

Future cooperation for better water of life

**ASEAN Academic Networking in Water&Disaster Management
and Climate Change among ASEAN countries**

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Kwansue Jung

ksjung@cnu.ac.kr

Chungnam National University



OUTLINE

- I** Korea Water Resources Association (KWRA)
- II** International Water Resources Research Institute (IWRRI)
- III** International Commission on Large Dams (ICOLD-APG)
- IV** Challenge and future cooperation





I Korea Water Resources Association (KWRA)

Korea Water Resources Association

KWRA is open to all. Anyone interested in knowing more about Korea's water resources, in need of technical information, or wanting to participate in academic activities is welcome to join. KWRA will endeavor to become a steadfast and exemplary association that is alive and buzzing.



KOREA WATER
RESOURCES ASSOCIATION



Korea Water Resources Association (KWRA)

is a non-profit organization with more than 2,000 members from practicing hydro engineers



KWRA was founded in 1967 to contribute to the academic developments and public welfares regarding the earth waters.



Interested areas of KWRA include

- the **securement** of abundant water resources to mitigate water scarcity
- the implementation of **comprehensive measures** for water management
- the **restoration** of aquatic ecosystems.



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KOREA WATER
RESOURCES ASSOCIATION



MISSION

To contribute academic development regarding the earth water and to public welfare



OPERATION FIELDS

- Guide researches and educations.
- Promote symposia, workshops, lectures, field trips and inspection tours for special issues.
- Host and participate in academy meetings home and abroad.
- Grant reward and scholarship



PUBLISHING

- Magazine of KWRA 「Water for Future」: monthly
- Journal of KWRA : monthly
- Proceeding of annual conference
- Books on related water resources engineering
- Research papers
- Investigation reports



ORGANIZE EVENTS

- KWRA annual conferences
- Water engineering Workshop
- Committee's Annual Report Presentation
- IHP(International Hydrological Program) Research
- Symposia and seminars

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KOREA WATER
RESOURCES ASSOCIATION

The major activities of KWRA are follows;



Research and investigation on water resources and hydrological technology



Collection and communication of the data, information and knowledge on water resources and hydrological technology



Education and enlightenment on water resources



Development of hydrological technology



Participation in international organizations related to water issues



Technological exchange and cooperation with external and abroad organization

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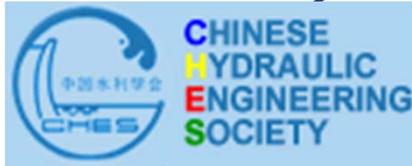
KOREA WATER
RESOURCES ASSOCIATION



JAPAN SOCIETY OF HYDROLOGY AND WATER RESOURCES

水文・水資源学会

Japan Society of Hydrology and Water Resources (JSHWR)



Chinese Hydraulic Engineering Society (CHES)



IHP 국제수문학프로그램
International Hydrological Program

International Hydrological Program (IHP)



International
Cooperation



World Meteorological Organization (WMO)



World Water Council



AWRA
Community, Conversation, Connections

America Water Resources Association (AWRA)



New Zealand Hydrological Society (NZHS)

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KOREA WATER
RESOURCES ASSOCIATION



KWRA website

<http://www.kwra.or.kr/eng/main/>



KOREA WATER
RESOURCES ASSOCIATION

KOREAN CONTACT US

About KWRA | Membership | Committee | Publication | Water Resources in Korea | Link

Welcome to

Korea Water Resources Association

KWRA Magazine

Period of publication : Jan, Mar, May, Jul, Aug, Nov
Notice on contribution of papers : Method of contribution form for contribution

Membership application

Application form with English specifications, downloadable, or Internet application module.

Submission of application form.

Water Engineering Research



Welcome to the KWRA homepage

Korea Water Resources Association (KWRA) is a non-profit organization with more than 2,000 members from practicing hydro engineers as well as academicians in Korea.

KWRA was founded in 1967 to contribute to the academic developments and public welfares regarding the earth waters. Its mission is to explore various countermeasures for a sustainable balance between structural and non-structural approaches toward the efficient water resources managements in Korea.

Interested areas of KWRA include the securement of abundant water resources to mitigate water scarcity, the implementation of comprehensive measures for water management and the restoration of aquatic ecosystems.

KWRA expects to address various approaches and methods used for the prediction and management of water resources, to exchange advanced experiences in the areas of integrated watershed managements and to share new innovative developments for the scientific managements of water resources.

