

APPENDIX

Appendix 1

NARBO Charter

February 2004

(Revised February 2006)

(Revised February 2008)

Introduction

The world community has recognized the importance of managing water resources in a more integrated manner. Over the past decades, a series of regional and global water conferences, including the World Water Forums in 1997, 2000, and 2003, have underlined the need to adopt and operationalize the approach of integrated water resources management (IWRM), which is defined by the Global Water Partnership as “a process to improve the planning, conservation, development, and management of water, forest, land, and aquatic resources in a river basin context, to maximize economic benefits and social welfare in an equitable manner without compromising the sustainability of vital environmental systems.”

By focusing on the management of water and related resources in a river basin context, it is implied that IWRM will be undertaken at basin level with the involvement of stakeholders at the basin level. The water conference in Dublin in 1992 referred to the need to manage water resources at the lowest appropriate level. This has become one of the basic principles underpinning the IWRM approach, and it has led to increased recognition that river basin organizations (RBOs) can realize IWRM at the basin level. Since Dublin, the world community has also recognized the importance of promoting gender and development work as part of the IWRM approach to ensure that women participate in water management at all levels.

Many forms of RBOs have been established in recent decades, and countries have developed various governance approaches for RBOs, for example, river basin commissions in the People’s Republic of China, river basin parliaments in France, river basin committees in Australia, river basin authorities in the United States and Sri Lanka, a lake basin development authority in the Philippines, water resources public corporations in Japan and Indonesia, inter-state RBOs like the river basin tribunals in India and the Murray-Darling Basin Commission in Australia, and international RBOs in the Mekong basin, the Syr and Amu Darya basins, and in the Tumen basin.

Some RBOs were established decades ago and have ceased to exist, while many new RBOs have been established recently. Some RBOs have a large

technical capacity, employing thousands of staff, while others may employ just a handful, like the newly established river basin committees in Southeast Asia. While there are many differences between these RBOs, they share a common mission, which is to operationalize IWRM in their respective river basins.

A network to assist RBOs in Asia in their work of introducing and operationalizing the IWRM approach does not yet exist. Consequently, RBOs lack opportunities for exchanging information and experience on their operations, and access for their staff to training and capacity building that draws on the technical and non-technical experience in managing water resources in Asia.

The need for partnerships for action to achieve IWRM was recognized at the 3rd World Water Forum held in Kyoto, Osaka, and Shiga, in the Lake Biwa and Yodo River Basin, Japan, in March 2003, where it was noted that several developed and developing countries in Asia have already established RBOs to implement IWRM. The 3rd World Water Forum highlighted the need to support these RBOs through knowledge sharing and capacity building, especially in developing countries.

The 3rd World Water Forum also emphasized the contributions that IWRM can make to improve the water security of the poor, by incorporating the needs of the poor explicitly in water policies and management practices at all levels.

Recognizing the need for networking and capacity building in the implementation of IWRM, the Water Resources Development Public Corporation of Japan (recently reconstituted as the Japan Water Agency), the Asian Development Bank, and the Asian Development Bank Institute decided at the 3rd World Water Forum in March 2003 in Kyoto, Japan, to collaborate in launching a Network of Asian River Basin Organizations (NARBO), and a letter of intent was signed at the Forum on 21 March 2003.

Note: This Charter is intended to guide NARBO in its start-up phase, during which membership by RBOs and partner organizations will be promoted and initial activities started to meet immediate needs of RBOs for training and exchange of information and experience. It is expected that the Charter will be reviewed and revised by the NARBO General Meeting when membership has

grown, a program of activities is agreed and under implementation, and membership fees can be introduced.

Section 1. Denomination and Working Language

- (1) This new initiative is entitled the Network of Asian River Basin Organizations (hereafter NARBO).
- (2) The language to be used is English.

Section 2. Goal and Objective

The goal of NARBO will be to help achieve IWRM in river basins throughout Asia.

NARBO's objective will be to strengthen the capacity and effectiveness of RBOs in promoting IWRM and improving water governance, through training and the exchange of information and experience among RBOs and their associated water sector agencies and knowledge partner organizations in Asia and to advise on the establishment of RBOs in Asia.

Section 3. Activities

To promote IWRM in Asia, the focus of NARBO's activities will be as follows:

(1) Activities for the whole of NARBO

The activities joined by all members of NARBO will be as follows:

- (a) Advocacy and raising awareness for IWRM among RBOs, water sector apex bodies, and leading water sector agencies in the region, mainly through regional workshops.
- (b) Sharing of information, good practices, and lessons learned for IWRM among the participating organizations, mainly by operating

databases and a website for IWRM exchanging information, and by sending a newsletter by email as well as posting on the web site and holding (sub) regional workshops.

(2) Activities for regional areas of NARBO

RBOs, national and federal governmental organizations with expertise in IWRM, regional and interregional knowledge partner organizations for IWRM, and bilateral and multilateral development cooperation agencies, will be requested to support RBOs in Asia in the following types of activities.

- (a) Supporting NARBO members to improve water governance, including the enabling policy, institutional, and legal framework for IWRM, and the formulation of the action plans.
 - (b) Building capacity of RBOs in implementing IWRM, mainly through staff exchange and training among participating organizations.
 - (c) Supporting RBOs with technical advice in regard to the planning, conservation, development, and the proper and efficient operation and maintenance of water resources facilities, to improve IWRM.
 - (d) Fostering regional cooperation for improved management of water resources in transboundary river basins.
- (3) The scope of IWRM activities to be supported by NARBO will be approved by the NARBO General Meeting.
- (4) NARBO's activities will initially focus on the monsoonal areas of Asia.

Section 4. Organizations

Article 4.1. Membership

- (1) Membership will be open to the following types of organizations.

- (a) RBOs, defined as organizations that have been officially recognized by the government of their country as having a mandate to promote and implement IWRM at the river basin level.
- (b) National and federal/ provincial / local governmental organizations in charge of water administration in the countries which implement or are interested in promoting and implementing IWRM at the level of river basins. This includes water sector apex bodies and leading water agencies.
- (c) Regional knowledge partner organizations with expertise in promoting and supporting IWRM, such as international RBOs and research and training organizations.
- (d) Inter-regional knowledge partner organizations with expertise in promoting and supporting IWRM.
- (e) Bilateral and multilateral development cooperation agencies promoting and supporting activities related to IWRM at the level of river basins.

(2) Among these, the organizations under (1.a) are considered as RBO members and (1.b to 1.e) are considered as partner members. Partner members will participate in NARBO as promoters and supporters of IWRM and RBOs, and as knowledge partners to RBOs.

(3) If other organizations wish to join NARBO, it needs to be recommended by an existing NARBO member or government agency concerned, notified to the Secretary General (see “Article 4.4.”) and approved in the NARBO General Meeting (see “Article 4.2.”).

Note: (1.c) and (1.d) include regional and inter-regional nongovernment organizations (NGOs) with expertise in promoting and supporting IWRM. For participation of national NGOs, (3) will apply. Participation as an observer in NARBO General Meetings is also possible (See “Article 4.2 (2)”).

(4) Application for membership in NARBO

- (a) An application to join NARBO should be submitted to the Secretary General with a recommendation from a NARBO member or the government.
- (b) The Secretary General evaluates the application and confers with the Chairperson and the Vice-Chairperson with his/her comments.
- (c) The Chairperson makes the final decision.
- (d) The Secretary General notifies the result to the applicant organization.
- (e) When the applicant receives the approval, the applicant organization becomes the member.
- (f) The new member is introduced to the NARBO members.

(5) Withdrawal from NARBO

- (a) The following are grounds for a member to cease to be a NARBO member:
 - (i) The member applies for withdrawal from NARBO membership;
 - (ii) The member organization is abolished; and
 - (iii) The member organization undertakes activities contradictory to the principles of NARBO.
- (b) When a member matches to one of these grounds, the Secretary General evaluates the ground and confers with the Chairperson and the Vice-Chairperson with his/her comments.
- (c) The Chairperson makes the final decision.

(d) The Secretary General notifies the result to that organization.

(6) Member's obligation

- (a) Members will participate in NARBO activities of their interest with commitment to use their own resources and to work effectively in partnership with other organizations that are collaborating in the network. Members will support the objectives of NARBO and will comply with its rules and regulations.
- (b) RBO members are obliged to submit an annual report to the Secretary General once a year within 3(three) months after their yearly fiscal year, in which their plan, scope of action, major activities, and issues are summarized. The report will be submitted in English.
- (c) The NARBO members are required to pay an annual membership fee. The amount and schedule of payment will be approved by NARBO General Meeting.

Note: For the time being, no membership fees are being considered.

Article 4.2. NARBO General Meeting

(1) Venue and Date

- (a) The NARBO General Meeting is held, in principle, every two years.
- (b) In principle, the General Meeting is held in the Chairperson's country, except as otherwise determined by the Chairperson. The dates are proposed jointly by the Chairperson and the Secretary General.
- (c) An extraordinary NARBO General Meeting can be convened at the request of the Chairperson, Vice-Chairperson, Secretary General or NARBO Secretariat before the next General Meeting, if there is a specific reason or if there are important issues to be solved urgently.

ii) The decision of the venue and date is the same as the decision for a General Meeting.

(d) The venue, date and agenda of General Meeting shall be distributed with an appropriate advance notice.

(2) Participation

Members, technical advisory committee members, and observers may attend the NARBO General Meeting. Observers need endorsement from the NARBO Secretariat and the local organizing committee hosting the NARBO General Meeting.

(3) Agenda of the NARBO General Meeting

(a) Two year action report and future action program of NARBO

(b) Reports by members on matters related to activities of NARBO

(c) Selection and replacement of Chairperson, Vice-Chairperson, Secretary General and Vice-Secretary Generals

(d) Approval and revision of the Charter

(4) Approval

The approval of the NARBO General Meeting is based on consensus between the attending members.

Article 4.3. Chairperson and Vice-Chairperson

(1) Nomination and Selection of the Chairperson and the Vice-Chairperson

(a) The Chairperson and the Vice-Chairperson are nominated by the Secretariat and selected by the NARBO General Meeting.

(b) In case the Chairperson is or becomes unable to perform his / her function as Chairperson, the Vice-Chairperson will exercise the

function and responsibility of the Chairperson until a Chairperson is selected at the next NARBO General Meeting.

(c) The Chairperson will be deemed to be unable to perform his/her function as Chairperson if (i) The Chairperson declares that he/she is unable to perform his/her function as Chairperson; or (ii) The Secretariat recognizes that the Chairperson is unable to perform his/her function as Chairperson.

(d) In case the Vice-Chairperson is or becomes unable to perform his/her function as Vice-Chairperson, an Acting Vice-Chairperson is nominated by the Secretariat and appointed by the Chairperson for a period extending until a Vice-Chairperson is selected at the next NARBO General Meeting.

(e) The Vice-Chairperson will be deemed to be unable to perform his/her function as Vice-Chairperson if (i) The Vice-Chairperson declares that he/she is unable to perform his/her function as Vice-Chairperson; or (ii) The Secretariat recognizes that the Vice-Chairperson is unable to perform his/her function as Vice-Chairperson.

(2) Responsibility of Chairperson

The Chairperson leads the NARBO General Meeting and guides NARBO activities until the next General Meeting.

(3) Responsibility of Vice-Chairperson

(a) Assist the Chairperson

(b) Substitutes for the Chairperson when he/she is not available

(4) NARBO Senior Adviser

(a) Secretary General may invite the Chairperson to become NARBO Senior Adviser at the completion of Chairpersons term. A NARBO

Senior Adviser is expected to advise the Chairperson and Secretariat in promoting and enhancing NARBO activities.

- (b) A NARBO Senior Advisor is expected to serve for a period of 2 years, with possible extension.

Article 4.4. Secretariat

(1) Responsibilities of the NARBO Secretariat

(a) Initiatives and Activities of NARBO

- (i) Collection of relevant information and coordination with related organizations, including participation in relevant meetings
- (ii) Preparation of the documents needed for and writing reports of the NARBO General Meeting
- (iii) Preparation of two-year action report and action program
- (iv) Operation and management of the NARBO web site and other communication facilities
- (v) Advice on the enabling policy, institutions and efficient operation to improve IWRM and on the establishment and capacity building of RBOs in implementing IWRM (subject to available resources of NARBO to provide advice through cost-effective means)
- (vi) Organization of other NARBO initiatives and activities

(b) Logistics Service for NARBO

- (i) Contacts and coordinates the members
- (ii) Handles the administration, including registration of members, accounting, document preparation etc.

(2) Composition and Location of the NARBO Secretariat

- (a) The NARBO Secretariat is composed of the Japan Water Agency (JWA), the Asian Development Bank Institute (ADBI), both in Japan, and the Asian Development Bank (ADB), in Philippines.
- (b) The Headquarters of the Secretariat is located in JWA and its branches are located in ADBI and ADB. Secretariat staff are nominated by the Secretary General in consultation with JWA, ADBI and ADB.
- (c) Any organization in the NARBO Secretariat may resign its function at any time without condition.

(3) Nomination and approval of the Secretary General and the Vice-Secretary Generals.

- (a) The Secretary General and the Vice-Secretary Generals are nominated by the Secretariat and approved at the NARBO General Meeting.
- (b) In case the Secretary General or any Vice-Secretary Generals is or becomes unable to perform his/her function, an Acting Secretary General or an Acting Vice-Secretary General, as the case may be, is nominated by the Secretariat and appointed by the Chairperson for a period extending until the Secretary General or the Vice-Secretary General is selected at the next NARBO General Meeting.
- (c) The Secretary General or a Vice-Secretary General will be deemed to be unable to perform his/her function if (i) he/she declares that he/she is unable to perform his/her function as the Secretary General or the Vice-Secretary General; or (ii) The Secretariat recognizes that the Secretary General or such Vice-Secretary General is unable to perform his/her function as

the Secretary General or the Vice-Secretary General.

(4) Responsibilities of the Secretary General

- (a) Initiates and manages NARBO's initiatives and activities.
- (b) Convenes the NARBO Meeting and sets its agenda in consultation with the Chairperson
- (c) Supervises the Secretariat's work

(5) Responsibilities of the Vice-Secretary Generals

- (a) Supports the Secretary General
- (b) Substitutes for the Secretary General when necessary

Article 4.5. NARBO Patron

The Chairperson may invite a person of high public stature and influence to take on the role of NARBO Patron. A NARBO Patron is expected to represent and promote NARBO and its objectives and activities in the region and world, specifically to leaders, policy makers, media, and the general public. The patron may also be requested to advise NARBO on its work.

Article 4.6. Technical Advisory Committee

- (1) A Technical Advisory Committee may be convened by the Secretary General. The Committee will be composed of individuals and organizations who can advise and support NARBO in its activities. Its task is to extend the financial and the technical support for the implementation of regional activities of NARBO.
- (2) The statute of the committee will be approved by the NARBO General Meeting.

