

International Centre on Water Hazard and Risk Management & its new training course on "Flood Hazard Mapping"

Public Works Research Institute (PWRI)

Tsukuba, Japan

International Symposium on Living with Risk September 22, 2004 Seoul, KOREA



Public Works Research Institute (PWRI)

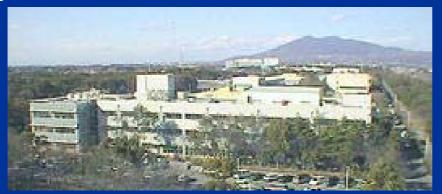
• History 1927: Established

1979: Relocated to Tsukuba

2001: Re-organized into two

institutes (PWRI and NILIM)

- Staff: 219 (including 151 researchers)
- Land area: about 560,000m2
- Number of research topics: 200
- Budget (FY 2004): 6 bil. JPY (55 mil. US\$)



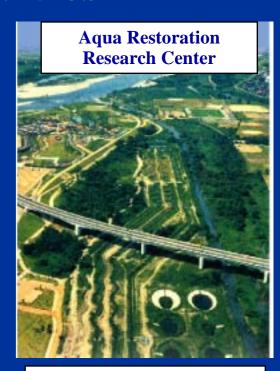






PWRI's activities

- ➤ Numerous water-related research & development projects such as hydrologic & hydraulic research, dam engineering, Sabo and sediment control, and river restoration among others.
- > Joint research, workshops & personnel exchanges through arrangements with:
 - Korea institutes (KICT & KOWACO/KIWE)
 - China Institute of Water Resources and Hydropower Research,
 - Mekong River Commission, among others...



Large-Scale Laboratories (Dam hydraulic)





Water-related disasters as a major challenge

The number of water related disasters is still increasing.



As emphasized at numerous international conferences such as WSSD (2002) and WWF3 (2003), it is needed to improve risk management measures & technologies and to promote capacity building on water-related disasters for poverty alleviation and sustainable development.

PWRI plans to contribute to this challenging area by establishing a new centre in this field.



Framework of the Centre

- ➤ Proposed to establish within PWRI as a global center under the auspices of UNESCO in autumn 2005
- > Mission theme: Water hazard and risk management
- > Activities:

Research, Training, and Information networking

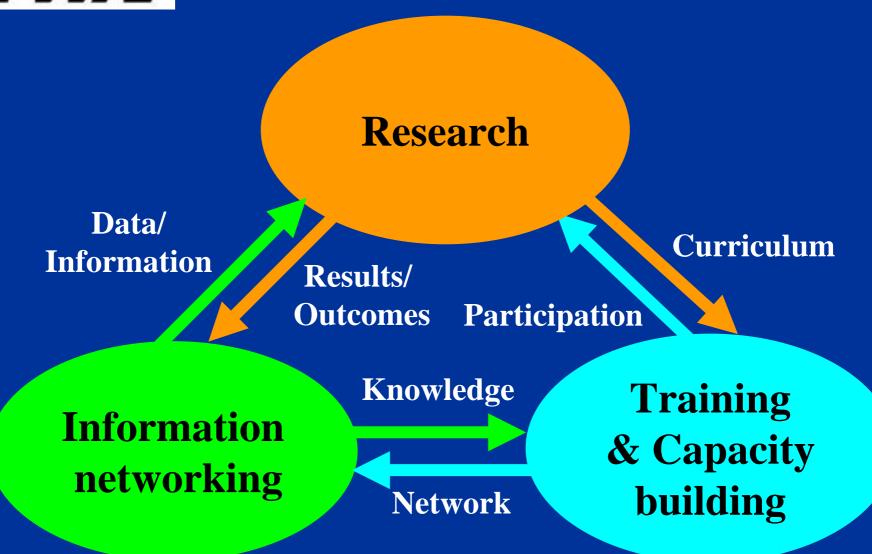
> Partnership with UNESCO-IHP Networks,

UN agencies & other key organizations of the world.





Pillar Activities





Research Activities

Scientific & academic research in the field of water-related hazards & its risk management;

- ➤ Contributing to major global initiatives (such as WWAP and UNESCO/WMO joint IFI/P)
- ➤ Developing hydraulic / hydrological prediction, observation, modeling and analysis; for example development of Global Flood Alert System (GFAS)
- > Promoting risk assessment and risk management technologies for water-related hazards including the impacts of climate change

· · · and others



Information Networking

- > Creating knowledge base & information network by:
 - Collecting, compiling & providing useful information and practices
 - Contacting UN systems & any other int'l resource organizations collaborating with IHP and WWAP
 - Interacting with existing networks (IFNet, JWF, etc.)
- ➤ Information networking will generates synergies to research & training to enhance integration/coordination
 - Research outcomes will be widely disseminated, and feedbacks will be sent back to research
 - Trainees will develop links in their own regions, and local needs for training will be recognized



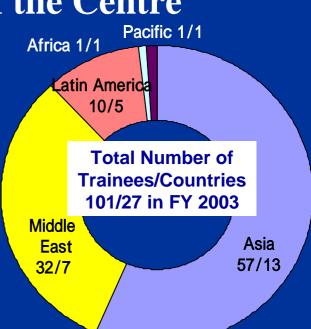
Training Activities - PWRI's experiences and plans -

- Long experiences for over 35 years, including River & dam engineering, Sabo engineering and others.
- Starting a new JICA training course on "Flood Hazard Mapping" & improving the existing courses in response to the mission of the Centre
- Long- & short-term training for experts/ practitioners (students & professionals

exchange,

Internship)







New training course on Flood Hazard Mapping (1)

Objective

- Acquire professional knowledge necessary to produce flood hazard maps
- **Enhance understanding of its effectiveness**
- Understand the way to apply in his/her own country

Framework

- Regionally focused on East & Southeast Asia for 5 yrs (JFY 2004-2008) to be conducted by JICA and PWRI
- 16 trainees from 8 countries each year
- Targeting technical managers or engineers engaged in river/ flood management in the public sector (experienced more than 5 years and aged under 40)



New training course on Flood Hazard Mapping (2)

Planning

- Date: January 26 February 18, 2005 (4 weeks)
- Place: Tsukuba, Japan (PWRI / JICA TSUKUBA)
- > Curriculum: Lectures, Field study and Site visits
- > Lecturers: Professionals from MLIT, NILIM, IDI...

Procedure

- > General Information (GI) already sent to the JICA regional offices, and application will start soon.
- > Deadline of nomination to JICA or Embassy of Japan by November 22, 2004 (N.F & Flood report required)

We are welcoming active application!



Future milestones of preparatory works

- ➤ Now communicating with UNESCO and developing pilot projects, as well as actively participating in the international discussions:
 - Nov 2004: IHP in Southeast Asia (Adelaide, AUSTRALIA)
 - Dec 2004: IWRM International Conf. (Tokyo, JAPAN) & Int'l Conf. on Water & Disasters (London, CANADA)
 - Jan 2005: World Conf. on Disaster Reduction (Kobe, JAPAN)
 - Apr 2005: UN CSD-13 (New York, USA) & UNESCO Executive Board (Paris, FRANCE)
 - Autumn 2005: UNESCO 33rd General Conference

Thank you very much for your attention. http://www.unesco.pwri.go.jp