As a member of World Water Council and IHP (International ...

Water Resources in Korea



- Basic features of water resources in Korea.
- Progress of water resources planning and development.
- A Framework for improving water resources management.

MORE





International Water Resources Research Institute (IWRRI)



International Water Resources Research Institute



국제수자원연구소
International Water Resources Research Institute

Where we work: Chungnam National University, Korea

CNU

Daejeon



Creativity, Development, and Service to the community

Established : 1952

Key management policy : 3S
Smart + Stable + Sustainable

Academic program :

- Undergraduate
- Graduate
- Specialized Graduate school



IWRRI Overview

Established : April 2011

Personnel : 25 researcheres

Location :

Room 131-2, Engineering building(E2),
Chungnam National University, Daejeon,
South Korea

Vision and Goals



Excellent Water Resources Services Provider

- Serving as a **center of experts** in the water resources field.
- **Solving water resource problems**, and providing better education, research, planning and community services.
- **Assisting public and private interests** in the context of conservation, development , and use of water resources.

Professional Training and collaboration



Education



Research



Planning

**Community
Service**

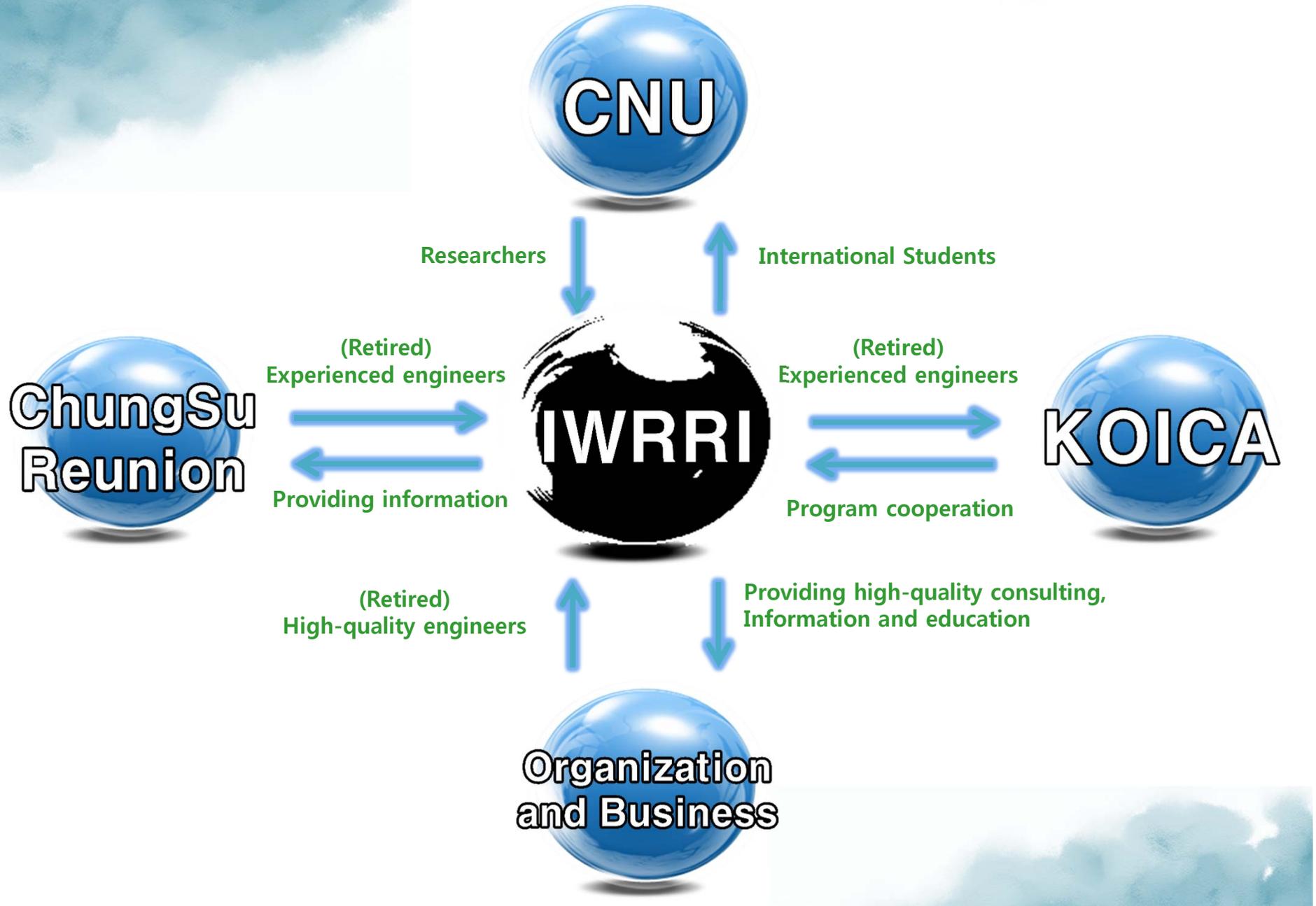


Roles of IWRRRI

International Water Resources Research Institute



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International Water Resources Research Institute



Organization of IWRRRI

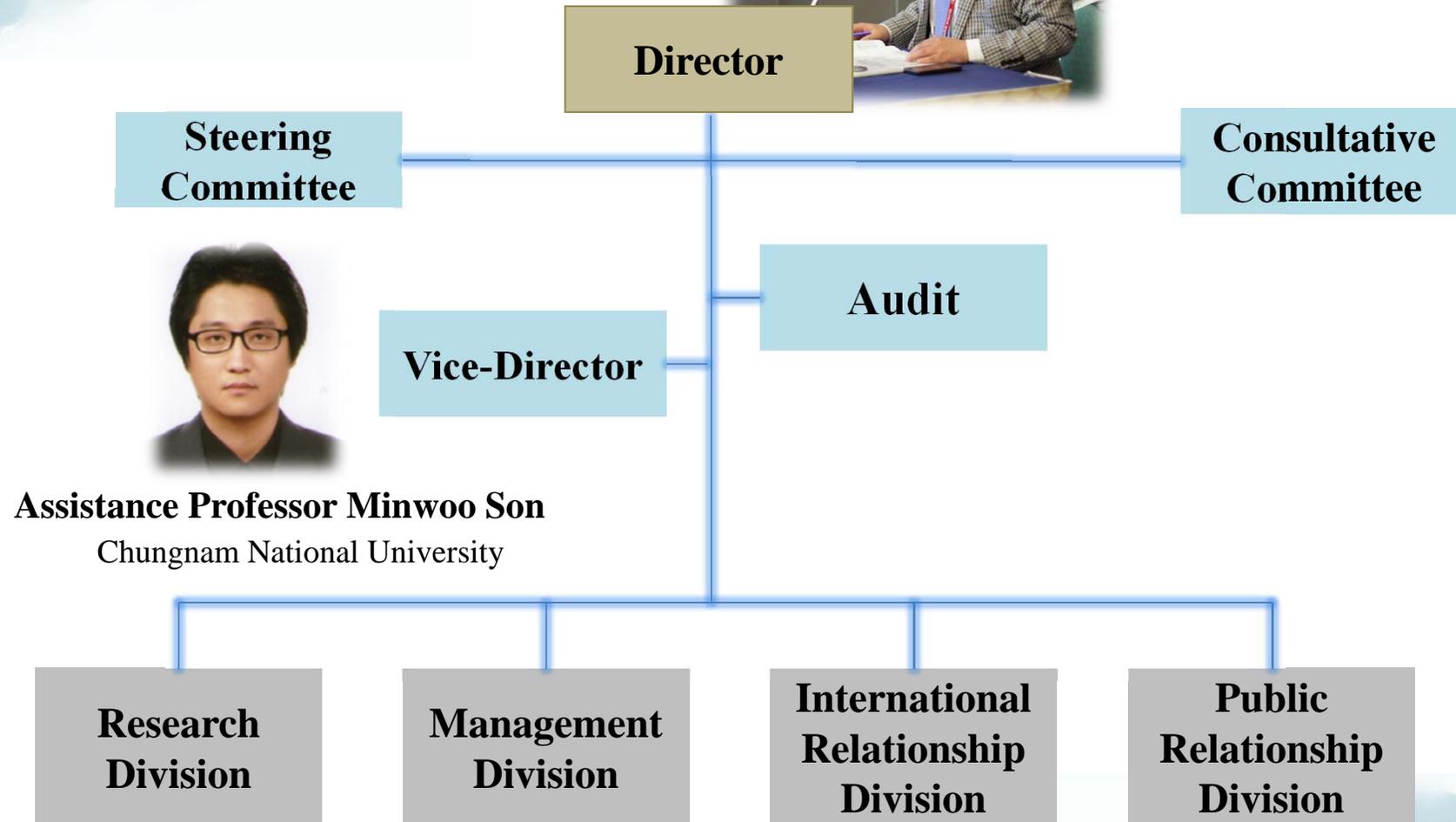
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국제수자원연구소
International Water Resources Research Institute