Section 5. Resources

- (1) Financial and human resources to support NARBO activities will be provided from the following sources:
- (2) The Members of NARBO will voluntarily provide resources in cash and kind to support NARBO activities in which they are interested to participate.
- (3) Costs (personnel and traveling expenses) of the NARBO Secretariat will be provided by JWA, ADB, and ADBI who will mobilize financial resources for this purpose. Travel expenses for the Chairperson and Vice-Chairperson will be provided by JWA for travel approved by JWA.
- (4) NARBO activities will be financed by JWA, ADBI, ADB, bilateral and multilateral agencies to be identified, and NARBO Members, on a parallel co-financing basis.
- (5) ADB may be requested by the NARBO General Meeting to convene a NARBO Financial Support Group of interested bilateral and multilateral organizations to help support NARBO activities.

Appendix 2

Action Plan -2008~2009-

Network of Asian River Basin Organizations (NARBO)

ACTION PLAN 2008-2009

Key Result Areas:

- A. Advocacy, Raising Awareness, and Exchange of Information and Good Practices on Integrated Water Resources Management (IWRM)
- B. Capacity Building in River Basin Organizations (RBOs)
- C. Network Support

As of February 27

A. Advocacy, Raising Awareness, and Exchange of Information and Good Practices on IWRM				
Activity	Remarks	Implementation Plan	Lead Agency	Note
Activities led by the NARBO Secretariat (JWA, ADBI, ADB): <ol style="list-style-type: none"> 1. NARBO Website (http://www.narbo.jp) <ul style="list-style-type: none"> • Provide information, news and reminders on NARBO activities • Provide information on introducing IWRM in river basins in Asia, including publications, case studies, articles on important IWRM topics • Link to NARBO member websites, e-newsletters, online databases, and other related sites 	Managed by JWA in collaboration with ADB and ADBI and with input from NARBO members	<ul style="list-style-type: none"> • Continue regular updates • Introduce on-line forum to enhance information and knowledge sharing 	JWA	Members are encouraged to provide stories, cases, articles, and links
2. NARBO e-Newsletter Share good practices, lessons learned, IWRM-related activities, etc.	Prepared quarterly by JWA and distributed through e-mail and the website	Prepare stories and materials on priority topics of interest to NARBO members	JWA	Members are encouraged to send in contributions

3. Guidelines and Online data base Provide guidelines and other useful reference materials on IWRM practices, cases, lessons learned, champions, standards and manuals, annual reports, topics of interest	Managed by JWA, ADBI, and ADB through website and CDs	Formulate guidelines and continue collecting and updating information from members and partners	ADBI, JWA, Knowledge Hub	Members are encouraged to provide materials
4. NARBO Annual Report Summarize NARBO's activities and results annually	Prepared by JWA with inputs from members, and distributed through hardcopies and the website	Distribute annual report in May of following year	JWA	Members to submit their annual reports no later than end March
5. NARBO Promotion <ul style="list-style-type: none"> • Increase governments, public, and media interest in NARBO activities and increase NARBO membership • Disseminate key messages on introducing IWRM in river basins and RBO work • Promote NARBO's objectives and activities 	Managed by JWA and ADB	<ul style="list-style-type: none"> • Promote NARBO work through media, country visits, regional events, and knowledge networks • Invite RBOs in development projects to join NARBO • Invite knowledge partner organizations to join NARBO • Encourage national NARBO networks in countries with many RBOs 	JWA, ADB, Chair, NARBO Indonesia	Members are encouraged to contribute to the promotion and dissemination work, and to increase NARBO membership. NARBO Indonesia to pilot country RBO network.
6. NARBO General Meeting Organize every two years, including study visit in host river basin, IWRM workshops, and general meeting	Managed by JWA, ADBI, and ADB in collaboration with the host RBO	Organize the 4 th NARBO General Meeting in the 1 st quarter of 2010	Chair, Vice-Chair, NARBO Secretariat	Members are encouraged to participate and share their knowledge
7. Knowledge Networking Facilitate and support regional water knowledge hubs under the Asia-Pacific	Managed by ADB and JWA	<ul style="list-style-type: none"> • Support the new regional knowledge hub on river basin 	ADB, JWA, Knowledge	ADB and JICA TA projects to

Water Forum			<p>organizations and management in Indonesia in developing knowledge products and services for government and RBO clients in the region</p> <ul style="list-style-type: none"> • Pilot a Roadmap Advisory Service to help RBOs prepare long-term IWRM investment programs • Chart and analyze regional progress of introducing IWRM in river basins • Collaborate with the other APWF regional water knowledge hubs on IWRM in river basins • Enhance dissemination of IWRM experience in basins within Indonesia through new dissemination unit (by JICA) 	Hub , JICA	support the knowledge hub are expected to start in 2 nd quarter of 2008. Other donors to be encouraged to provide complementary assistance. Involve ICHARM, K-Water, YRCC, NAHRIM, IRTCES and other hubs in collaboration.
Activities led by NARBO Member Organizations:					
1. NARBO members' websites Develop and maintain websites with useful information and knowledge products on introducing IWRM in their respective river basins	Managed by member RBOs		Develop, maintain, and update the website on a regular basis	Members	Members to develop and maintain modern websites
2. NARBO members' Annual Report Prepare annual report with overview of RBO's objectives, targets, activities, lessons learned, and performance improvements in introducing IWRM in their respective river basins	Prepared by NARBO members annually, and sent to NARBO Secretariat at JWA no later than March of the following year		Prepare annual report and send to NARBO Secretariat	Members	Members are encouraged to invest in useful annual reports

B. Capacity Building in River Basin Organizations (RBOs)				
Activity	Remarks	Implementation Plan	Lead Agency	Note
Activities led by the NARBO Secretariat: 1. IWRM Training Program Develop the capacity of NARBO member staff in understanding and implementing IWRM in their respective river basins	<ul style="list-style-type: none"> Managed by NARBO Secretariat Conducted once or twice a year 	<ul style="list-style-type: none"> NARBO Technical Advisory Committee to guide an overhaul of the program design Redesigned program to be conducted in 4th quarter 2008 	JWA, ADB, ADBI, Technical Advisory Committee, Knowledge Hub	Members to facilitate their staff to apply and contribute registration fee
2. Workshops <ul style="list-style-type: none"> Organize IWRM workshops on topics of interest during the NARBO general meeting Organize thematic workshop series, based on demand, to deepen understanding on priority topics 	Lessons learned from thematic workshops on water rights, facility management and disaster management will be used in designing the subsequent workshop series	<ul style="list-style-type: none"> Conduct 4th workshop on Sustainable management for Water Resources Infrastructure in 1st qtr 2008 Conduct 2nd workshop on disaster management by 2nd qtr 2008, and others tbd Conduct workshop on Climate Change Adaptation by NARBO Indonesia and Regional Water Knowledge Hub 	JWA, ADB, ADBI, NARBO Indonesia, Knowledge Hub	Members to attend and contribute knowledge on issues and solution strategies
3. Performance Benchmarking supported by peer reviews <ul style="list-style-type: none"> Provide a demand-based performance benchmarking service for RBOs to assess and improve their performance Introduce a river basin performance benchmarking methodology 	Managed by ADB and IWMI, with certification training and peer reviewers, facilitation of peer reviews, and support for pilot-testing of basin benchmarking methodology, in collaboration with the Knowledge Hub	<ul style="list-style-type: none"> Expand implementation of RBO performance benchmarking based on experience gained in pilot phase, to X RBOs Conduct pilot test of river basin performance benchmarking in X river basins 	ADB, IWMI, Knowledge Hub	Number of participating RBOs and basins to be determined during 3 rd NARBO GM
4. Advisory visits to RBOs <ul style="list-style-type: none"> Visit RBOs to learn from their 	Where possible linked to RBO	Continue and enhance benefits	JWA, ADB,	Knowledge Hub to

experience in implementing IWRM, and promote knowledge generation and sharing	exchange visits initiated by members	from such visits, with feedback received during 3 rd NARBO General Meeting	ADBI, Chair, Knowledge Hub	join visits for piloting Roadmap Advisory Service for RBOs
5. Scholarship Programs Explore opportunities for member RBO staff to join existing scholarship programs for IWRM courses	By JWA, ADBI, ADB and knowledge partner members	Share information on IWRM courses and existing scholarship programs, through NARBO website	JWA, ADB, ADBI	Including online distance learning programs
Activities led by NARBO Member Organizations:				
1. Regional Water Knowledge Hubs under APWF Provide demand-based knowledge and capacity development services that meet NARBO member clients needs	By concerned APWF regional water knowledge hubs, each of which will develop a network of clients and partners on their topic (knowledge domain)	Member RBOs to explore developing client and partner relationships with relevant APWF hubs for specific services they need	Members, APWF Knowledge Hubs	Use development project budgets to pay for services provided by the hubs
2. Twinning Programs Organize mutually beneficial programs for knowledge sharing and capacity development, involving exchange visits, staff exchange, and joint projects	Initiated, arranged and financed by RBO members themselves	Explore further programs based on member interest, and learning lessons from existing programs between RBOs from Indonesia and JWA and K-Water	Members	NARBO Secretariat can facilitate initial contacts
3. ISO certification Explore opportunities to gain ISO certification for good performance in achieving standards of excellence	Members to exchange information and experience	ISO certified member RBOs in Indonesia (PJT 1 and 2) can provide information to other members	Members, PJT 1, 2	NARBO Secretariat can post information on the website

<p>4. Transboundary Water Management</p> <p>Explore opportunities to foster transboundary water resources management (within and between countries) through information sharing and exchange of experience</p>	<p>To be conducted by interested member RBOs and riparian authorities who <u>jointly</u> agree to explore such collaboration</p>	<p>Contribute good practice cases as inputs for regional study on charting progress in IWRM in river basins in the region</p>	<p>Members, Knowledge Hub</p>	<p>The Mekong River Commission Secretariat has been approached as candidate APWF regional knowledge hub for this topic</p>
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C. Network Support					
Activity	Remarks	Implementation Plan	Lead Agency	Note	
1. Technical Advisory Committee Provide guidance to ensure quality of NARBO's IWRM Training Program, and on strategic direction of NARBO's activities	Guidelines for the TAC to be finalized in 2008	TAC to be established in 2 nd quarter of 2008 to guide the overhaul of NARBO's IWRM Training Program	ADB, ADBI, JWA, Chair	Heads of regional water knowledge hubs to be involved	
2. Charting Progress and Facilitating Investment for IWRM Catalyze further investments in IWRM and demonstrate good practices in introducing IWRM in river basins across the region	Regional TA project formulated by ADB to help member RBOs	Implement TA project through regional water knowledge hub in Indonesia over period 2008-2010	ADB, Knowledge Hub	Update to be provided to 3 rd NARBO General Meeting	
3. Collaboration with International Networks Collaborate with GWP, INBO, CapNet, If-net, Aguajaring, and others as needed.	JWA, ADBI, and ADB to manage	Coordinate activities as needed	JWA, ADBI, ADB	Share IWRM experience	

Appendix 3

NARBO Members' List

List of NARBO Member and Organizations Interested to become member

February 22, 2008

Category	Member	(Interested)
River Basin Organization (RBO)	22	4
Government Organization (GOV)	17	4
Regional Knowledge Partner (RKP)	17	1
Inter-Regional Knowledge Partner (IRKP)	8	0
Development Cooperation Agency (DCA)	1	0
Total	65	9

Classification	Country/Region		Organization	Representative/Signatory	Position
Member	Indonesia	M	Jasa Tirta I Public Corporation (PJT I)	Mr. Tjoek Walujo Subijanto	President Director
	Indonesia	M	Jasa Tirta II Public Corporation (PJT II)	Mr. Djendam Gurusinga, Dipl.HE	President Director
	Indonesia	M	Jragung-Tuntang Basin Water Resources Management Unit (BWRMU) (Balai PSDA Jragung-Tuntang)	Mr. Tri Widodo D.	Head
	Indonesia	M	Balai Besar Wilayah Sungai Bengawan Solo	Mr. Imam Agus Nugroho	Head
	Indonesia	M	Balai Besar Wilayah Sungai Pompengan Jeneberang	Mr. Bambang Sigit Suryono	Head
	Indonesia	M	River Basin Water Resources Management Unit Pekalan Sampean (PSDA)	Mr. Wahjoe Pribowo	Head of PSAWS
	Indonesia	M	Balai Pengelolaan Sumber Daya Air Ciujuung-Ciliman Banten (BPSDA)	Mr. Winarjono	Head of DPU
	Indonesia	M	Sermo Water Resources Management Unit (BPSDA)	Mr. Purwoko	Head
	Indonesia	M	River Basin Water Resources Management Unit Citarum (PSDA)	Mr. Rustam Suharman	
	Japan	P	Japan Water Agency (JWA)	Mr. Toshiki Aoyama	President
	Korea	M	Korean Water Resources Corporation (K water)	Dr. Ko Ich Hwan	Director, Hydrosystem Engineering Center

	Laos	M	Nam Ngum River Basin Development Sector Project	Mr. Thatheva Saphangthong	Coordinator, Integrated Watershed Management Unit
	Malaysia	M	Selangor Water Management Authority (SWMA)	Mr. Azizah Binti Yusof	Acting Director
	Pakistan	M	Indus River System Authority (IRSA)	Mr. Fida Hussain	Senior Engineer
	Philippines	M	Laguna Lake Development Authority (LLDA)	Ms. Dolora Nepomuceno	Assistant General Manager
	Sri Lanka	M	Mahaweli Authority of Sri Lanka (MASL)	Mr. K. W. Ivan de Silva	Director General
	Thailand	M	Bang Pakong River Basin Committee (BPRBC)	Mr. Pathai Punturothai	Director, Division of Coordination and Management
	Viet Nam	M	Cuu Long & Dong Nai River Basin Organization	Mr. To Van Truong	Chief of Office
	Viet Nam	M	Red River Basin Organization (RRBO)	Dr. To Trung Nghia	Chief of Office
	Viet Nam	M	Day River Basin Organization	Mr. Le Duc Nam	Deputy Director of WRD, MARD
	Viet Nam	M	Vu Gia Thubon River Basin Organization	Mr. Nguyen Van Sinh	Chief of GORBO's Secretariat Board
	Southeast Asia	M	Mekong River Commission Secretariat (MRC)	Mr. Jeremy Bird	Chief Executive Officer

