



Introduction of Asian River Restoration Network

<http://www.a-rr.net/>

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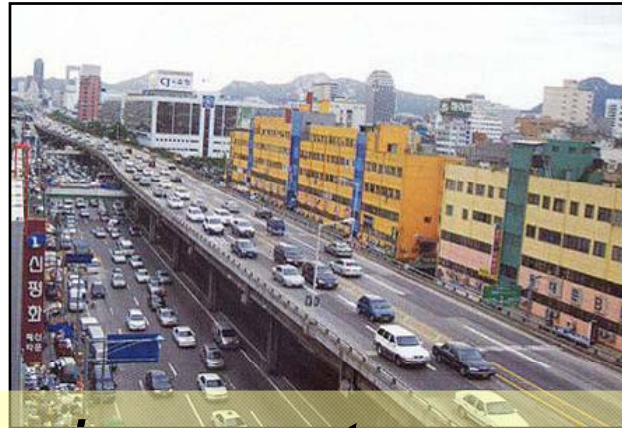
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1. Background

Problems of Rivers and Waterfront Environment in Asia



Japan



Korea



China

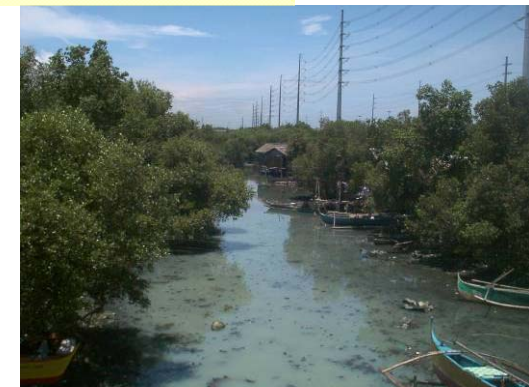
River environment was weeded out by process of leading life of people



Cambodia
JRRN
Japan River Restoration Network



Malaysia



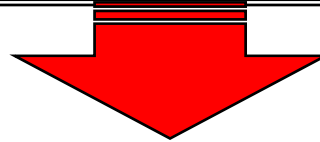
Philippines

1. Background

Problems of Rivers and Waterfront Environment in Asia

By the rapid population increase and development according to economic growth...

- ☐ Water quality deterioration
- ☐ Reclamation of river
- ☐ Deterioration of habitat
- ☐ Disappearance of hydrophile property etc.



Activities and research on river and watershed restoration are being carried out throughout the world.

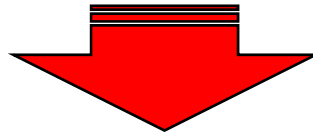
These activities are broad in scope, and include....

- Improvement of water quality and quantity
- Improvement of urban landscaping, riverfront amenities
- Restoration of the natural environment, ecosystem
- Urban and human relationship restoration etc.

1. Background

Background surrounds River Restoration in Asia

- River restoration is a new technology compared with flood control and water utilization.
- Applicable technologies are required based on accumulated experiences and knowledge.
- Asia Monsoon region has specific characteristics.
 - Extensive variation of seasonal rainfall or discharge
 - Growth of rice cultivation on river plains
 - Various organisms in paddy fields
 - Rapid concentration of the population into urban areas



Discussion between countries/regions in similar geological and meteorological condition will provide more improved technology for rich river environment restoration.

1. Background

Measures to promote River Restoration in Asia

Summary of Discussion in the Session on 4th World Water Forum (2006)

- River restoration is of vital importance to socio-economic sustainable development in parallel with flood and water use management.
- Basin is a basic unit for river environment management.
- Establishing suitable methodological technology for river restoration that suit for Asian monsoon region is necessary.
- In Asia monsoon region, human-influence to a cultural landscape is harmonized with the ecosystem traditionally.
- It is important to develop a database of projects and knowledge of international experts in river restoration, and this activity should be supported by engineers, scientists, ecologists, managers and public.
- It is urgent to establish a river restoration guideline suitable for the Asian monsoon region for countries with similar social and natural conditions.



