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## the International Centre for Water Hazard and Risk Management

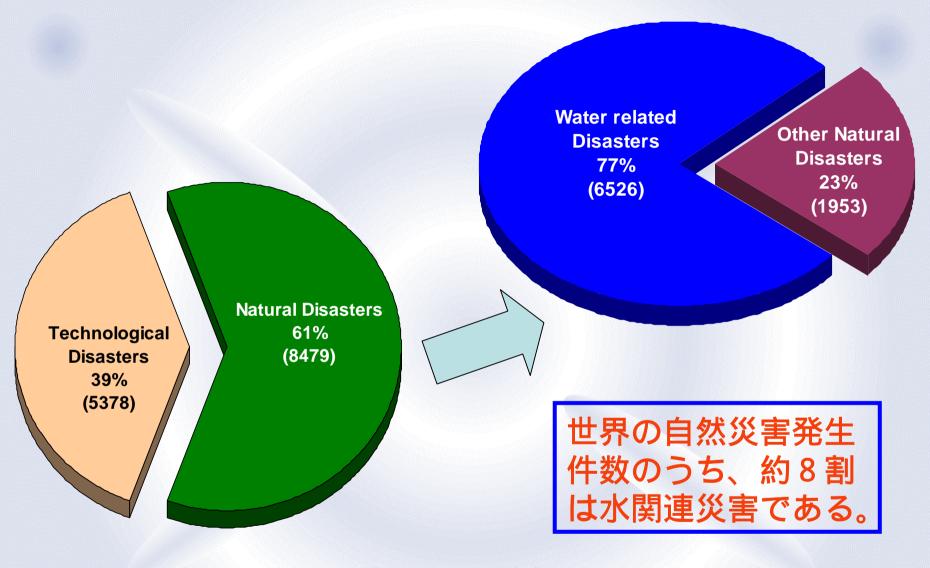
(ICHARM)

under the auspices of UNESCO

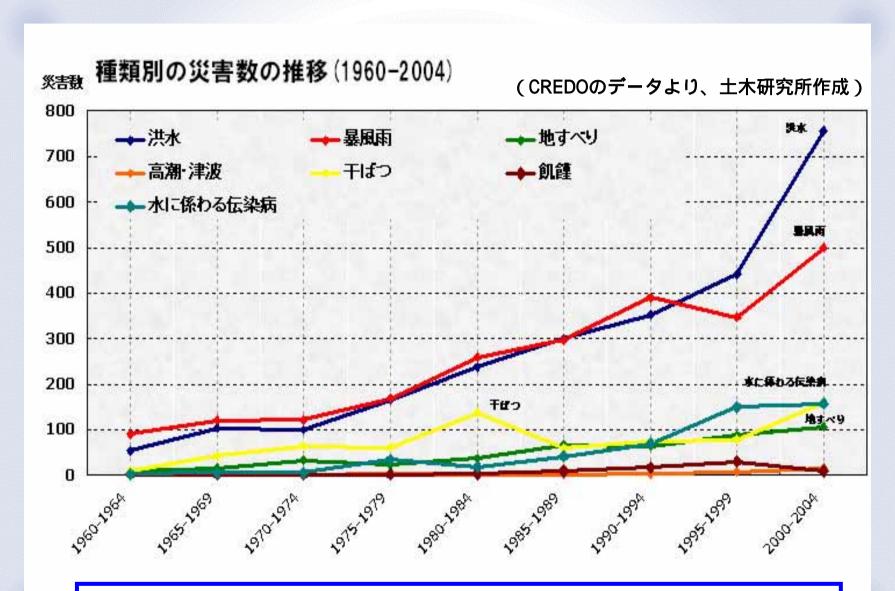
## I am going to talk about

- 世界の水災害の動向 (Trend of water related disasters in the world)
- 土木研究所の概要 (Outline of PWRI)
- ICHARMの活動予定 (Planned activities of ICHARM)
- ICHARMの設立準備状況 (Preparatory activities of ICHARM)