Classification	Country/Region		Organization	Representative/Signatory	Position
Member GOV	Bangladesh	M	Bangladesh Water Development Board (BWDB)	Mr. H. S. Mozaddad Faruque	Director General
	Bangladesh	M	Local Government Engineering Department (LEGD)	Mr. Md. Shahidul Hasan	Chief Engineer
	Cambodia	M	Ministry of Water Resources and Meteorology (MOWRAM)	Dr. Theng Tara	Director, Department of Water Resources Management and Conservation
	Cambodia	M	Department of Hydrology and River Works (DHRW)	Mr. Long Saravuth	Deputy Director
	Indonesia	M	Directorate General of Water Resources (DGWR)	Mr. Imam Anshori	Director of Water Resources Management

Indonesia	M	Water Resources Development, West Nusa Tenggara Province	Mr. Djatal	Chief
Japan	M	Water Resources Department, Land and Water Bureau, Ministry of Land, Infrastructure, Transport and Tourism	Mr. Kunihiro Moriyasu	Deputy Director
Laos	M	Water Resources Coordination Committee Secretariat	Mr. Phonechaleun Nonthaxay	Director General
Malaysia	M	Department of Irrigation and Drainage (DID Malaysia)	Mr. Ahmad Husaini bin Sulaiman	Director General
Philippines	M	National Water Resources Board (NWRB)	Mr. Ramon Alikpala	Executive Director
Philippines	M	Department of Environment and Natural Resources (DENR)	Ms. Analiza Rebuella Teh	Assistant Secretary, Foreign Assisted & Special Project Office
Sri Lanka	M	National Water Resources Authority (NWRA)	Mr. Ananda. H. Jayaweera	Director
Thailand	M	Department of Water Resources, Ministry of Natural Resources and Environment (DWR, MoNRE)	Mr. Adisak Thongkaimook	Director General
Viet Nam	M	Department of Water Resources Management, MoNRE (General Office for RBO, WRD, MARD)	Mr. Le Duc Nam	Deputy Director of WRD, MARD
Viet Nam	M	General Office for RBOs in Viet Nam (GO-RBO)	Dr. Vu Van Thang	General Director, Water Resources Department
Viet Nam	M	Southern Institute for Water Resources Planning (SIWRP), Ministry of Agriculture & Rural Development (MARD)	Mr. To Van Truong	Chief of Office
Viet Nam	M	Department of Natural Resources and Environment of Dong Nai Province	Mr. Phan Van Het	Vice Director

Classification	Country/Region		Organization	Representative/Signatory	Position	
Member	RKP	South-east Asia	M	Global Water Partnership (GWP) SEA RWP	Mr. Siswoko Sastrodihardjo	Chairperson
		South Asia	M	Global Water Partnership (GWP) SAS RWP	Mr. Suresh Prabhu	Regional Chairperson
		South Asia	M	South Asia Network of River Basin Organization (SASNET-RBO)	Mr. Don Clement Sudharma Elakanda	Network Coordinator SASNET-RBO
		South Asia	M	The Capacity Building Network for Integrated Water Resources Management South Asia (CapNet SA)	Dr. Jasveen Jairath	Regional Coordinator
		Bangladesh	M	Institute of Water Modeling (IWM)	Mr. Emaduddin Ahmad	Executive Director
		Indonesia	M	Indonesia Water Partnership (InaWP)	Mr. Achmadi Partowijoto	Member of Trustee
		Indonesia	M	The Foundation on Water Affairs ADHI EKA	Mr. Kusdaryono Sutosuromo	Chairman of the Executive Board
		Indonesia	M	Faculty of Engineering, Brawijaya University	Dr. Agus Suharyanto	Vice Dean for Academic Affairs
		Indonesia	M	Research Centre for Water Resources (RCWR)	Dr. Arie Setiadi Moerwanto	Director
		Indonesia	M	Center for Environment & Civil Engineering Research	Dr. Indreswari Guritno	Head of the Water Resources & coastal engineering science group
		Indonesia	M	Post Graduate Study on Water Resources Management Faculty of Engineering Gadjah Mada University	Dr. Budi Wignyosukarto	Senior Lecturer
		Indonesia	M	SEMBRANI foundation	Mr. Mardjono Notodiharjono	Chairman
		Japan	M	JAWA - Japan Water Resources Association	Dr. Toru Kondo	President Director
		Japan	M	Japan River Restoration Network (JRRN)	Dr. Nobuyuki TAMAI	Chairperson
		Japan	M	Graduate School of Management, Kyoto University	Dr. Kazuo YOSHIDA	Dean
		Malaysia	M	National Hydraulic Research Institute of Malaysia (NAHRIM)	Dr. Salmah Zakaria	Director
	IRKP	Thailand	M	Thailand Water Resources Association (TWRA)	Dr. Apichart Anukulamphai	President
Inter-region		P	Asian Development Bank Institute (ADBI)	Dr. Masahiro Kawai	Dean	
Inter-region		M	Asia Pacific Association of Hydrology and Water Resources (APHW)	Dr. Katsumi MUSHIAKE	Secretary General	

	Inter-region	M	International Centre for Water Hazard and Risk Management (ICHARM)	Dr. Kuniyoshi TAKEUCHI	Director
	Inter-region	M	International Research and Training Center on Erosion and Sedimentation (IRCES)	Dr. Prof. Hu Chunhong	Secretary General
	Inter-region	M	IUCN - The World Conservation Union	Dr. John Dore	Leader, Asia Water & wetlands Program
	Inter-region	M	International Water Centre (IWC)	Mr. Mark Pascoe	Chief Executive Officer
	Inter-region	M	International Water Management Institute (IWMI)	Mr. Andrew Noble	Head IWMI-SEA
	Inter-region	M	The World Wildlife Fund International (WWF International)	Dr. Isabella Louis	Director, Asia Pacific Region
	DCA Inter-region	P	Asian Development Bank (ADB)	Mr. Jan P. M. van Heeswijk	Director General

Classification	Country/Region		Organization	Representative	Position
Interested	Indonesia	I	Balai Besar Wilayah Sungai Brantas	Ir. Sugianto, M. Eng	Head
	Indonesia	I	Balai Besar Wilayah Sungai Mesuji Sekampung	Ir. Hartanto, Dipl. HE	Head
	Pakistan	I	Water and Power Development Authority	Mr. M Mushtaq Chaudhry	General Manager (P&D)
	Thailand	I	Ping River Basin Committee	Ms. Supaporn Thongpook	President & Coordinator
	Bangladesh	I	Joint River Commission	Mr. Mir Sajjad Hossain	Director
GOV	China	I	Haihe River Water Resources Commission, Ministry of Water Resources	Mr. Liu Chang Zhong	Senior Engineer
	China	I	Taihu Basin Authority, Ministry of Water Resources	Mr. Gong Zheng	Engineer
	China	I	Yellow River Conservancy Commission (YRCC), Ministry of Water Resources	Ms. Sun Feng	Director, Division of International Cooperation
RKP	Japan	I	Ritsumeikan Asia Pacific University	Dr. Francisco P. Fellizar, Jr	Associate Professor

Note:

P = Promotor (Member)
M = Member

I = Interested to become a member

Appendix 4

Program of the 3rd General Meeting



PROGRAM

The Third General Meeting Network of Asian River Basin Organizations (NARBO)

Time	Activity/Agenda	Acting Person	Venue	Remarks
Tuesday, Feb 19	Arrival and Registration			
	Participants arrive in Surakarta			
13:30 – 16:00	Secretariat Meeting (venue to be determined)			NARBO staff only
18.45 – 21.30	Welcome Dinner		Graha Tirta	
18:45 – 19:00	Participants transported from Sunan Hotel to Graha Tirta, Surakarta			By bus and coach
19.00 – 19.10	Welcome remarks from the Jasa Tirta I President Director	Ir. Tjoek Walujo Soebijanto, CES		
19.10 – 19.30	Introduction remarks from the Regent of Wonogiri	Drs. Begug Purnomosidi, MM		
19.30 – 20.30	Dinner (traditional music and dances accompanying: gambyong and gamelan)			
20:30 – 21:30	Presentation & introduction to the study visit itinerary			
20:30 – 21.00	Group 1: Managing Water Allocation and Sedimentation by Jasa Tirta I Public Corportation	Ir. Erwin Budoyo, M.Eng		
21.00 – 21.30	Group 2: Facilitating IWRM in Planning and Implementation by Development Agency of Bengawan Solo	Ir. Imam Agus Nugroho, Dip.HE		
21:30	Participants transported back to Sunan Hotel			
Wednesday Feb 20	Study Visit			
07:45 – 08:00	Preparation for departure			
08:00 – 09:00	Travel to Wonogiri			By bus and coach
09:00 – 10:00	Meeting with the Wonogiri Regency Administration			
	Group 1: Sedimentation Problem & Water Allocation within the Bengawan Solo R.B.			
10:00 – 10:15	Travel to confluence of Keduang River & Wonogiri Dam	Accompanied by Ir. Aunur Rofiq, CES		
10:15 – 12:00	Site visit & dialogue	Hosted by Ir Erwin Budoyo, M.Eng & Ir. Harianto	Wonogiri Dam Office	PJT I & water user association
12:30 – 13:00	Lunch break			
13:00 – 14:00	Travel to Colo Weir			By bus and coach

Time	Activity/Agenda	Acting Person	Venue	Remarks
14:00 – 14:30	Site visit at Colo Weir		Colo Weir	Explanation on site
14:30 – 15:30	Travel back to the hotel			
	Group 2: Public Participation and Bottom-Up Approaches in Water Resources Planning			
10:00 – 10:45	Travel to Gemawang Village	Accompanied by Ir. Rochadi Masyhadi, Dip.HE		By bus and coach
10:45 – 12:00	Site visit at Gemawang & dialogue with stakeholders involved in the PCM process	Hosted by Ir. Tri Rohadi, Dip.HE	Gemawang Village Office	Ir. Edhie Subagio, Dip.HE & Ir. Suwartono, Dip.WR
12:00 – 12:30	Lunch break			
12:30 – 14:00	Continue dialogue with stakeholders			
14:00 – 15:00	Travel back to the hotel			
Thursday 21 Feb	Opening Program & IWRM Workshops			
08:00 – 09:00	Opening Program		Ball Room III	
08:00 – 08:10	Opening remarks by the NARBO Chairperson	Dr. Ir. M. Basuki Hadimoeljono, M.Sc.		
08:10 – 08:40	Keynote presentation 1 by Tokyo University	Dr. Tsuneaki Yoshida		
08:40 – 09:00	Official address by the HE Minister of Public Works	Representative of Mr. Djoko Kirmanto, Dip.HE		
09:00 – 09:15	Coffee Break			
09:15-12:00 Parallel Session	Workshop 1: Measuring the Performance of RBOs and River Basins	Chaired: Mr. Wouter Lincklaen Arriens Facilitator: Mr. Ian Makin	Ball Room II	
	Opening remarks	Mr. Wouter Lincklaen Arriens		
	Lessons learned from the 4 pilot RBO peer reviews	Dr. Arlene Inocencio		
	Exploring ways to benchmark river basin performance	Mr. Christopher Morris		
	Facilitated discussion further development and applications	Panelists: K.W. Ivan de Silva (MASL, Sri Lanka), Tjoek Walujo Subijanto (PJT I, Indonesia), Edgardo Manda (LLDA, Philippines), Djendam Gurusinga (PJT II, Indonesia), H. Hutagalung Waldemar (PJT II, Indonesia), Sukontha Aekaraj (MONRE- Thailand), Dr. Salmah Zakaria (NAHRIM, Malaysia), Jan Yap (Consultant, World Bank, Indonesia) Dr. Arlene Inocencio (IWMI)		
	Summary and Way Forward	Mr. Wouter Lincklaen Arriens		

Time	Activity/Agenda	Acting Person	Venue	Remarks
09.15-12.00 Parallel Session	Workshop 2: Managing Assets and Risks – chaired by JWA	Chaired by Mr. Miichio Oota, Facilitated by Mr. Bambang Hargono	Ball Room III	
	Keynote: by Kyoto University, Japan	Dr. Kiyoshi Kobayashi		
	Issues and solutions related to the sustainable management of water resources infrastructure in NARBO member organizations – by JWA (Japan)	Mr. Masahiro Sugiura		
	Outline of International Center for Water Hazard and Risk Management (ICHARM) activities – by ICHARM (Japan)	Mr. Akira Terakawa		
	Outline of International Research and Training Center on Erosion and Sedimentation (IRTCES) activities – by IRTCES (China)	Ms. Zhang Yanjing		
	Community based (flood hazard) early warning system – by Jasa Tirta I Public Corporation (Indonesia)	Mr. Widyo Parwanto		
	Study on the asset management of dams focused on the reservoir sediment management – by JWA and Kyoto University (Japan)	Mr. Hiroyuki Nakajima & Dr. Tetsuya Sumi		
12:00 – 13:00	Lunch Break		Rice Crispy	
13:00 – 17:00 Plenary Session	Workshop 3: Exploring New Challenges in IWRM	Chaired: Dr. M. Basuki Hadimoeljono Facilitator: Dr. M. Amron	Ball Room III	
13:00 – 14:30	Addressing issues and challenges in water rights and water allocation/review of thematic workshop on water allocation and water rights – led by Asian Development Bank (ADB) with ADB Institute and JWA	Mr. Wouter Lincklaen Arriens		
14:30 – 15:00	Facilitating IWRM with civil society and private sector participation – by Bengawan Solo River Basin Development Agency (Indonesia)	Mr. Tri Rochadi		
15:00 – 15:15	Coffee break			
15:15 – 16:00	Restoring the health of rivers – by Asian River Restoration Network (ARRN)	Mr. Akira Wada & Mr Masafumi Ito		
16:00 – 16:25	Sharing IWRM experience from other regions – by International Network of River Basin Organizations (INBO)	Dr. Jean F. Donzier		
16:25 – 17:30	Discussion			
19:30 – 21:30	Side event – NARBO Indonesia Meeting		Kono Room	
Friday 22 Feb	Third General Meeting		Ball Room III	
07:30 – 08:00	Registration			
08:00 – 09:00	Opening Program			
08:00 – 08:15	Opening address – by NARBO Chairperson	Dr. Ir. M. Basuki Hadimoeljono, M.Sc.		
08:15 – 08:30	Remarks on Japan's support for IWRM in Asia – by Director General of Water Resources, Ministry of Land, Infrastructure and Transportation (MLIT) Japan	Mr. Shuhei Kazusa		
08:30 – 09:00	Keynote presentation on water and climate change – by Director General, National Hydraulic Research	Dr. Ir. Salmah Zakaria		

