/cost recovery**
- iii. Reduce gap between government and general public**
- iv. Knowledge sharing and professional power**
- v. Data sharing and networking**
- vi. Function---update information, interaction among stakeholders,
implementation of basin plan, Proper monitoring and evaluation,
co-ordination (government-users-NGO)**
- vii. Effectiveness---monitoring ,leadership**

Group discussion result

(b)What is key for success to improve water security and who should act for what?

- i. Political willingness**
- ii. Sustainable knowledge**
- iii. Issue knowledge ---Basin profile**
- iv. Ownership of stakeholders**
- v. Technologies**
- vi. TA support to step forward**

Who? ---what if no RBO?

- i. Government agencies**
- ii. Local government**
- iii. Private sector**
- iv. Local communities**

But with no RBO, these are not easy to build

Group discussion result

(c)What is major points of TA output worth to be disseminated?

- i. Inclusive Process**
Stakeholder involvement both in government level and stakeholder level ; task forth in Nepal, TKPSDA and watershed conservation platform in Indonesia
- ii. RBO, laws mandate; Indonesia, Basin plan and master plan preparation; Strategic roadmap and investment plan in Nepal, Based on Pola(strategic plan) and Input to Rencana/action plan in Indonesia.**
- iii. Improve Water use efficiency of irrigation scheme; water distribution in canal in Indonesia, water saving technology(drip irrigation) in Uzbekistan,**
- iv. Secure safety management and proper operation of hydro technical facilities; irrigation facilities in Uzbekistan, Dam inspection/monitoring scheme and practical manual in Indonesia**
- v. Enhance watershed conservation; formulate platform and ideas; Indonesia**
- vi. River environment plan; preparatory environment plan in Nepal**
Inclusive process, institutional mechanism, can not ignore infrastructure

Dissemination of the TA outcome to other basins/countries of participants would be a next step to improve water security in the region,

Coordination with NARO activities are effective measure to be considered.

Thank you very much