Professor Kwansue Jung
Chungnam National University



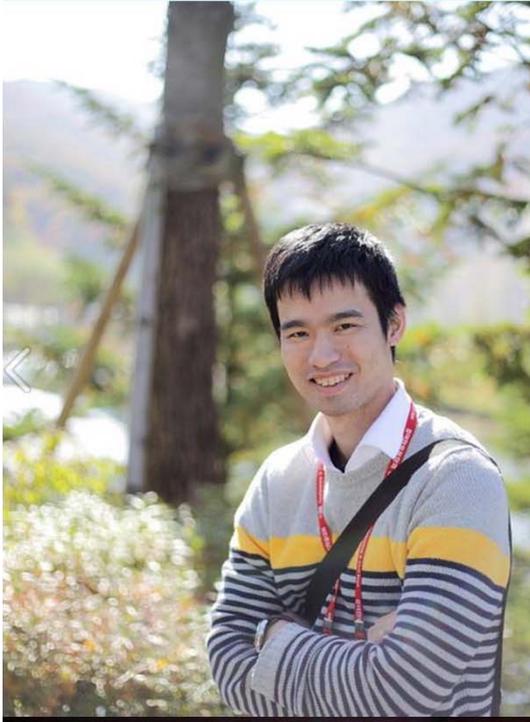
Students and Researchers

International Water Resources Research Institute



국제수자원연구소
International Water Resources Research Institute

10 International and 15 Korean researchers



Endless friendship



International Collaboration

International Water Resources Research Institute



국제수자원연구소
International Water Resources Research Institute



More than 14 world leading institutes from 12 countries



Our highlighted works

International Water Resources Research Institute



국제수자원연구소
International Water Resources Research Institute





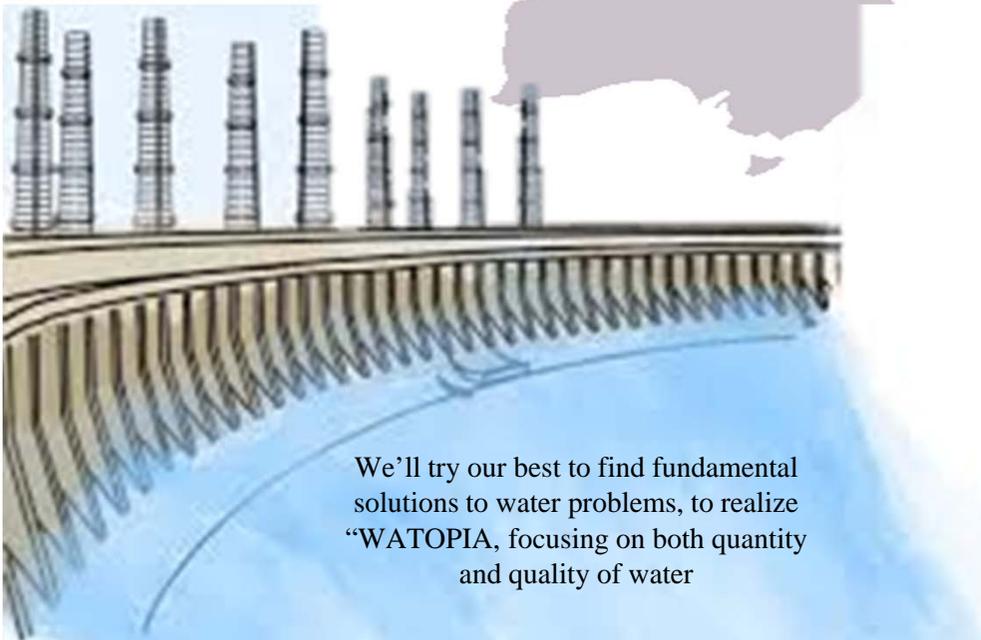
International Commission On Large Dam (ICOLD-Asia Pacific Group)





International Commission On Large Dams (ICOLD)
www.icold-cigb.org

Asian Regional Club (ICOLD-APG)



We'll try our best to find fundamental solutions to water problems, to realize "WATOPIA, focusing on both quantity and quality of water