Time	Activity/Agenda	Acting Person	Venue	Remarks
	Institute of Malaysia (NAHRIM) and head of Asia Pacific Water Forum's candidate regional knowledge hub on climate change			
09:00 – 12:00	Report on NARBO Activity 2006-2007	Chaired by the Chairperson NARBO (Mr. M. Basuki Hadimoeljono), Vice-CP (Mr. Ivan da Silva), Secretary General (Mr. Yasutaka Hamada)		
09:00 – 09:05	Introduction by ADB	Mr. Michitaro Nakai		
09:05 – 09:10	Overview – by NARBO Secretary General	Mr. Yasutaka Hamada		
09:10 – 09:25	Newsletter and Website – by JWA (Japan)	Mr. Akira Nishimura		
09:25 – 09:35	IWRM Training Programs – by Mahaweli Authority (Srilanka)	Mr. Elakanda Sudharma		
09:35 – 09:50	Twining Program – by Jasa Tirta II Public Corporation (Indonesia)	Mr. Djendam Gurusinga		
09:50 – 10:20	Coffee Break			
10:20 – 10:35	K-Water's collaboration activity in Citarum River Basin (including proposed K-Water training workshop in Taejon) – by K-Water (South Korea)	Dr. Ick Hwan Ko		
10:35 – 10:45	Thematic Workshop – by JWA and ADB	Mr. Michitaro Nakai		
10:45 – 10:55	NARBO performance benchmark peer review – by ADB HQ	Mr. Ian Makin		
10:55 – 11:05	NARBO at the Asia Pacific Water Summit – by JWA (Japan)	Mr. Michio Oota		
11:05 – 11:10	NARBO Promotion Activity – by JWA	Mr. Shinobu Ifuji		
11:10 – 11:25	NARBO and Regional Water Knowledge Hubs – by ADB HQ	Mr. Wouter Lincklaen Arriens		
11:25 – 11:30	Report on NARBO Survey	Mr. Michitaro Nakai		
11:30 – 12:00	Plenary Discussion	NARBO Secretariat		
12:00 – 13:00	Lunch Break		Rice Crispy	
13:00 – 13:05	Introduction	Mr. Michitaro Nakai	Ball Room III	
13:05 – 13:30	Introduction of New NARBO Members Recognition, introduction and approval – by NARBO Secretariat	Mr. Wouter Lincklaen Arriens		
13:30 – 13:35	Overall Review on NARBO's Program 2008-2009	Mr. Yasutaka Hamada		
13:35 – 13:45	Briefing on Workplan 2008-2009	Mr. Michitaro Nakai		
13:45 – 15:20	Briefing on New Programs (2008-2009)			
13:45 – 13:55	Charting Progress and Facilitating Investment for IWRM (10 minutes)	Mr. Wouter Lincklaen Arriens		
13:55 – 14:05	Preparation of Guidelines for IWRM at River Basin Level (10 minutes)	Mr. Michio Oota		
14:05 – 14:15	Asian Regional Knowledge Hub on RBO Management (10 minutes)	Mr. Ari Setiadi, Ministry of Public Works (Indonesia)		
14:15 – 14:25	NARBO IWRM Training & Technical Advisory	NARBO Secretariat		

Time	Activity/Agenda	Acting Person	Venue	Remarks
	Committee (TAC) (10 minutes)			
14:25 – 14:35	Thematic Workshop on adaptation for Climate Change (10 minutes)	Indonesia NARBO		
14:35 – 15:20	Plenary Discussion (45 minutes)	NARBO Secretariat		
15:20 – 15:35	Coffee Break			
15:35 – 15:55	NARBO Charter Revision – by NARBO Secretariat	Chaired by: Vice-Secretary General NARBO (Mr. Michio Oota) & Mr. Wouter Lincklaen Arriens		
15:55 – 16:10	NARBO Constitutional Body 2008-2009 Nomination and selection – by NARBO Secretariat			
16:10 – 16:20	Acceptance remarks – by incoming NARBO Chair, Vice-Chair, and Secretary General			
16:20 – 16:45	Wrap up session, plenary discussion with comments and commitments by NARBO members – led by ADB Headquarters	Chaired by Mr. Wouter Lincklaen Arriens		
16:45 – 16:55	Closing remarks 1 - by NARBO Vice Chairperson	Mr. Ivan da Silva (Srilanka)		
16:55 – 17:05	Closing remarks 2 – by Directorate General of Water Resources, Ministry of Public Works, Indonesia	Represented by Mr. M. Amron		
17:05 – 17.10	Photo session			
19:00 – 21:30	Farewell Dinner		Ball Room III	
Saturday 23 Feb	Check out and Departure			

Appendix 5

Electronic Newsletter

The NARBO Newsletter

(Network of Asian River Basin Organizations)

<http://www.narbo.jp/>

Activities (Thematic Workshop)

The NARBO has its First Set of Certified Peer Reviewers

Inocencio Arlene *

NARBO has its first batch of certified peer reviewers under its benchmarking initiative following the orientation and training held in Jatiluhur, Indonesia on October 31 to November 3, 2006. Fifteen senior officials from eight river basin organizations (RBOs) have been certified.

The NARBO performance benchmarking service was launched in Bali, Indonesia in September 2005 with the demonstration of the web-based application. This was followed by a presentation to the general NARBO membership at its second General Meeting in Jatiluhur in February 2006. Eleven RBOs volunteered to pilot the performance benchmarking service.

As a background, NARBO has identified performance benchmarking system with peer review process as one of its priority activities. In 2004, the Asian Development Bank (ADB) and the International Water Management Institute (IWMI), in collaboration with NARBO member organizations, spearheaded the development of the NARBO performance benchmarking service for river basin

organizations (RBOs) with peer review process, through a series of benchmarking activities. The performance benchmarking service for RBOs is a management support tool that enables the organization to: (i) track its progress; (ii) compare performance with similar organizations; and (iii) improve the efficiency and effectiveness of service delivery and achieve the highest level of performance.

The peer review process is viewed as a mechanism for improving the performance of organizations and for strengthening the cooperation among members. It consists of member RBOs visiting each other to discuss and review performance. The process involves self-evaluation where an RBO first assesses its performance using the NARBO benchmarking framework which covers the organization's mission, stakeholder concerns, internal business processes, learning and growth, and financial aspects. The peer review process is expected to: (1) provide an opportunity for dialogue and exchange of experiences, good practices and informa-



Group Discussion

tion among similar organizations, (ii) build capacity, and (iii) create synergy within the sector. It is also expected to build convergence, commitment, cooperation, confidence, and credibility through a transparent process, and replace a culture of assessments by external specialists with a process of learning together in partnership with respect and trust.

Given these expectations from peer review process and effectively the certified RBO peer reviewers, only the participants who met the following criteria and were highly recommended by their RBO heads were invited and accepted:

- hold a senior management position, i.e., make or influence decisions, possess a high degree of

*) Economist, International Water Management Institute, Southeast Asia Office, Penang, Malaysia

Topics of this issue

Activities (Thematic Workshop)

- The NARBO has its First Set of Certified Peer Reviewers
- The 4th IWRM Training Course in Sri Lanka
- The 3rd & 4th Thematic Workshop on Water Allocation and Water Rights

Information from members

- NARBO Forest after one year

From the secretariat

- APHW Conference in Thailand
- Member's Annual Report 2006

technical and administrative skills, knowledgeable of the activities and operations of the RBO including client needs, and able to contribute and foster knowledge-sharing during deliberations of the peer review team, and able to develop critical evaluations and strategies as necessary.

- have extensive experience in river basin work, i.e., with several years

of river basin planning and management experience, substantial knowledge of the water resources challenges and needs of the river basin, and able to apply technical skills to advise and support, and to develop critical analysis and strategies.

Twenty three (23) senior officials from eleven (11) river basin organizations in Indonesia, Thailand,

Vietnam, Philippines, Sri Lanka, South Korea, including one NARBO secretariat representative participated in the activity. Three staff from the Asian Development Bank (ADB) joined while one staff assisted the three staff from the International Water Management Institute (IWMI), who conducted the Orientation and training. Of the total participants, fifteen were certified:

Certified NARBO Peer Reviewers

November 3, 2006; Jatiluhur, Indonesia

Title	Name	Country	Designation	Organization
Ir	Subijanto, Tjoek Walujo	Indonesia	Director for Operations	Jasa Tirta I Public Corporation
Dr	Gurusinga, Djendam	Indonesia	President Director	Jasa Tirta II Public Corporation
Mr	Idrus, Herman	Indonesia	Head of R&D Bureau/Water Resources Specialist	Jasa Tirta II Public Corporation
Dr	Hutagalung, Waldemar	Indonesia	Director of Administration and Finance	Jasa Tirta II Public Corporation
Dr	Nurlaila	Indonesia	Head of Quality Management Bureau	Jasa Tirta II Public Corporation
Mr	Trihariono, Bambang	Indonesia	Senior Adviser, Quality Management Bureau	Jasa Tirta II Public Corporation
Mr	Quintos, Cesar	Philippines	Division Chief III	Laguna Lake Development Authority
Engr	de Silva, Ivan	Sri Lanka	Director General	Mahaweli Authority of Sri Lanka
Engr	Jayasinghe, J.A.S.A.	Sri Lanka	Executive Director, River Basin Planning & Management Division	Mahaweli Authority of Sri Lanka
Mr	Wellappili, Chulananda	Sri Lanka	Director, Planning & Monitoring Unit	Mahaweli Authority of Sri Lanka
Mr	Suaydee, Chamroon	Thailand	Chairman	Bang Pakong-Prachinburi River Basin Committee
Ms	Thongpook, Supaporn	Thailand	President	Ping River Basin Organization
Dr	Jompakdee, Wasan	Thailand	Chairman	The Coordinating Committee for the Protection of Ping River Basin and Environment
Dr	Nguyen Tat, DAC	Vietnam	Senior Project Manager	Dong Nai River Basin Organization, Southern Institute for Water Resources Planning
Mr	Thai Gia, Khanh	Vietnam	Water Resources Engineer, Chief of Technical Division	Red River Basin Organization

These Certified Peer Reviewers are expected to: (a) be available to conduct peer reviews, (b) visit other RBOs, (c) work with other peer reviewers, (d) review other RBO self-assessment reports, (e) interview the top management, staff and

stakeholders of RBOs being reviewed, (f) hold dialogues with other RBO Self-Assessment teams, (g) write reports and present findings and recommendations to other RBO top managements, and (h) submit final review reports

to the boards or top managements of RBOs reviewed.

CONGRATULATIONS TO THE FIRST NARBO PEER REVIEWERS!!!

The 4th IWRM Training Course in Sri Lanka

Masahiro Sugiura *

The Forth NARBO training course was held in Sri Lanka from November 6 to November 10 for about 5 days with great cooperation with the Mahaweli Autholity of Sri Lanka. The training course was participated by 18 persons from six Asian countries- Bangladesh(2), Indonesia(2), Pakistan(1), Philippines(1), Vietnam(5), Sri Lanka(4) and Two JWA and one from ADB. The theme of this training was "Water fo all - Lessons Learnt and Meeting Future Challenges" which was very timely theme and relevent to all the South East Asia and South Asian countries.

1st day was devoted for giving some clear understanding about Past-Present & Future of Hydraulic Civiliza-tion of Sri Lanka and Current Water

Management in Sri Lanka-Overview, by presentations made by two eminent resource persons from Sri Lanka. Then country paper presenta-tion was made by each organization participated. 2nd and 3rd day were devoted for Fields Program which was planned to visit Victoria-Randenigala-Rantembe complex and meet Farm-ers Organization to have very close interaction to understand the grass--



Visiting Farmers Organization (3rd day)

roots level situation of Water Manage-ment. 4th and 5th day programs were very attractive for them to actively participate for the sessions and finally concluding ceremony.

This training was definitely a good opportunity for the participants to learn from Sri Lankan experiences with water-related sector issues. (The course fee was US\$200 per person.)



Group Presentation (5th day)

*) NARBO Secretariat (Japan Water Agency)

The 3rd & 4th Thematic Workshop on Water Allocation and Water Rights

Michitaro Nakai *

1. Introduction

The 3rd and 4th thematic workshops on water allocation and water rights were held respectively in Thailand, November-December 2006 and in Japan, January 2007. This thematic workshop on water allocation and water rights is the 1st series of the thematic workshop, which consists of 4 times in total. Thus, with the completion of the 4th workshop the 1st series was finished. This article reviews these 2 workshops, and after that, concludes the 1st series of thematic workshop briefly.

2. The 3rd Thematic Workshop on Water Allocation and Water Rights

The 3rd thematic workshop on water

allocation and water rights was held on November 27-December 1, 2006 in Bangkok, Thailand (at Century Park Hotel). The 3rd host organiza-tion was the Department of Water Resources (DWR), the Ministry of Natural Resources and Environment (MONRE). 35 participants from 7 countries (Thailand, Vietnam, Philip-pines, Indonesia, Sri Lanka, Lao PDR, and Japan) discussed each session theme actively, and we could reach the refined outcomes about the improvement for water allocation issues. In addition, we could obtain some important infor-mation on current status of river basin management in Thailand through the site visit.

The main objectives of the 3rd work-shop were (i) To review of the 1st and 2nd thematic workshops, and (ii) To make proposals for approach to improving water allocation issues. In line with the objectives, we held 5 sessions (on 27 & 29 November and 1 December), in which participants gave presentations and we made discussions for clarifying how to approach to improvement of water allocation issues in each participant's country. Thanks to the participants' efforts, we were finally able to reach refined outcomes, which will be the basis for the final action programs of the workshop.

Also, 2 presentations were given



Group Discussion



Site-visit (Khlong Tha Dan Dam)



Meeting with Bang Pakong RBC Staff

from Japan side (on 27 November). One is "Outline of groundwater management", presented by Mr. Masayuki Sato, Deputy Director, Water Resources Policy Division, Water Resources Department, Ministry of Land, Infrastructure and Transport; and the other is "Outline of the River Law", presented by Michitaro Nakai, ADB Institute. Many participants seemed to have keen interest especially in groundwater management affair, thus participants made a lot of questions and discussions about that.

In addition, we made site-visit in the Bang Pakong river basin (on 30 November), going to the 2 venues (i) The Water Resources Regional Office 6 in Prachin Buri Province, and (ii) The Khlong Tha Dan Dam Project in Nayok Province. Especially in the site visit for the Water Resources Regional Office, we could obtain information on the River Basin Commission and the Water Evaluation and Planning System (WEPS), which are quite useful.

3. The 4th Thematic Workshop on Water Allocation and Water Rights

The 4th thematic workshop on water allocation and water rights was held on 23-26 January, 2007 in Saitama, Japan (at Japan Water Agency (JWA) Headquarters). The 4th host organization was JWA. 13 participants from 7 countries (Thailand,

Vietnam, Philippines, Indonesia, Sri Lanka, Lao PDR, and Japan) participated in the workshop.

In this 4th workshop, we mainly focused on holding presentations on drafted action programs for approach to improvement of water allocation issues by each participant. Thus, participants gave presentations on their action programs based on the outcomes of the previous workshop intensively, and made discussions actively (on 24 & 26 January). Participants' drafted action programs, which are to be the workshop outcome, could become more polished ones through the discussions among participants.