Asian River Restoration Network (ARRN)

1. Background

Establishment of ARRN (9 November, 2006)



Dr. H. S. Woo (Korea), Dr. W. K. Liao (China), Dr. Takemura (Japan)



3rd International Forum on Waterfront and Watershed Restoration (Tokyo)

ARRN Establishment Ceremony and “International Forum on Waterfront and Watershed Restoration” was held in Tokyo, JAPAN. (Nov. 2006)

2.Objective

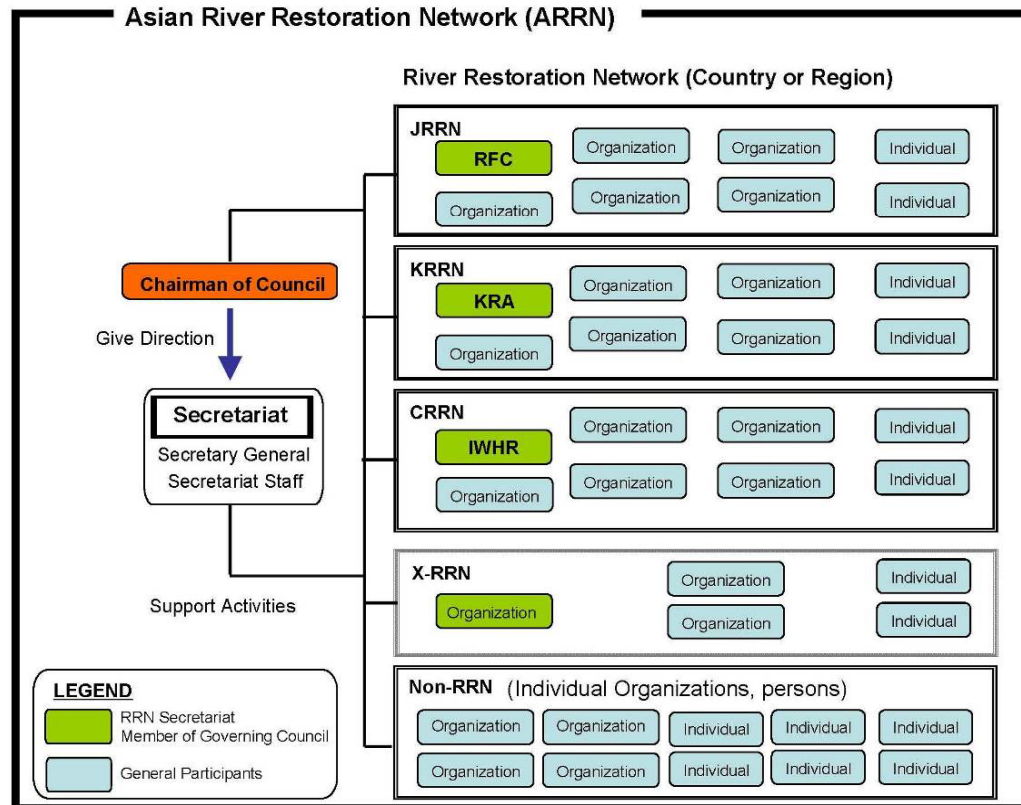
ARRN is an ***international non-political network*** for exchanging knowledge and technological information on the restoration of rivers and watersheds in Asia. One of the objectives is to provide various opportunities and venues for river restoration related organizations and individuals to share and exchange knowledge and experiences related to the restoration of rivers and watersheds through the network, aiming to enrich the participants' knowledge and scientific technology through mutual and multilateral cooperation.

(1) ARRAN develops a network for exchanging practices, knowledge technical information and experiences on the restoration of rivers and watersheds in Asia for engineers, scientists, ecologists, managers and public through ARRAN website and events.

(2) ARRAN enriches the participants' knowledge and scientific technology through establishing a reference guideline on river and watershed restoration suitable for the Asian monsoon region for countries with similar social and natural conditions.

3.Organization

Organization Structure



KRRN: Korea River Restoration Network

<http://www.krrn.net/>

[Secretariat] Korea River Association (KRA)

<http://www.riverlove.or.kr/>

CRRN: China River Restoration Network

<http://www.cnrrc.cn/>

[Secretariat] Institute of Water Resources and Hydropower Research (IWHR)

<http://www.iwhr.com/english.asp>



JRRN: Japan River Restoration Network

<http://www.a-rr.net/jp/>

[Secretariat] Foundation for Riverfront Improvement and Restoration (RFC)