Objectives

- Encouraging **cooperation and exchanging information, experience and opinion** concerning dam related subjects
- **Activating the Asia-Pacific Working Groups**, Creating agendas on dams and related issues

YOUNG ENGINEERS FORUM



- Provide **opportunities for young engineers**
- **Encourage and mentor the younger generation**

KNCOLD

Pursue **eco-friendly water policies and new technologies**; a paradigm shift towards a new water policy of environmentally sound and **sustainable development, and an integrated management of water resources.**

<http://www.kncold.or.kr/eng/>



Asian Regional Club (ICOLD-APG)

Active Activities

East Asian Area Dam Conference (EADC)

➔ 8th East Asian Area Dam Conference (EADC)

Date: October 20-23, 2014

Theme: Rehabilitation of Aging dams

Revised Agreement of the EADC:

- o The 9th EADC host: Japan in 2016
- o **Expansion of hosting countries to the East Asian areas** including Korea, Japan and China
- ✕ Korea, China, Japan and Mongolia, Philippines, Malaysia, East Timor, Indonesia, Brunei, Singapore, Cambodia, Laos, Myanmar (Burma), Thailand, and Vietnam

7th World Water Forum



Date: April 12-17, 2015

Venue: Daegu, Korea

Theme: Adoptable Managing Strategies for Aging of Water Infrastructures



*Mobilizes creativity,
innovation, and know-how
around water*





Objective of Hydro-Asia

To promote, in a **global Asian vision**, the key concepts, methodologies, tools and good practices which are essential for a sustainable water management.

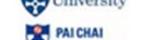
HydroAsia 2014

Objectives: Providing measures to resolve water issues in relation to climate change, the recent global issue, and the opportunity to share scientific techniques and knowledge regarding water control

Date : July 21 – 26, 2014

Venue: K-water Academy



-  京都大学
-  AIT
-  Tsinghua University
-  北京航空航天大学
-  中国农业大学
-  จุฬาลงกรณ์มหาวิทยาลัย
-  Chulalongkorn University
-  CNU CHUNGNAM NATIONAL UNIVERSITY
-  DKU DANKOOK UNIVERSITY
-  HYU HANYANG UNIVERSITY
-  河海大学
-  KAIST
-  南开大学
-  Nankai University
-  Newcastle University
-  PAI CHAI UNIVERSITY
-  KNU
-  KOREA UNIVERSITY
-  UNIVERSITY OF SEOUL
-  NUS
-  SUNGKYUNKWAN UNIVERSITY
-  YONSEI UNIVERSITY



IV Challenge and future cooperation...

Challenge and future cooperation

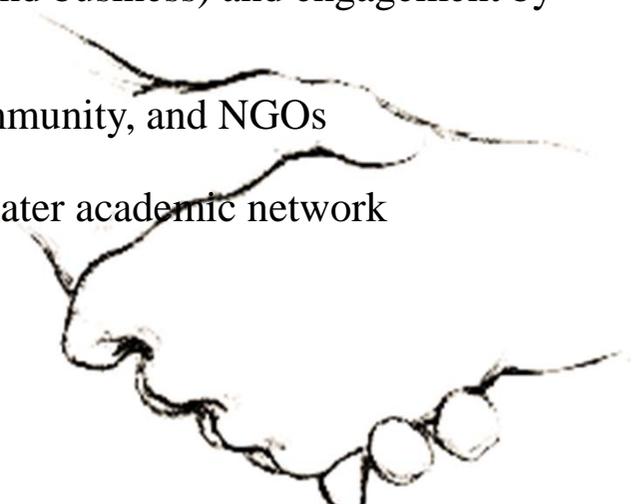


Active IWRM group for water security in this region

- Most of Asian countries have a long history of managing water in order to overcome water resources challenges. However, demand for water is increasing as populations and economies grow and natural disasters such as flood and drought is getting bigger and deeper due to climate change, so **IWRM** could be applied in order to increase water security in this region.
- **Hydrologic and hydraulic modeling group, Ground observation and monitoring group, Smart water grid group**

Set up academic network with ASEAN and outside ASEAN

- Exchange personnel, basic data, research result, and transfer knowledge among institutes
- Innovations through international partnerships (include industry and business) and engagement by starting collaborative projects
- Launch program to encourage relationship between engineer, community, and NGOs
- Establish action group combing diverse international groups of water academic network





thank you!



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International Water Resources Research Institute