Also, special lecture was given by Professor Tsuneaki Yoshida, Graduate School of Graduate Science, University of Tokyo (on 23 January). The theme of the lecture is "Japan's Experience in Water Resources Development - A Case Study on the Aichi Canal Project financed by the World Bank".

In addition, we visited 3 water-related projects within the Tone and Ara river basins, the Tone Canal Project in Saitama Prefecture (on 24 January), the Kasumigaura Lake Development Project in Ibaraki Prefecture, and the Inba-Marsh Development Project in Chiba

Prefecture (On 25 January). In the field trip in Chiba Prefecture, we held the discussion session with members of the Water User Association (Inba-Marsh Land Improvement District).

4. Conclusion

Thanks to the participants' efforts, we could complete the 1st series of thematic workshop successfully. Also, we could reach excellent outcomes through the workshop, which will be posted onto the NARBO website in the near future, <http://www.narbo.jp/>. Also, we could obtain important information on water allocation and water rights issues in participants' countries through discussions and field trips, which must be useful for the future NARBO activities.

Finally, we'd like to express our thanks for all the participants and all the staffs concerned of the host organizations of the thematic workshops (The Red River Basin Organization (Vietnam), the National Water Resources Board, the Laguna Lake Development Authority (Philippines), and the Department of Water Resources (Thailand)). Also, secretariat hopes that we will have close relationships with each other in the future.

Thank you very much.



Welcome Party (Chiba Canal Comprehensive Project Office)



Making a Presentation on the Action Program



Site-visit (Tone Canal)

Information from members

NARBO Forest after one year

Waldemar Hutagalung, Herman Idrus, Mardjuki Surachmat, Reni Mayasari, and Erni Murniati *



Welcome back to NARBO FOREST!

It has been quite a while after the 2nd General Meeting of NARBO that took place in Jatiluhur, Indonesia. As part of the meeting, NARBO FOREST was launched involving the young and rising stars that emerge to safeguard the environment specifically water resources.

Within an area of 2 ha, various tropical and local fruit trees were planted by different individuals representing a symbolic figure of all component of the stakeholders. The functions of forest for conservation, protection and production were created in this newly born forest.

The NARBO FOREST gives opportunity to share not only to the government institutions, particularly Jasa Tirta II Public Corporation but also to the community surrounding the area the information and good practices on how to conserve water resources and get benefits from the development.

This is due to the fact that water conservation cannot be done by only single component. As the triangle of IWRM, it collaborates mutual interaction between economics, social, and environment.

Keep your Spirit High!

Mr. Sasahara stated in his article that NARBO FOREST exhibits the Spirit of RBO, Spirit of NARBO, and Spirit of IWRM (see: Newsletter – Eight Issue).

NARBO FOREST is pioneering the cooperation in order to increase

aware-ness and technical advice on the sustainable aspect of the watershed.

Meanwhile, high expectation of the project creates a great responsibility. Mr. Hutagalung emphasized that the most important factor now to make the project successful and become a model for future development are persistence and determination. Without close collaboration and active participation from the society and continuity of proper maintenance of the area it won't be successful. Mr. Herman Idrus and Mr. Mardjuki Surachmat as the front line of duties have responsibility to keep the spirit high.

Learn from Nature!

The fence had been built in the border of the 2 ha of the NARBO FOREST in order to protect the young trees from the animal mostly goats, cows, and buffalos.

In the area, a house had been built and is intended as a guarding post

and also is operated as the exhibition room where we can learn the history of the development and learn how to conserve water as part of the IWRM.

Up to now, there are more than 70 trees that are growing in the area. Some of them were planted during the 2nd General Meeting. The area is only 2 ha but it has possibility for further extension.

Several man forces are employed to protect and maintain the environment. Regular maintenance such as grass cutting is carried out to preserve the environment.

After 1 year running, NARBO FOREST is not only located in the scenic view that attracts people to visit and enjoy the panorama, but also in the future we can take pleasure in eating the fresh from the trees of exotic fruits!

We wait for your return and see you again in NARBO FOREST!



A house had been built as an exhibition room and also a guarding post.



Mr. Waldemar Hutagalung, Mr. Herman Idrus, and Mr. Mardjuki Surachmat during field observation of the NARBO FOREST.



Regular maintenance of the area.

From the secretariat

APHW Conference in Thailand Minoru Arai *

1. Introduction

The 3rd APHW Conference was held in Bangkok, Thailand during October 15th – 19th, 2006. Mr. Minoru Arai of NARBO Secretariat participated in the conference and made a presentation on the outline of NARBO and the activities. He appealed the importance to strengthen the relationship between NARBO and APHW for the purpose of promoting IWRM in monsoon Asia.

2. About APHW

The Asia Pacific Association of Hydrology and Water Resources (APHW) is non-governmental organization founded in September 2002. The Association is an Inter Regional Knowledge Partner of NARBO, which provides a forum and acts as a catalyst for a discussion on education research, and policy development in the fields of hydrology and water resources management. APHW activities consist of promotion of hydrological studies in Asia Pacific region, research on water utilization and management methodologies, organization of conferences and workshop, establishing education programs, data and information sharing, and publication of journals.

3. Outline of the Conference

The conference was held in cooperation with the National Research Council of Thailand (NRCT) under the theme entitled “Wise Water Resources Management Towards Sustainable Growth and Poverty Reduction”. In parallel with the conference, an International Symposium on “Managing Water Supply for Growing Demand” was organized at the same venue by Thai National Committee for IHP-UNESCO, Thailand National Commission for UNESCO and Ministry of Natural Resources and Environment, Thailand.

4. Appeal from NARBO

The conference began with the opening speech by Dr. Musiaka Secretary General of APHW. Following the opening session, the special sessions divided into every theme were held.

Mr. Minoru Arai of NARBO Secretariat attended the special session 6 “Asian Initiatives and Predictions of Hydrology and Water Resources – Predictions in Ungauged Basins” and made an oral presentation entitled “NARBO Practice of IWRM with River Basin Organization (Activities and Standpoint of NARBO)”. He explained the “Thematic Workshop” as one of the representative NARBO activities and made an appeal for the importance to strengthen the relationship between NARBO and APHW for the purpose of promoting IWRM in monsoon Asia.



Opening Session



Presentation by Mr. Arai

*) NARBO Secretariat (Japan Water Agency)

Member's Annual Report 2006

"The deadline of the NARBO members' annual report 2006 is March 31. As of March 1, only two members submitted the annual report.

The secretariat prepared the simple form of the annual report on NARBO website, so please download the format from the website and submit the annual report no later than March 31."



The NARBO Newsletter

(Network of Asian River Basin Organizations)

<http://www.narbo.jp>

Activities(Thematic Workshop)

The NARBO Thematic Workshop on Water Rights

Michitaro Nakai *

1. Introduction

The NARBO Thematic Workshop on Water Rights was held in Manila, the Philippines (ADB Headquarters), on 29-31 May 2007, attended by 31 participants from 7 countries (The Philippines, Vietnam, Lao PDR, Thailand, Indonesia, Sri Lanka, and Japan). The workshop was hosted by ADB, in collaboration with the National Water Resources Board (NWRB), Laguna Lake Development Authority (LLDA), and Japan Water Agency (JWA).

The objective of the workshop is to follow-up the Thematic Workshop on Water Allocation and Water Rights, held during December 2005 - January 2007 and to finalize the technical paper on water rights system.

Participants gave presentation on the status on water rights system in their own countries, and had intensive discussion on the system. In addition, field visit was held to go to 3 venues: Tagaytay City Water District, Office of National Irrigation Administration, and Ayala Property Management Corporation. We could share information on water rights in the Philippines through the field trip.

2. Highlight of the Discussion

The following items were mainly discussed in the workshop. Outcome of the discussions is attached herewith.

- How to accommodate water resources 1) for poor communities, 2) for new users, and 3) for environment
- How to improve consultations for win-win solutions
- How to manage transition from implicit allocation scheme to explicit one (From "implicit" to "explicit")
- How to coordinate surface water and groundwater allocation

How to accommodate water resources:

• For poor communities:

Participants reported the issue that poor community areas, in many cases, do not have adequate water supply facilities. Accordingly, there find some controversial cases that rich people can use reasonable priced water though poor people have to buy expensive bottled water. Therefore, participants concluded that it is necessary to develop adequate potable water supply facilities for poor communities with minimum cost.

• For new users:

Participants concluded the followings; (i) more beneficial

water uses should be prioritized, (ii) it is necessary to develop new water resources not only with reservoir construction but also inter-basin transfer or other measures, and (iii) with developing new water resources, financial contribution from large water users should be considered.

• For environment:

Participants concluded that it is necessary to ensure certain of % of available water for environmental use and raise awareness on the necessity of environmental flow.

How to improve consultations for win-win solutions:

Participants concluded that the followings are needed to realize improvement of consultations for win-win solutions; (i) to identify stakeholders especially small farmers' groups, (ii) to engage more multiple users through improving communication, transparency, and better education, (iii) to mobilize local organizations at village/community level, (iv) to promote and increase the opportunities for consultation between city water users and irrigation water users, (v) to promote the activity of coordination bodies such as RBOs, and (vi) to establish the plan for

*) ADB Institute

Topics of this issue

Activities (Thematic Workshop)

(Benchmarking)

From the secretariat

- The NARBO Thematic Workshop on Water Rights
- The 1st Thematic Workshop on Sustainable Management for Water Resources Infrastructures
- The Last Performance Benchmarking Pilot and Peer Review of the RRBO
- Report on NARBO Secretariat Meeting - NARBO Secretariat
- Member's Annual Report 2006

water uses at basin level through stakeholders' consultation as well as recognizing water demand and supply in the basin.

How to manage transition from “implicit” to “explicit”:

Participants understood that explicit scheme for water allocation is vital for appropriate water allocation from the viewpoint of good governance. In addition, participants concluded that (i) it is necessary to raise awareness on the explicit water allocation scheme and disseminate the advantage of it, and (ii) enforcement power is needed for explicit water allocation scheme.

How to coordinate surface water and groundwater:

participants concluded that the followings are needed to coordinate surface water and groundwater appropriately; (i) to collect necessary data and information

on availability of groundwater and surface water, (ii) to develop plans for uses of groundwater and surface water, and (iii) to establish strong coordination between groundwater management organization and surface water management organization.

3. Field Trip

Field trip was held on 30th May (Day2), and participants visited to 3 venues as follows.

•Tagaytay City Water District:

The purpose of this field trip was to see the case of conflict on water permit application in an urban context, between water supply utility and private firms

•National Irrigation Administration (NIA):

The purpose of this field trip was to see the good example of water allocation among multiple irrigation water users conducted by NIA, which is a government entity under

the Department of Agriculture, the Philippines.

• Ayala Property Management corporation:

The purpose of this field trip was to see the good example of well-functioned water rights system relating to the Laguna Lake, which is the biggest lake in the Philippines.

4. Conclusion

Thanks to the contributions from the participants, we could made good discussion on water rights system, which is one of the important water issues in Asia. The drafted technical paper was intensively discussed with valuable comments from participants received, including on the roles of RBOs on water rights. Now, ADB HQ is deliberating the technical paper the outcome of the workshop. Further information will be posted onto the NARBO Website



Session in the workshop

The 1st Thematic Workshop on Sustainable Management for Water Resources Infrastructures

Masahiro Sugiura *

1. Introduction

The 1st thematic workshop on sustainable management for water resources infrastructures was held on 11th-14th June 2007 in Hanoi, Vietnam (at the meeting room of the Ministry of Agriculture and Rural Development (MARD)). The thematic workshop was highlighted as one of the important activities in the action plan (2006-2007) decided at the Second NARBO General Meeting. Japan Water Agency (JWA) will lead “the workshop on sustainable management of Water

Resources Infrastructures” based on the action plan, that called as “the workshop on facility management”. The sustainable management becomes a very important perspective to practice water resources management and it has been worked on by various methods in each country. In this respect, NARBO respects the characteristic of water resources management being implemented by each country. Therefore, we would like to take this opportunity to discuss a concrete measure for ahow NARBO members' country

has endeavored to improve the management of water resources infrastructure by sharing experience and major issues faced with each country. This workshop was composed of field visits and discussion.

This workshop is proposed to be held four times during 2007-2008. Theme of each workshop is planned as follows:

“The 1st Workshop “Characteristic and Issue on sustainable management of water resources

*) NARBO Secretariat (Japan Water Agency)

in the near future. Infrastructures of each country” in Vietnam by hosts of General Office for RBOs, Department of Water Resources, Ministry of Agriculture and Rural Development (MARD).”, “The 2nd Workshop “Identify of problem and consultation toward resolution” (To be held in a participant’s country in October 2007 as proposal).”, “The 3rd Workshop “Setting goal and approach to problem solution” (To be held in a participant’s country in December 2007 as proposal).”, “The 4th Workshop “Presentation of the next step by each participant” (To be held in a participant’s country, and date will be decided later).

2. The 1st thematic workshop on sustainable management for water resources infrastructures

The host organization of The 1st thematic workshop on sustainable management for water resources infrastructures was the Department of Water Resources, MARD. Eighteen participants from 6 countries (Bangladesh, Indonesia, Sri Lanka, Thailand, Vietnam and Japan) discussed each session theme actively, and we could reach the consensus about the improvement for water resources infrastructures management issues. The main objective of the 1st workshop was “Characteristic and Issue on sustainable

management of water resources Infrastructures of each country”.

In addition, we visited the Nui Cook dam site and Bac Hung Hai system and could obtain information on the water resources infrastructures in Vietnam, which are quite useful.

3. Conclusion

Thanks to the participants’ efforts, we could complete the 1st thematic workshop successfully. Finally, we would like to express our thanks for all participants and staff of MARD in Vietnam, also secretariat is hoping that we will have close relationships with each other in the future.



Information Exchange and Discussion on Water Resources Infrastructures Mngement (First day)



Site Visit (Second day)



Site Visit (Third day)

Activities(Benchmarking)

The Last Performance Benchmarking Pilot and Peer Review of the RRBO

Inocencio Arlene *

What was it About

The NARBO performance benchmarking pilot nears its completion with the peer review visit of the Red-Thai Binh River Basin Planning Management Board (RRBO) on 12 – 15 June 2007. The RRBO pilot benchmarking is the last of four pilots, after which NARBO will decide on how to proceed with its Benchmarking Initiative. *1 A team of NARBO Certified Peer Reviewers (PR) from Jasa Tirta I Public Corporation (PJT I), Mahaweli Authority of Sri Lanka (MASL) and Ping River Basin Organization with support from Japan Water Agency (JWA)/Asian Development Bank Institute (ADB I)/NARBO Secretariat and the

International Water Management Institute (IWMI) conducted the peer review.