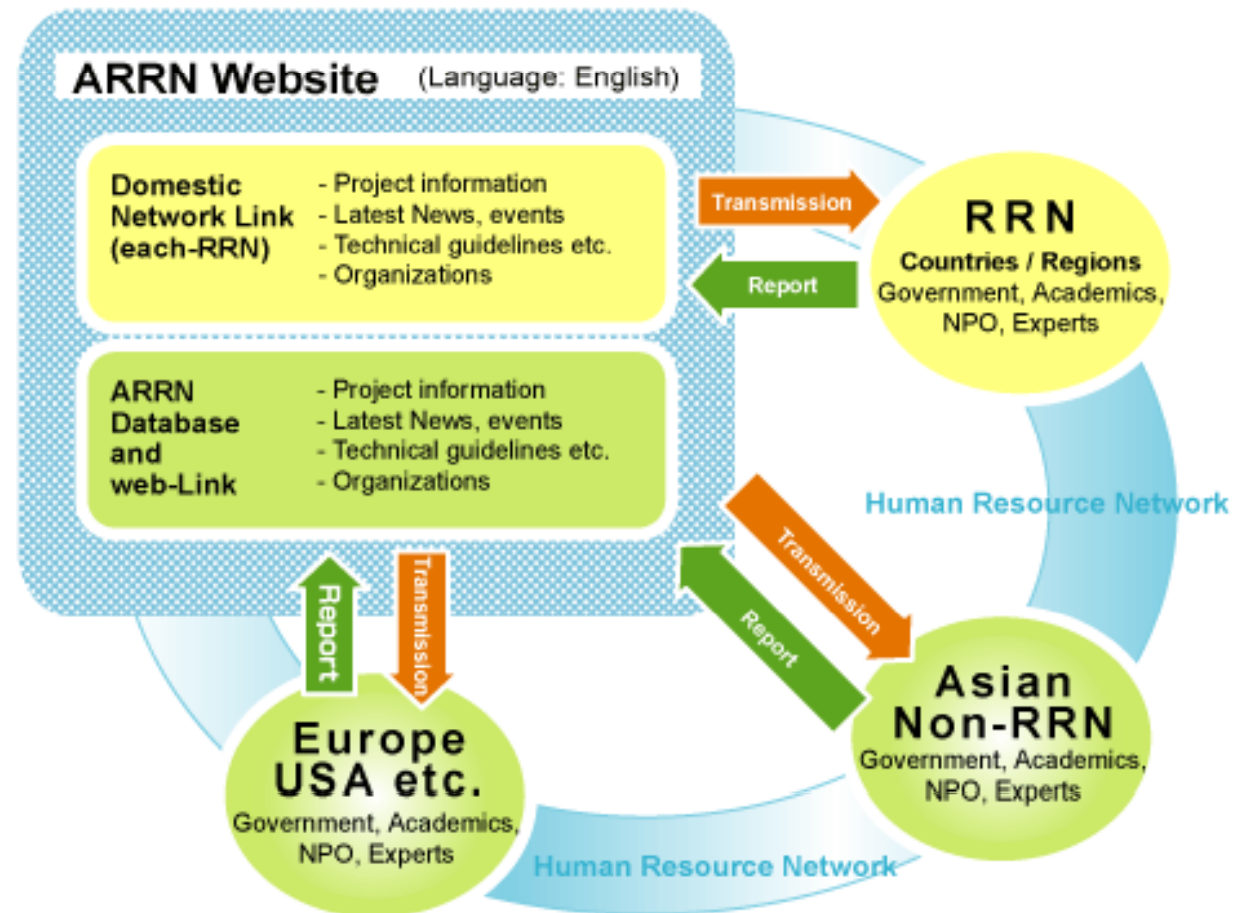
<http://www.rfc.or.jp/english/>



ARRN is organized with cooperation of national networks "River Restoration Network (RRN)" in each participating countries/regions, Non-RRN members and secretariat.

4. Major Activities

Outline of ARRNet Activities



- 1) Website
- 2) Newsletter and News-mail
- 3) International Forum and Regional Workshop
- 4) Preparing Guideline for River Restoration

4. Major Activities

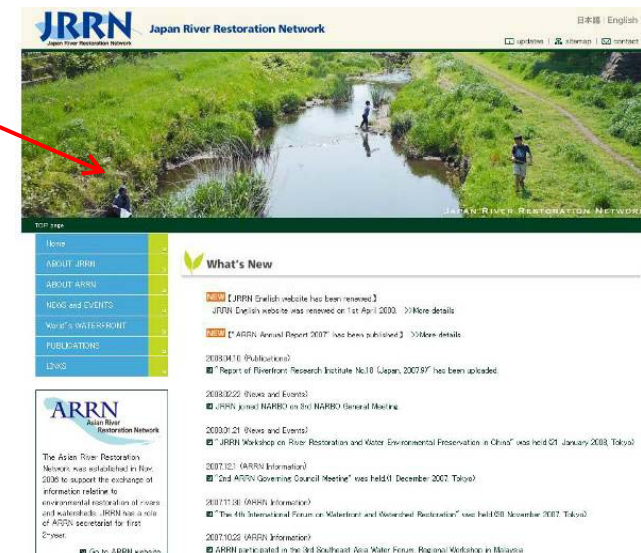
1) ARR Website and RRR website



ARRN website
(<http://www.a-rr.net/>)