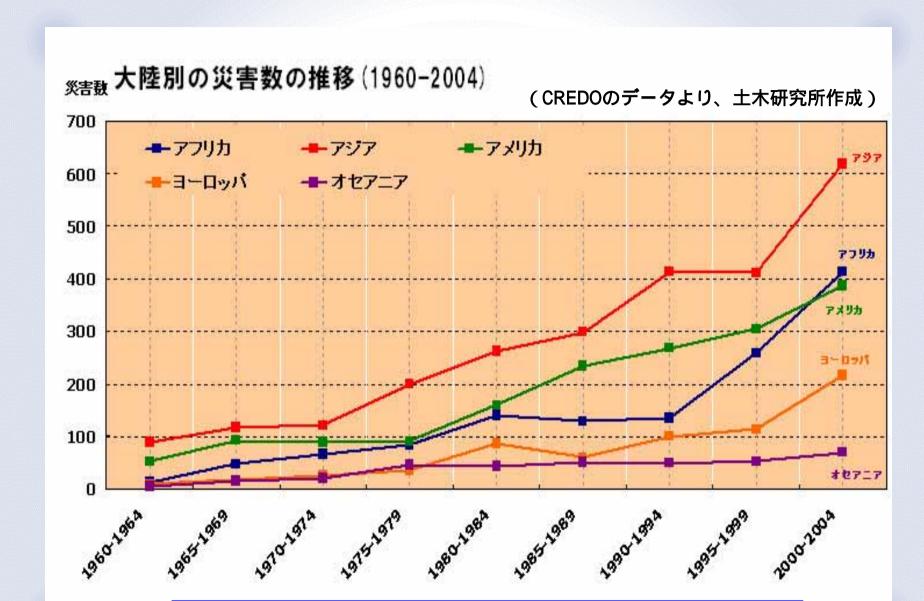




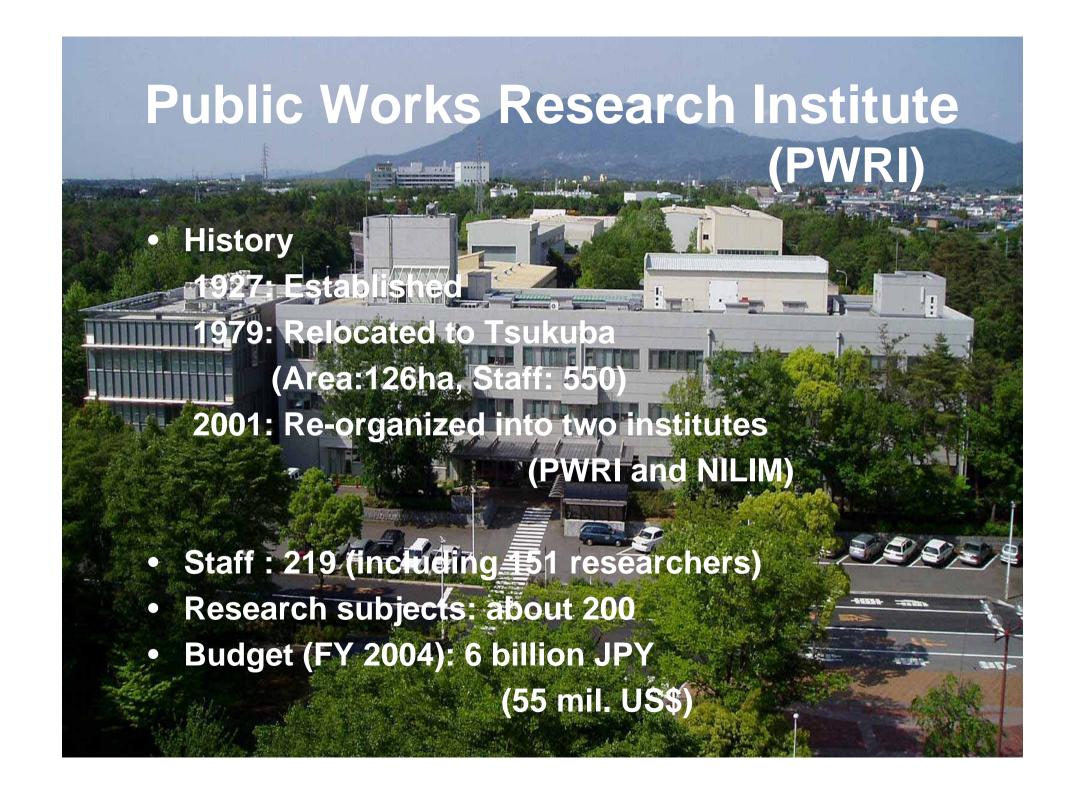
Disasters in the World (1960 - 2004) CREDOのデータより、土木研究所作成