The PR Team was chaired by Supaporn Thongpook, President of Ping River Basin Organization. The peer review was fruitful and had the full support and cooperation of the host organization.

The June 2007 peer review visit was preceded by a self-assessment process which began in February this year. At the start of the process, the RRBO designated a Self-Assessment (SA) Team composed of nine (9) key officers and chaired by the Deputy Head, Mr. Le Van Hoc. A one-day orientation for the SA Team was

conducted by IWMI in early February. It laid down the guidelines in carrying out performance assessment using the NARBO Benchmarking Tool, which is anchored on five (5) critical river basin organization (RBO) performance areas and 14 performance indicators. The SA Team facilitated the self-assessment process within the RRBO using the NARBO tool. Testing the applicability of the Benchmarking Tool is one of the objectives of the pilot.

With the completion of the SA Self-Assessment Report in May 2007, the peer review process was commenced and a team of

*) Economist, International Water Management Institute, Southeast Asia Office, Penang, Malaysia

peer reviewers was composed in coordination with the RRBO. The implementation of this process is in accordance with the other aim of the pilot which is to test the usefulness and appropriateness of a peer review approach in RBO performance benchmarking. A few weeks before the visit, the selected Peer Reviewers were given the SA Report and the key support documents for them to read in advance to better prepare them for the task.

As in past peer reviews, the RRBO Peer Review (PR) visit included a series of activities. Just before the start of the 4-day peer review, the PR members briefly met, discussed as a team and appointed its chair. A quick refresher on RBO Peer Review objectives, process, guidelines and expectations followed. The first day of the peer review was filled with presentations by the SA Team, review of key RRBO documents to support the self-assessment ratings and interviews with the RRBO top management and staff. The second and third days were spent meeting the staff and viewing some facilities of two sub-RBOs in the Red River basin (the Day and Cau sub-RBOs) as part of the RRBO stakeholder consultations. On the last day, the PR Team prepared the draft PR Report, had a dialogue with the SA Team and presented the key findings to the RRBO top management. The activity was officially closed by the NARBO Vice-Chair, Dr. Michio Ota, with some inspiring messages and a confirmation of NARBO's commitment to supporting its members and the Benchmarking Initiative.



Some Peer Review Highlights

During the Peer Review, the SA Team showed confidence and trust in the PR Team by freely sharing and discussing its performance ratings. The SA Team also showed objectivity in defending its high ratings and explaining the low ratings. In two indicators, while appreciative of the higher marks the PR team thought the RRBO deserved, the SA Team stood its ground and expounded on why the lower ratings were appropriate. This shows that the SA Team recognizes well that the RRBO as an organization has yet so much to improve in terms of realizing and implementing integrated water resource management (IWRM) objectives. *2

The PR team was really focused in its task, had well-thought questions and comments and came up with some interesting recommendations. The PR Team included Tjoek Subijanto of PJT I and J.A.S.A. Jayasinghe of MASL. All the three PR members have been involved in two other pilots, so they have the benefit of accumulated experience and understanding in performance benchmarking and peer reviewing.

At the end of the activity, a project management expert working on the Second Red River Basin Sector project has challenged the RRBO to put to use the results of this performance benchmarking and come up with a road map to help the organization become better. *3 As he aptly put, the whole performance benchmarking is a tool for seeing where the organization is headed and knowing how to get there.



Some Lessons from the RRBO Benchmarking

- The successful implementation of the RRBO benchmarking pilot can be attributed to several key factors:

- the strong commitment and full support of the top executive and management of RRBO backed by commitment of some resources. Without the buy-in and support of the top management, the performance benchmarking initiative cannot go far.

- the appointment of highly capable and focused SA Team which facilitated the self-assessment process and completed a clearly written SA Report;

- the openness to learn and experience new things, the desire to improve performance and willingness share and contribute own knowledge and experience, as reiterated in the opening address of the RRBO Head; and

- a committed team of technically knowledgeable and experienced RBO peer reviewers which lent credibility to the whole benchmarking process. NARBO has currently a very limited number of Certified Peer Reviewers who can carry out peer reviews.

This points to the need to do another round of training and certification of a new batch of peer reviewers. *4

- Among the early benefits of the benchmarking initiatives is the increased awareness of RRBO staff on the potential usefulness of performance benchmarking with a balanced scorecard framework in identifying the organization's strengths and weaknesses, and supposedly investment gaps and areas to focus resources on to achieve target improvements in performance and implement IWRM. *5 The balanced scorecard framework presents a more systematic way of understanding the organization's position in terms of 5 critical performance areas which all lead to the achievement of IWRM objectives. This knowledge should make possible setting of clear targets and correspondingly

Session in the RRBO pilot benchmarking

allocating resources. However, with the uncertainty on the immediate future of the RRBO, the SA Team thought it prudent not to set targets and identify the corresponding initiatives.

- Despite initial reservations that the tool may not be appropriate for the RRBO given its relatively narrow mandate and limited activities compared to the other three pilots, both the SA and PR Teams realized that the tool makes sense even for a “young” and “small” RBO in transition, with some refinements. *6

- A better understanding of the NARBO Benchmarking Tool and the balanced scorecard approach will require a lot of practice. In turn,

a better understanding of the Tool will allow the RBOs a better handle and reaping of greater benefits in terms of improved performance and achieved targets.

What Next

For the RRBO, the PR Team will soon be submitting its final report to its top management for consideration and appropriate action. Two actions should be encouraged. First, the RRBO top management which holds concurrent and more regular positions in IWARP can apply the results and lessons to IWARP as an organization. Second, both the SA and PR Reports can be shared with the new river basin management body if it will be constituted

soon enough while the findings and recommendations are still relevant.

For NARBO, however, the lessons from the RRBO performance benchmarking will be useful in several ways: (1) confirming that the balanced scorecard framework is appropriate and satisfactory for RBO performance assessment; (2) establishing the benefits of a peer review approach; (3) revising and improving the indicators; and (4) developing reporting formats. There is now a plan to hold a NARBO workshop by end of the year to learn the lessons from the pilots, get updates on the responses and actions from the reviewed RBOs and draw the next steps for the Benchmarking Initiative.

*1)The 3 other pilots were done by Jasa Tirta II Public Corporation (PJT II) in late July to October 2006, Mahaweli Authority of Sri Lanka in mid September to early December 2006, and Laguna Lake Development Authority in late January to April 2007.

*2) This view does not reflect the impending reorganization and restructuring in river basin management with the transfer of this responsibility from the Ministry of Agriculture and Rural Development (MARD) to the Ministry of Natural Resources and Environment (MoNRE) this year and the finalization and implementation of the Government Decree on River basin Management most likely within the year.

*3)Even with the transfer of river basin management, the Institute of Water Resources Planning (IWARP) which is hosting and manning the RRBO can benefit from the experience.

*4)This need not be as intensive and long if members of the SA teams from all the pilots will be considered for the next batch.

*5)The same can be said of the staff of the RBO members which were reviewed and or served as peer reviewers.

*6)For instance, the PR Team had difficulty validating the Technical Development rating because it does not see the RRBO as maintaining infrastructure and operational assets while the SA Team could not give a rating for Cost Recovery because it feels that it is not a relevant indicator.



Participants in the RRBO pilot benchmarking

From the secretariat

Report on NARBO Secretariat Meeting – NARBO Secretariat

1. Introduction

NARBO Secretariat Meeting was held on 1 June 2007 at ADB Headquarters to report the record of the NARBO activities after the NARBO 2nd General Meeting (February 2006) and to discuss the future orientation of NARBO. Attendants of the Meeting are as follows.

- Basuki Hadimuljono (NARBO Chair) – DG, Agency of Research & Development, Ministry of Public Works
- Ivan de Silva (NARBO Vice Chair) – DG, Mahaweli Authority of Sri Lanka
- Michio Ota (NARBO Vice Secretariat General) – Director, International Affair Division, Japan Water Agency (JWA)
- Wouter Lincklaen Arriens (NARBO Vice Secretariat General) – Lead Water Resources Specialist, ADB
- Ian Makin – Water Resources Engineer, ADB
- Sudharma Elakanda – Project Director, Mahaweli Authority of Sri Lanka
- Michitaro Nakai – NARBO Associate, ADB Institute
- Shinobu Ifuji – Administrator, International Affair Division, JWA
- Dennis Von Custodio – Consultant, ADB

2. Highlights of the Meeting

The followings are the highlights of the meeting.

2.1 Website

JWA will continue the operation and maintenance of the website; and will continue requesting contributions (case studies, insights, news items, etc.) from members.

JWA will coordinate with ADB water web team for possible improvements, including on gathering statistics and determining which pages or topics in the website are popular.

2.2 Newsletter

JWA will continue circulating the newsletter on a quarterly basis; and will continue to remind members to submit news items.

JWA will consider strategies to further improve the substance of the newsletter, covering among others: (i) regular messages from Chair and Vice-Chair; (ii) new projects; (iii) weblinks; and (iv) recycling or repackaging important news articles.

2.3. Media Relations, NARBO Promotion and Dissemination

NARBO Secretariat will (i) consider having a booth for NARBO at the upcoming 5th World Water Forum in Turkey; and (ii) consider participating in the upcoming world conference on climate change in Bali, Indonesia.

JWA will support the Vice Chair, Mr. Ivan de Silva's participation at the 3rd Southeast Asia Water Forum to be held 22-26 October in Malaysia to represent NARBO.

2.4 Workshops

JWA will evaluate the current NARBO workshop methodology in terms of (i) output (product) and outcome, (ii) level of participation and targeting limited candidates to attend several times, (iii) inputs from experts, and (iv) number of times to be conducted, and share with NARBO Secretariat a short note on the evaluation.

From the secretariat

Report on NARBO Secretariat Meeting – NARBO Secretariat

2.5 RBO centers of excellence

JWA will include the proposed center of excellence on water resources management in Indonesia as an activity under this program (NARBO Action Plan).

2.6 Twinning programs

JWA will include as one of the resulting activities under the twinning program the pilot and demonstration activity on water quality for the Citarum river basin. JWA plans to exchange some staff between JWA and Indonesian NARBO this year pursuant to the MOA for Twinning Program between JPN and INO.

2.7 Financial resources

ADB review the proposed financing working group and thereafter circulate a note to NARBO Secretariat.

2.8 Membership Drive

NARBO Secretariat will target new RBO members from (i) INO; (ii) PHI; (iii) South Asia; (iv) SIN; and (v) PRC. NARBO Chair will help in getting new members from INO RBOs. MASL will review and advise if there is need to secure separate individual memberships from RBOs under the MASL organization.

2.9 3rd General Meeting

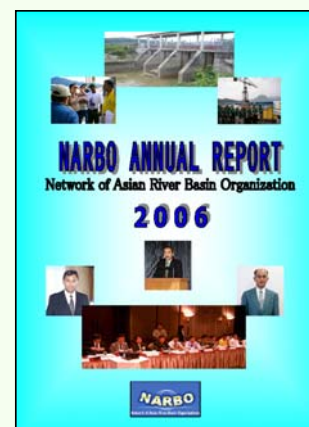
NARBO Chair will advise on the venue in Indonesia for the next general meeting (NARBO 3rd General Meeting will not be held in December 2006 as the OPEN EVENT for the Asia Pacific Water Summit).

3. Conclusion

As mentioned above, NARBO secretariat will make efforts to promote and expand the network; organizing more attractive events, attracting other RBOs, or seeking more stable financial sources etc. Thus, member organizations' more proactive participation in NARBO is appreciated. In addition, we are eagerly seeking the information and experiences on water resources of member countries, so that contribution to the NARBO website and the NARBO Newsletter from member organizations is also appreciated.

Member's Annual Report 2006

"NARBO ANNUAL REPORT" that summarizes our activities in the year 2006, has just been issued and the report is available on NARBO website. Regarding compilation of the NARBO Member's Annual Report, we greatly appreciate your cooperation and help.





The NARBO Newsletter

(Network of Asian River Basin Organizations)

<http://www.narbo.jp/>



Activities (TWINNING PROGRAM)

THE NARBO TWINNING PROGRAM - 2007

Mulianingsih*

The Lucky of Me

Traveling is one of my favorite activities. I have visited some European and Asian countries before and for the next holiday destination I have called some travel agents at the beginning of July 2007 to get information about Japan. I was very excited when, a few days later, I got an assignment to leave for Japan for the twinning program between Japan Water Agency (JWA) and Perum Jasa Tirta (PJT, Indonesian NARBO). Certainly, I felt very lucky. It would be a great "holiday" for me: free of charge 30 days stay in Japan!!!

I arrived at Narita airport on 7th august 2007 at around 9 o'clock a.m. Along with my two colleagues and one digital camera, I started my adventure. A big billboard of Yokoso Japan (means Welcome to Japan) was the first picture I took in the airport.

On the same day in the International Affairs Division of JWA Head Quarter Office, we were explained about the time-schedule of our

activities and presented to the office's members. The warm acceptance they showed to us made me feel like at home.

The Activities

• Site visits

Out of seven river basins exist in Japan we were scheduled to visit four of them, namely Tone, Kiso, Yodo and Yoshino river basins. There are many objects to see in those areas, but due to limited time, JWA had arranged the following places to visit:

- Gunma Canal Redevelopment, Operation and Maintenance Office (Tone River System):

Visits to canal facilities, office facilities and Land Improvement District Office



Thick plantation at Naramata Reservoir Area

- Numata Dam Operation and Maintenance Office (Tone River System):

Visits to Yagisawa Dam, Naramata Dam and the Information Center of Tokyo Electric Power Company

- Research Center:

Visit to some hydraulic models and other research facilities

- Tokuyama Dam Construction Office (Kiso River System):

Visit to dam site: explanation on first filling of reservoir

- Nagaragawa Estuary Barrage Operation and Maintenance Office (Kiso River System):

Visit to the barrage site.

- Lake Biwa Operation and Maintenance Office (Yodo River System):

Lake Biwa by boat and visit to water quality monitoring station, Seta Weir, Lake Biwa Museum and



Information exchange between JWA and PJT

*) Hydrologist / Reservoir Operation Specialist, Jasa Tirta I Public Corporation

Topics of this issue

Activities (TWINNING PROGRAM) (THEMATIC WORKSHOP)

From the Secretariat

- THE NARBO TWINNING PROGRAM - 2007
- FIRST THEMATIC WORKSHOP IN ASIAN COUNTRIES ON WATER-RELATED DISASTER & ITS MANAGEMENT
- The 3rd Southeast Asia Water Forum
- NARBO Website Access Log

drainage facilities (sluice gates and pumping station)

- Kagawa Canal Redevelopment, Operation and Maintenance Office (Yoshino River System):

Visits to embankment site, canal intake site, canal rehabilitation, regulation ponds, environment protection facilities and Kagawa Canal Museum.