CRRN website
(<http://www.cnrrc.cn/>)



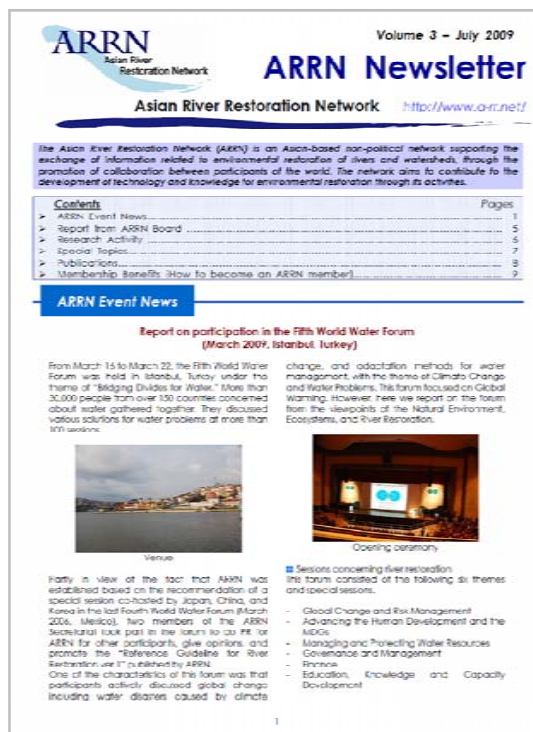
JRRN website
(<http://www.a-rr.net/jp/en/>)

KRRN website
(under construction)

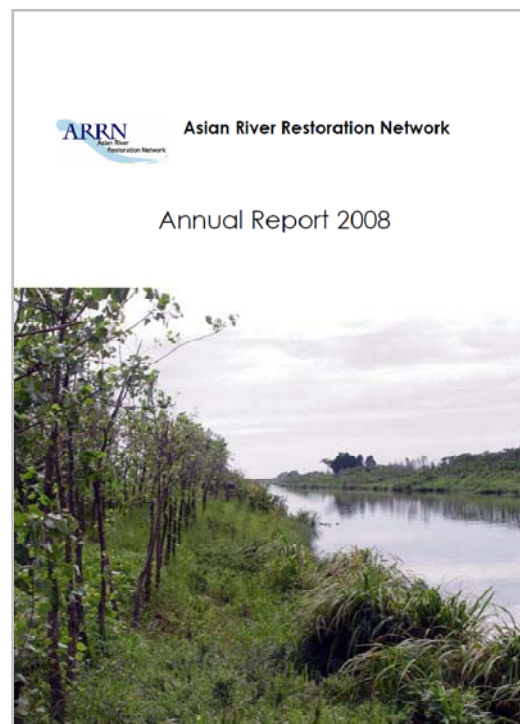
4. Major Activities

2) Newsletter / Newsmail etc.

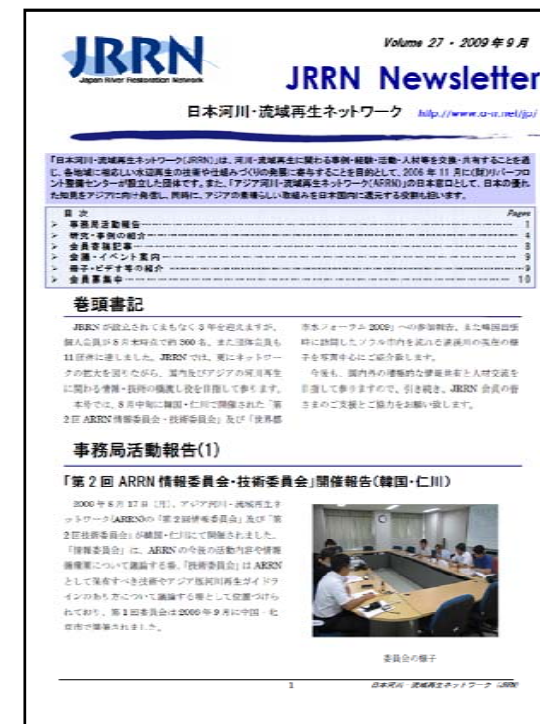
ARRN aims to share information through the newsletter and news mail with members.