死者10名以上もしくは被災者100名以上等の要件を満たす災害のうち、洪水や暴風雨によるものが圧倒的な比率を占めており、近年増加傾向にある。



アジア地域の水災害発生件数は、世界の1/3以上を占めており、これも近年増加傾向にある。



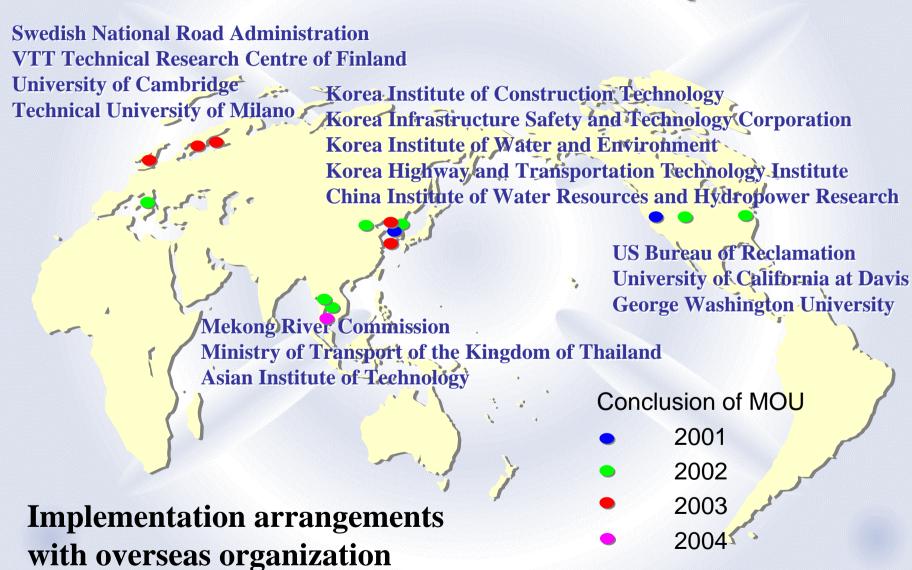
# 200 Research topics focusing on 14 priority research projects

- to ensure safety
- to conserve and restore the environment
- for efficient management of infrastructure

## 9 Research Groups with 20 teams

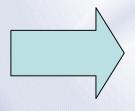
- Construction Technology Research Dept.
- Material and Geotechnical Engineering
- Earthquake Disaster Prevention
- Water Environment (水循環G)
- Hydraulic Engineering (水工G)
- Erosion and Sediment Control (土砂管理G)
- Road Technology
- Structure
- Niigata Experimental Laboratory

### **International Research Cooperation**

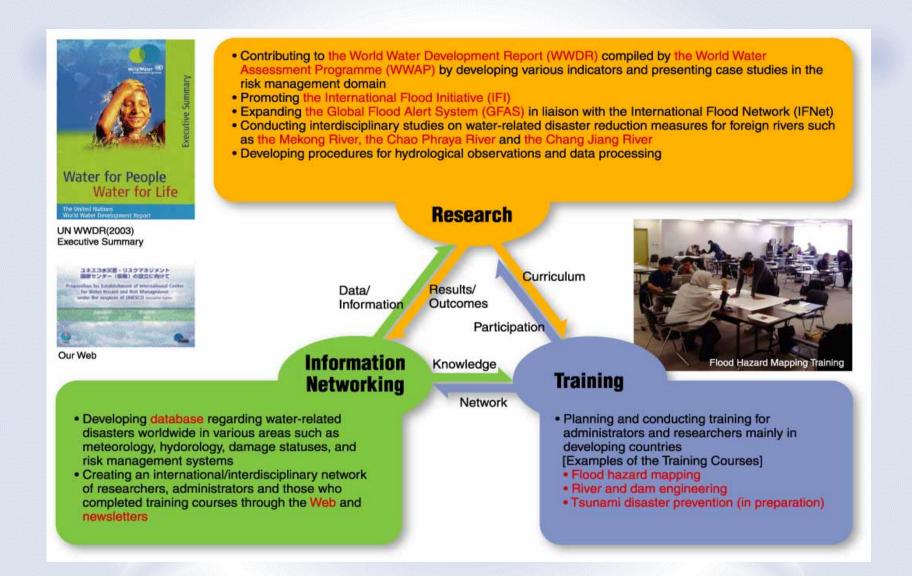


## **Objective of ICHARM**

- Accumulated knowledge and experience trying to overcome water-related disasters
- Global network of UNESCO-IHP for internationally sharing valuable information



Contribution to prevent or mitigate water-related disasters in the world



Research, Training and Information networking activities would be promoted in a combined manner

#### **Activities**

- Research -
- Contribution to international projects such as WWAP and IFI/P (UNESCO/WMO)
- Hydraulic / hydrological prediction, observation, modeling and analysis
- Risk assessment and risk management technologies for water-related hazards under various socio-economic, geographic and climatic conditions

#### **Activities**

- Training and Capacity building -

Conducts JICA training courses, including

- River and dam engineering
- Flood Hazard Mapping



A new course on comprehensive tsunami disaster prevention is in preparation

Strengthen the follow up activities to link the training course to concrete action for preventing or mitigating water related disasters