• Experience/ information sharing

The experience/ information sharing is conducted in the form of formal presentation (by both sides: JWA and PJT) as well as informal discussion that took place not only in a meeting room but also in the car or train that brought us from one place to another. The discussions moved from the most serious issues such as the modern IWRM in Japan, water rights, environment protection



Asakusa Temple

etc. to the simplest ones e.g. about the food we eat and other things happen in our daily life.

• Other activities

We never stop strolling except when the night came, even on Saturdays and Sundays. It was like there would be no tomorrow. The three of us had the same mission: we had to use time effectively to visit as many places as we could during our stay in Japan. We visited museums, shopping centers, public parks, temples or just walking along small streets with Japanese style houses. Souvenirs hunting were the most taking time's activity (we never been egoists: we always think about giving something to our family,

colleagues and friends)

What Impressed Me?

Followings are things that leave special impression on me after my 30 days roaming around Japan:

• Green forest and blue water

The beautiful scene of clean water and green trees could be seen not only on the upper areas but also at the lower part of the river basins. Naramata Dam, Yagisawa Dam, Tokuyama Dam and Nagaragawa Estuary Barrage are the examples. Those places show me how nature preservation is particularly considered in the water resources development in Japan.



The clear water of Tokuyama Dam

• Modern facilities

Most of the project sites/ offices that we visited are equipped with modern facilities (e.g. high technology monitoring and communication system/ data processor). Those facilities make it possible to do the operation and maintenance job more practically, simpler, with less effort and less staff needed.

• Good coordination between interrelated organization

Japan's (JWA's) river basin management system provides examples of the importance of good coordination between all of the related parties in the whole

country (central and local government, JWA, water users). In each river system in Japan there are some different facilities (dams, water intakes, and monitoring stations) which are managed by different organizations.

With smooth coordination between those organizations and with the same mission: put **goodness for everyone** on the highest priority, the river water could be managed/ controlled (in floods, droughts as well as in normal condition) easily and effectively.

• Public relation tools

PR goals are provision of information to build mutual understanding to attract positive cooperation to support overall company's activities.

Among the PR tools that are used in Japan/ JWA, there is one that I found interesting: the use of paper fan to convey information, suggestion etc to the public: low cost and usable (especially in hot weather).

• High working-spirit of the JWAs members (9.00 a.m. - 12.00 p.m. working hours !!!!!)

Last Words

Now I'm back to my country, to my house, to my job in PJT I. I'm happy, of course, that I meet again with my family, my colleagues and my friends, but there is one thing that I'd like to tell you all: I have one more happiness because in my age I still have the chance to see another world. Thanks to PJT I and JWA. Thanks to Anton and Nugroho for being a good company. Thanks to Anton and Nugroho for being a good company.

Activities (Thematic Workshop)

FIRST THEMATIC WORKSHOP IN ASIAN COUNTRIES ON WATER-RELATED DISASTER & ITS MANAGEMENT 25-29 November 2007

Alicia E. Bongco*

Natural disasters such as floods, droughts, landslides, volcanic eruptions, earthquakes, tsunami, typhoons, hurricanes, cyclones and other extreme weather phenomena have hit Asia in recent years. These disasters have inflicted catastrophic losses to human lives and to the economies of countries of NARBO member organizations.

The NARBO General Meeting in Indonesia last February 2006 has considered the conduct of thematic workshops as one of the important activities of NARBO. Based on the updated NARBO Action Plan of 2006-2007, NARBO carried-out the first of the series of three workshops on the theme **“Water-Related Disaster and Its Management in Asian Countries.”**

The 1st thematic workshop on the aforesaid topic was held from 26 to 29 November, 2007 in Yogyakarta, Indonesia and participated in by 8 countries (Indonesia, Lao PDR, Malaysia, Pakistan, Philippines, Sri Lanka, Thailand and Vietnam). The goal of the workshop is to develop capacity of key organizations for water-related disaster management by (i) providing basic concepts and principles; (ii) sharing country challenges and strategies; and (iii) formulating an action plan. The

River Basin of Yogyakarta, ADB, ADBI, and JWA hosted the event.

On the opening day, Dr. Neil Britton, Senior Disaster Risk Management Specialist of the ADB gave a special presentation titled “Sharing ADB’s Experience in Disaster Management” while Mr. Hiroyoshi Tanaka, Water Resource Specialist discussed the Man-made Disasters in Japan. The field visits to Mt. Merapi and the famous temples devastated by volcanic eruptions were organized by the Host RBO headed by Mr. Bambang Hargono. Presentations were made in the 3rd and 4th days of the workshop.

Every participant presented a country/river basin situation on water-related disasters that happened for the last 10 years. At the end of every presentation, there were active discussions and some clarifications. There were also exchanges of experiences on how disasters are managed in the respective countries of the participants. It was worth mentioning that the participants had active discussions even beyond or outside of the classroom, which was an indication of the eagerness of each one to learn from each others experiences. Added attraction to the participants were the presentation of

some actual footages of the disaster as they happened that were showed by the tri-media particularly, the television.

Current situation and issues related to environmental management, land use planning, inter-organization factors, community-based management including dam maintenance and capacity building concerns were the common concerns identified by the participants for this 1st workshop.

The workshop also included a guided field visit to the important places in Yogyakarta which was affected by major disasters. The participants were informed that the Indonesian Department of Culture and Tourism and the UNESCO and selected international experts in the field of conservation and structural engineering provide technical recommendation for the restoration works and established global partnership for the post-earthquake rehabilitation and cultural heritage. The places are as follows:

+ **Mt. Merapi - (Gunung Merapi)** - The participants visited the mountain and the Gendol Sabo Dam project which is now being implemented in order (a) to protect and secure the inhabitants from the



Mt. Merapi - (Gunung Merapi)-



Kasongan Handycraft Center in Bantul



Session in the workshop

threat of lahar/debris flow; (b) to repair and rehabilitate the irrigation facilities damaged by lahar/debris flow; and (c) to conduct investigation, planning, design and execution of volcanic debris control facilities.

+ *Sambisari Temple* - The host organizer showed to the participants this temple which was built sometime during the end of the 9th century. Additional information provided to the participants was that the farmers in 1966, discovered the temples hidden and buried by volcanic ash and dust, 6 meters below the surface of the surrounding land. The temple, now considered one of the UNESCO World Heritage is undergoing rehabilitation to restore its original state.

+ *Kedulan Temple* - This superstructure was so amazing. The Hindu temple was discovered buried beneath deposits of mud that had flowed down the southern slopes of Mount Merapi due to volcanic activity. The work of art and crafting of the restoration of the images of goddesses on the out-facing walls of the perimeter that surrounds the central shrine is astonishing and extraordinary.

+ *Prambanam Temple* - This is the most famous and magnificent of

Central Java's temples or more precisely, complex of temples. The participants witnessed the on-going rehabilitation of the temple / cultural heritage which was severely damaged.

+ *Borobudur Temple* - a majestic temple and considered one of the



Prambanan Temple

seven wonders of the world and serves as an awe-inspiring testament to the hard work, determination, and faith of its eighth and ninth century creators. It is a representation of the Buddhist concept of the universe and life of Buddha. The monument overlooks a green valley encircled by a ring of mountains.

+ *Kasongan Handycraft Centre in Bantul* - The participants also had discussion with some of the farmers and small-scale businessmen producing ceramics at the Bantul District. They shared the experiences encountered when Mt. Merapi erupted and how it impacted

their livelihood, destroyed their houses and damaged the irrigation canals while the participants actively interacted with them and also exchanged some views.

The workshop clearly manifested the great cooperation of the participants in sharing their experiences on water-related disasters in each country. The first workshop identified the current situation and obstacles faced in dealing with the disaster. It is envisioned that in the 2nd workshop the sound practices and risk assessment approaches are presented and a case study of what a good (flood) risk program for the community will be developed for the 3rd workshop.

Finally, in behalf of the participants, we would like to express our appreciation to the hospitality of Serayu-Opa River Basin Office of Yogyakarta lead by Mr. Bambang Hargono and his staff members, Mr. Budi S Wignyosukarto, JWA, NARBO and ADB for support to all the participants and other concerned organizations for their support, hard work and successful conduct of the workshop.



Participants in the thematic workshop

From the secretariat

The 3rd Southeast Asia Water Forum Akira Nishimura*

1. Introduction

Date: October 22-26, 2007

Venue: Putra World Trade Center (Kuala Lumpur, Malaysia)

Website: <http://3rdseawf.water.gov.my/>

The 3rd Southeast Asia Water Forum held in Kuala Lumpur, Malaysia was successfully completed. The Organizing Committee of the Forum mainly consisted of Department of Irrigation and Drainage (DID) that is a NARBO member and Malaysia Water Partnership (MyWP).



Session chaired by Mr. Ivan de Silva



NARBO secretariat staff (Mr. Ochi) presentation

2. Contribution by NARBO

NARBO secretariat invited Mr. Ivan de Silva, who is the Vice-Chairperson of NARBO as well as Director General of Mahaweli Authority of Sri Lanka, to the Forum. He chaired a session held on October 24 whose title is "Water Resources and River Basin Management Issues", and had a presentation whose subject is "Present State and Future Prospects of NARBO". Some NARBO secretariat staff also had presentations in the session.

*) NARBO secretariat (Japan Water Agency)

NARBO Website -Access log since June 2006 - December 2007-

Summary

Regarding the NARBO website, JWA was suggested at the previous NARBO secretariat meeting on June 2007, gathering statistics and determining which pages or topics on the website are popular.

The following shows some trends of visitors on NARBO website that was analyzed by a statistical processing based on daily logs (raw data).

The Figure 1 shows a change of access count to the top page of NARBO website. Recently over 1,400 visitors usually access to our website but monthly fluctuation is large.

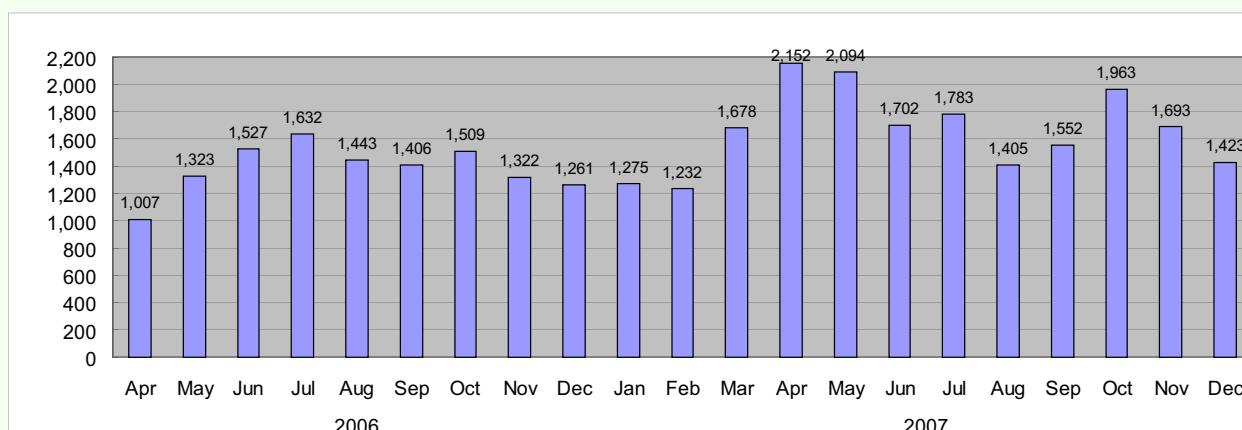


Figure 1. NARBO Website Top page Access

Procedure of Data Processing

- 1) There is a daily log on record which includes a domain name of visitor and the information of individual web page.
- 2) All of the existing web pages are classified into tentative 13 categories such as the Figure 2.
- 3) The daily log is converted into monthly statistic data in accordance with above 13 categories.
- 4) Especially, the category "Focus" is divided into 6 topics to investigate the trend in more detail.

Results

The Figure 3 shows a trend of popularity among the 13 categories. The most accessed category is the "Focus", and the "Event" follows it next.

The Figure 4 shows a trend of popularity especially on the category "Focus". The category of "Picture" and "Twinning Program" are very popular stably among the category "Focus".

Please kindly give us your recommendation or opinion as regards this matter or article.



Figure 2. NARBO Web Page Category

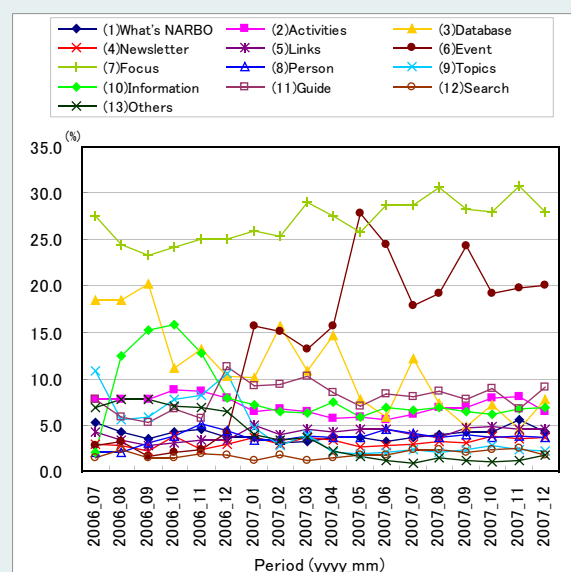


Figure 3. Website view trend categorized into 13

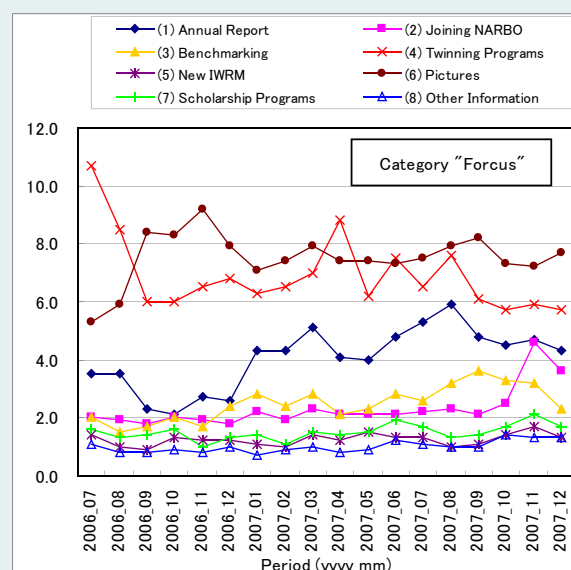


Figure 4. Website view trend on the category "Focus"

Appendix 6

Program of the Thematic Workshop on Water Rights

Workshop on Water Rights
Auditorium A, ADB HQ, Manila, Philippines
29-31 May 2007