ARR Nwstlr



ARR Nwstlr Annual Report



JRR Nwstlr

4. Major Activities

3) International Forum and Regional Workshop



The 3rd International Forum on Waterfront and Watershed Restoration (Nov.2006, Tokyo)



The 5th International Forum on Waterfront and Watershed Restoration (Nov.2008, Beijing)



JRRN Workshop on Environmental flow (May.2009, Tokyo)

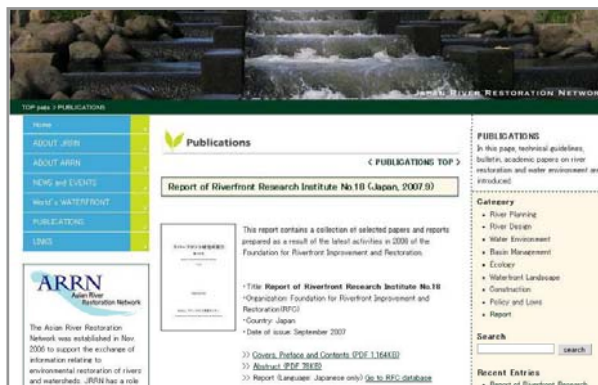


ARRN / IAHR Joint Seminar on Ecohydraulics and Environmental Hydraulics (Sep.2008, Tokyo)

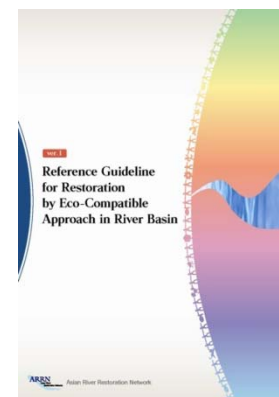
4. Major Activities

4) Preparing Guideline for River Restoration

- About 70 existing guidelines concerning river restoration has been collected as a preparatory step for establishing our own guideline, and ARRN continues to collect previous guidelines.
- ARRN is currently preparing a system that allows access to these existing guidelines on the website.
- 1st ARRN technical committee, consists representative of each RRN, was held in Sep. 2008 in Beijing to discuss preparing for a guideline of river restoration.
- ARRN published “Reference Guideline for Restoration by Eco-Compatible Approach in River Basin ver.1” in March 2009 and distributed it in the 5th WWF. ARRN continues to update the guideline for the 6th WWF.



Guideline Database



ARRN Guideline ver.1 (March 2009)

4. Major Activities

5) Technical Training



5. Membership Benefits

Joining the ARRN is Free!

To become member of ARRN, please contact to secre@a-rr.net by email.

Membership Benefits

- Easy obtaining of domestic and foreign information on river restoration through website, email, and direct contact to ARRN secretariat or other ARRN members as following;
 - Latest news, topics, projects, experiences, lessons, case studies
 - International and domestic events such as seminar and workshops
 - Standard books, technical guidelines, video images, etc.
- Holding opportunity to introduce member's organization and their activities to other ARRN members
- A coordinated business with various foreign countries or organizations
- Holding management support such as international seminar, workshops and establishment of regional river restoration network by ARRN secretariat

Member Registration URL: <http://www.a-rr.net/membership/registration.html>

6. Future Activities

ARRN and the each-RRN aim to provide required knowledge and techniques of river restoration as well as the opportunities to exchange relevant information for all concerned people, by which to contribute to the creation and conservation of waterfront environment.

(1) Establish the platform for information sharing in order to achieve more efficient information exchange among the ARRN members. (**Improvement of the ARRN website**)

(2) Compile the advanced cases of river restoration in Asia for the increased information volume and technical strength in order to contribute to the further improvement of the ARRN members' technical level. (**Compilation of River Restoration projects and toolbox**)

(3) Develop a reference guideline for river restoration in Asia, while continuously collecting the available existing guidelines relevant to river restoration. (**Development of a guideline**)

(4) Provide opportunities such as international forum, workshop and seminar, in which members can interact directly with each other and exchange information. (**Active organization of events**)



ARRN

Asian River
Restoration Network

Thank you for your kind attention.

<http://www.a-rr.net/>



Asian River Restoration Network secretariat

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E-mail: secre@a-rr.net Website: <http://www.a-rr.net/>



Japan River Restoration Network (JRRN) has a role of ARRN Secretariat currently.
JRRN Secretariat is operated by *Foundation for Riverfront Improvement and Restoration* and *CTI Engineering Co., Ltd.* as joint study on development of international information network of river environment.
<http://www.a-rr.net/jp/en/>