### TC on Flood Hazard Mapping

#### **Objective**

- Acquire professional knowledge necessary to produce flood hazard maps
- Enhance understanding of its effectiveness
- Seek application in his/her own country

#### **Framework**

- 4 weeks for 5 years (2004-2008)
- 16 trainees from 8 countries of Asia
- Place: Tsukuba, Japan (PWRI & JICA)

#### **Activities**

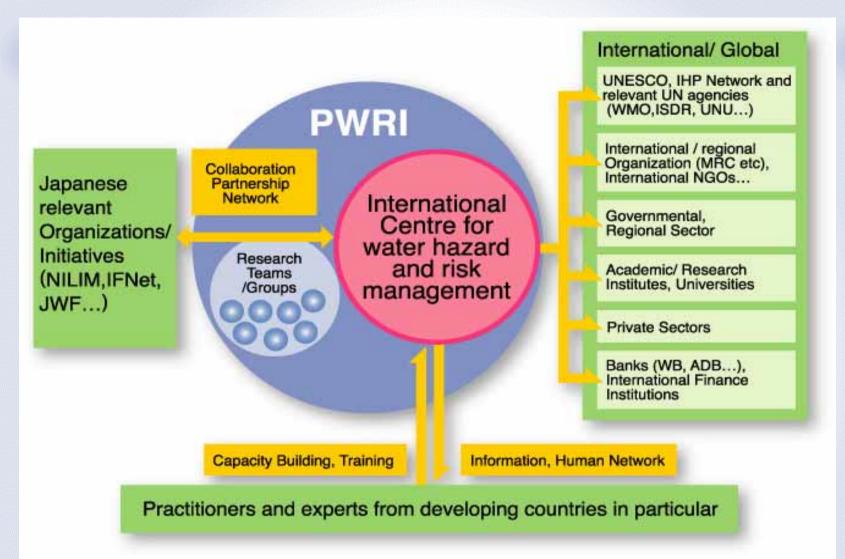
- Information Networking -

Information networking will be synergized with research and training activities

in order to enhance integration and coordination:

#### Through the information network...

- Research output will be widely disseminated
- Feedback from countries / regions will be reflected in the research projects
- Trainees will develop domestic links to their own countries/ regions
- Local needs for training items would be clarified



ICHARM would collaborate with the UNESCO-IHP networks, relevant UN agencies and other key institutes & organizations of the world

## **Preparatory activities**

October 2003

#### 32<sup>nd</sup> UNESCO General Conference

→ Announcement of intention to set up the Centre by the representative of Japanese Government

October 2003

RSC meeting in Southeast Asia & Pacific and in Latin America & Caribbean

→ Resolutions strongly supporting the establishment of the Centre

## Preparatory activities (cont'd)

January 2004

International technical workshop at PWRI

- → Experts from Asia, Africa, East & West Europe, and North & South America
- → Summary Report on directions of the Centre

**International Symposium in Tokyo** 

**April 2004** 

Proposal of the new Center was welcomed at UNESCO IHP Bureau Meeting

**July 2004** 

A preparatory meeting of IFI/P hosted by PWRI

## Preparatory activities (cont'd)

September 2004

**UNESCO IHP Intergovernmental Council** 

→ Resolution to support the proposal January 2005

World Conference on Disaster Reduction (Hyogo Japan, organized by ISDR)

- → Recognition of the role of ICHARM
- → Official launch of IFI





Dr. Sakamoto, CEO of PWRI, at the opening of the thematic session entitled 'Research on Floods and Landslides and a new Initiative for Risk Reduction'

## **International Flood Initiative (1/2)**

#### **Mission**

Promote an integrated approach to flood management

by reducing the risk of social, environmental and economic effects that result in and from floods and increasing the benefits from floods and the use of flood plains

#### **Implementation**

UNESCO, WMO, UNU, UN-ISDR, IAHS · · ·

Secretariat: ICHARM

## International Flood Initiative (2/2)

#### **Guiding principles**

- Living with flood
- Equity
- Empowered participation
- Inter-disciplinary and trans-sectorality
- International and regional cooperation

#### **Strategic Activities**

- Research
- Training and education
- Information networking
- Capacity building
- Technical assistance

## Preparatory activities (cont'd)

#### **April 2005**

UNESCO Executive Board (FA & PX)

→ Draft decision was adopted to approve ICHARM at the General Conference in October 2005.



## Preparatory activities (cont'd)

October 2005

33rd UNESCO General Conference

→ Proposal of the Japanese Government was accredited by 191 member countries





(in the initial stage)

Office space 2,000m<sup>2</sup>

## END

Thank you for your attention

http://www.unesco.pwri.go.jp