Program

Time	Tuesday, 29 May (Day1)		
	Session Title	Agenda / Activity	Presenter / Speaker
08:30-09:00	Registration		
09:00-10:00	Opening Session	Welcome Remarks	Ramon B. Alikapala Executive Director, NWRB Dolora N. Nepomuceno Asst. General Manager, LLDA
		Opening Remarks	Urooj S. Malik Director, Agriculture, Environment and Natural Resources Division, Southeast Asia Department, ADB
		Introduction	Michitaro Nakai NARBO Associate, ADBI
		Outline of the Workshop Process	Jeremy D. Bird Consultant, ADB
10:00-10:15	Break		
10:15-11:00	Draft Technical Paper (DTP) <i>Water Rights: Issues and Challenges for River Basin Organizations in Asia</i>	Presentation of the DTP	Jeremy D. Bird Consultant, ADB
11:00-11:45		Roundtable Discussion on the DTP	Participants
11:45-12:00	Break		
12:00-13:00	Lunch Seminar: 'Addressing Vulnerability to Climate Change', RMSI's Asst. VP Dr. Satya Priya (optional)		
13:00-14:30	Water Rights in Indonesia, Lao PDR and Philippines	Guided Discussion (30 minutes per country)	Participants
14:30-14:45	Break		
14:45-16:45	Water Rights in Japan, Sri Lanka, Thailand and Viet Nam	Guided Discussion (30 minutes per country)	Participants
16:45-17:00	Announcement	Arrangements for the field visit	Elenito M. Bagalihog Division Chief, NWRB
Time	Wednesday, 30 May (Day 2)		
	Session Title	Agenda / Activity	Presenter / Speaker
08:00-12:00	Field Visits (1) and (2)	NWRB-granted water rights (i) Case of Tagaytay City Water District vs. two private firms (ii) Irrigation Water Rights	Elenito M. Bagalihog Division Chief, NWRB Gil Yorro Asst. Prov. Irrigation Officer, NIA

	Lunch		
13:00-17:00	Field Visits (3)	LLDA-granted water rights	Ambet M. Pacia Operations Manager, Ayala Properties Management Corporation Marivic Zantua Facility Manager, Ayala Properties Management Corporation
Time	Thursday, 31 May (Day 3)		
	Session Title	Agenda / Activity	Presenter / Speaker
08:30-09:00	Registration		
09:00-10:30	Finalizing the DTP	Group Discussions on country cases and experiences, and recommendations to implement water rights (2 breakout groups)	Participants
10:30-10:45	Break		
10:45-11:00	Finalizing the DTP	Group 1 Presentation	Group 1 Chair
11:00-12:00		Roundtable Discussion on Group 1 Outputs	Jeremy Bird Consultant, ADB
12:00-13:00	Lunch		
13:00-13:15	Finalizing the DTP	Group 2 Presentation	Group 2 Chair
13:15-14:15		Roundtable Discussion on Group 2 Outputs	Jeremy Bird Consultant, ADB
14:15-14:45	Synthesis and Next Steps		Ian W. Makin Water Resources Engineer, Agriculture, Environment and Natural Resources Division, Southeast Asia Department, ADB
14:45-15:00	Break		
15:00-16:00	Closing Session	Closing Remarks and Awarding of Certificates	Michio Oota Director, Japan Water Agency Wouter T. Lincklaen Arriens RSDD Lead Water Resources Specialist, ADB
16:30-18:00	Cocktail Reception		Hosted by: Arjun Thapan Southeast Asia Department Director General, ADB and Chair, Water Committee

Appendix 7

Program of the Thematic Workshop on Sustainable Management for Water Resources Infrastructure

Annex-1

NARBO 1st Thematic Workshop on Sustainable Management for Water Resources Infrastructures **Agenda and schedule ver.070507**

Date	08:00-10:00	10:00-10:15	10:15-12:00	12:00-13:00	13:00-14:30	14:30-14:45	14:45-16:00	16:00-16:10	16:10-16:40
Sunday 10th, June Resource Persons			Participants arrival						Organizing Meeting OC and NARBO-secretariat
Monday 11th, June Resource Persons	pick up at hotel	Registration and Opening Session: 8:00-Registration, 8:30-Opening Remarks(GORBO/MARD), 8:40-Introduction of Thematic Workshop(JWA), 9:00- "Introduction of Vietnam's facility management" and "Explanation of schedule of 1st Thematic Workshop"(OC)	Tea/Coffee	Lunch	Report session:Each participant give the presentation on proposed theme and Discussion	Tea/Coffee	Report session: Each participant give the presentation on proposed theme and Discussion		Explanation about venue of field visit (OC)
Tuesday 12th, June Resource Persons	pick up at hotel	Field Visit and Discussion - Nui Coc Reservoir and Irrigation system			Guides and resource persons from Field Visit Office and OC				
Wednesday 13th, June Resource Persons	pick up at hotel	Field Visi and Discussion - Bac Hung Hai Irrigation System			Guides and resource persons from Field Visit Office and OC				

Annex-1

**NARBO 1st Thematic Workshop on Sustainable Management for Water Resources Infrastructures
Agenda and schedule ver.070507**

Date		08:00-10:00	10:00-10:15	10:15-12:00	12:00-13:00	13:00-14:30	14:30-14:45	14:45-16:00	16:00-16:10	16:10-16:40	
Thursday 14th, June	pick up at hotel	Discussion Session :Good practices and Issues on "Legal and/or institutional framework" and "organization" of participant's country	Tea/Coffee	Discussion Session : Good practices and Issues on "Technical aspect for infrastructure management" of participant's country	Lunch	Discussion Session : Good practices and Issues on "Social/Custom obstacles and restriction concerning implementation of Water resources management" and "others" of participant's country	Tea/Coffee	Discussion Session : Subject and assignment of 2nd Thematic workshop	Tea/Coffee	18:30 - 20:00 Closing Ceremony: Closing Remarks (OC), Farewell dinner (OC)	Participants Departures
Resource Persons		Participants	Participants		Participants		Participants		OC		
Friday 15th, June		Participants Departure									

Annex-1

NARBO 2nd Thematic Workshop on Sustainable Management for Water Resources Infrastructures **Agenda and schedule ver.071003**

Date	8:00-10:15	10:30-12:00	12:00-13:00	13:00-14:30	14:30-14:45	14:45-16:15	16:00-16:10	16:15-16:30
Tuesday 23th, October Resource Persons	Participants arrival							
							Organizing Meeting	
							OC and NARBO-secretariat	
Wednesda y 24th, October	Registration and Opening Session: 8:00-Registration, 8:30-Opening Remarks(BWDB), 8:40-Introduction of 2nd Thematic Workshop(JWA), 9:00-"Introduction of BWDB and IWM" and "Explanation of schedule of 1st Thematic Workshop"(OC)	Report session (1): Priority of Issue and Problem Solution	Lunch	Report session (2): Priority of Issue and Problem Solution	Tea/Coffee	Report session (3): Priority of Issue and Problem Solution		Explanation : about venue of field visit
Resource Persons	BWDB, IWM, JWA, OC	Bangladesh(BWDB), Bangladesh(IWM)		Indonesia, Sri Lanka		Thailand, Vietnam		
Facilitator	OC	Thailand		Bangladesh(BWDB)		Indonesia		
Record	OC	OC		OC		OC		
Thursday 25th, October Resource Persons	Meghna Dhanagoda Irrigation Project (MDIP), Chandpur							
	Md. Shahidur Rahman, Superintending Engineer, Chandpur O & M Circle, BWDB							
Friday 26th, October Resource Persons	Muhuri Irrigation Project (MIP), Feni							
	Md. Ahsanul Alam, Superintending Engineer, Feni O & M Circle, BWDB							

Annex-1

**NARBO 2nd Thematic Workshop on Sustainable Management for Water Resources Infrastructures
Agenda and schedule ver.071003**

Date	8:00-10:15	10:15-10:30	10:30-12:00	12:00-13:00	13:00-14:30	14:30-14:45	14:45-16:15	16:00-16:10	16:15-16:30	
Saturday 27th, October	Discussion Session : Problem Solution on "Legal and/or institutional framework" and "organization" of participant's country	Tea/Coffee	Discussion Session : Problem Solution on "Technical aspect for infrastructure management" of participant's country	Lunch	Discussion Session : Problem Solution on "Social/Custom obstacles and restriction concerning implementation of Water resources management" and "others" of participant's country	Tea/Coffee	Discussion Session : Subject and assignment of 2nd Thematic workshop	Tea/Coffee	Closing Ceremony: Closing Remarks (OC)	Participants Departures
Resources Persons										
Facilitator	Sri Lanka		Bangladesh(IWM)		Vietnam		JWA			
Record	OC		OC		OC		OC		OC	
Sunday 28th, October	Participants Departure									

NARBO Workshop
"4th Thematic Workshop on Sustainable Management for Water Resources Infrastructures"
4th - 7th February 2008, Bangkok-Thailand

Date	I	II	III	IV
Monday, 4th February 2008 (Day 1)	8:30 Registration of Participants	Report Session (1) , Action Plan 10:00-11:00 BWDB (Bangladesh) 11:00-12:00 IWM (Bangladesh) Facilitated by JWA BWDB, IWM	Report Session (2), Action Plan 13:00- 14:00 PJT-I (Indonesia) 14:00-15:00 MASL(Sri Lanka) Facilitated by BWDB/IWM PJT-I, MASL	Report Session (3) , Action Plan 15:20- 16:20 DWR (Thailand) 16:20-17:20 MARD&GORBO (Vietnam) Facilitated by PJT-I DWR, MARD&GORBO
	9:00 Opening Remarks (DWR)			
	9:10 Introduction of Participants			
	9:20 Opening Speech (JWA)			
Tuesday, 5th February 2008 (Day 2)	9:30 Introduction of 4th Thematic workshop (JWA)	Discussion Session 1 10:00-11:30 Problem solution on "legal and/or institutional frame work" and "Organization" of participants country. Facilitated by MASL	Discussion Session 2 13:00-14:30 Problem solution on "Technical aspects for infrastructure management" of participant's country Facilitated by DWR	Discussion Session 3 14:30-16:00 Problem solution on "Social/Custum obstacles and restriction concerning implementation of Water resources management" and "Others" of Participant's Country Facilitated by MARD&GORBO 16:00-16:30 Arrangement of Outcome by participants
	9:40 Schedule of 4th Thematic workshop			
	DWR, JWA, OC			
	Prestation Session Briefing of Field visit(OC) 8:30-8:50 Briefing of Field Visit by OC 8:50-9:40 Presenation "(Tentative) Sustainable Management for Water Resources Infrastructures of Japan" MLIT (Japan) Facilitated by JWA			
Resource persons	MLIT	All participants	All participants	All participants
		OC of Thailand	OC of Thailand	OC of Thailand
Record				
Wednesday, 6th February 2008 (Day 3)	Site Visit (in Kachanaburi)			
Resource persons	OC of Thailand			
Thursday, 7th February 2008 (Day 4)	Site Visit (in Kachanaburi)	Movement	Go to Bangkok/ Departure of participant	
Friday, 8th February 2008	Departure of Participants			

Appendix 8

Program of the 1st Thematic Workshop on Water-Related Disaster and Its Management in Asian Countries

NARBO Thematic Workshop - Ware-Related Disaster and Its Management in Asian Countries

Date	Sessions	10:20-10:40	10:40-12:00	12:00-13:00	13:00-14:20	14:20-14:40	14:40-16:00	16:00-16:20	16:20-17:40
Day 0 25 Nov. 2007	I		II		III		IV		V
Resource Persons	Participants arrival Indonesia NARBO Secretariat & NARBO Secretariat Welcome Reception at Dalem Gusti Joyo Hadikusumo (Dinner and see Javanese Dances)								
Day 1 26 November 2007	Opening Session Dr. Basuki Hadimuljono (NARBO Chairman)	Break	Special presentation and discussion (1) - Key note address and share ADB's experience in disaster management Dr. Neil Britton (Regional and Sustainable Development Department, ADB)	Lunch	Special presentation and discussion (2) - Man made disaster management Mr. Hiroyoshi TANAKA (Lead Water Resources Specialist, Canal Dept. JWA) Moderator : Fida Hussain, Rapporteur : Alicia E. Bongco	Break	Presentation & Discussion (1) Presentation and discussion to share experience among member countries on disaster management - Vietnam Moderator : Elakanda Sudharma Rapporteur : Xayviliya Ounakone	Break	Presentation and discussion (2) Presentation and discussion to share experience among member countries on disaster management - Sri Lanka Moderator : Ahmad Darus Rapporteur : Erwando Rahmadi
Day 2 27 Nov. 2007	Resource Persons	Field Visit - to Merapi Volcano & Bantul district the centrum of Yogyakarta earthquake Guides and resource persons from Field Visit Organization Team, Indonesia NARBO Secretariat and local institutions							
Day 3 28 November 2007	Presentation and discussion (3) Presentation and discussion to share experience among member countries on disaster management - Pakistan Moderator : Alicia E. Bongco Rapporteur : Mardjuki	Break	Presentation and discussion (4) Presentation and discussion to share experience among member countries on disaster management - Malaysia Moderator : Le Quang Tuan Rapporteur : Elakanda Sudharma	Lunch	Presentation and discussion (5) Presentation and discussion to share experience among member countries on disaster management - Thailand Moderator : Xayviliya Ounakone Rapporteur : Agung Nugroho	Break	Presentation and discussion (6) Presentation and discussion to share experience among member countries on disaster management - Philippines Moderator : Herman Idrus Rapporteur : Le Quang Tuan		
Resource Persons									

NARBO Thematic Workshop - Ware-Related Disaster and Its Management in Asian Countries

Date	Sessions	10:20-10:40	10:40-12:00	12:00-13:00	13:00-14:20	14:20-14:40	14:40-16:00	16:00-16:20	16:20-17:40
Day 4 29 November 2007	I	Break	II	Lunch	III	Break	IV		V
Resource Persons	Presentation and discussion (7) Presentation and discussion to share experience among member countries on disaster management - Lao PDR Moderator : Srisunee Wuthiwongyothin Rapporteur : Gunawan Suintoro	Presentation and discussion (8) Presentation and discussion to share experience among member countries on disaster management - Indonesia Moderator : Pham Toan Rapporteur : Ahmad Darus	Group Work To identify the facing issues and discussion on the direction for future improvement Indonesia NARBO Secretariat (& NARBO Secretariat) Rapporteur : Novizar Adiyansyah		Concluding Session & Closing Ceremony -NARBO Secretariat Presentation Review of modules and participants findings NARBO Secretariat & Indonesia NARBO Secretariat				
Day 5 30 Nov. 2007	Resource Persons	Participants Departure							

