

**UNESCO-IHE**  
Institute for Water Education



**A Challenge to Proactive Collaboration:  
UNESCO-IHE & USF Dr. Kiran C. Patel Center  
for Global Solutions  
March 2007**

# UNESCO-IHE Vision & Mission

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Post Graduate Education, Training and Capacity in  
Water, Environment and Infrastructure

UNESCO-IHE **envisions** a world in which people manage their water and environmental resources in a sustainable manner, and in which all sectors of society, particularly the poor, can enjoy the benefits of basic water and sanitation services.

The **mission** of the Institute is to contribute to the education and training of professionals and to build the capacity of sector organizations (public, private and NGO), knowledge centres and other institutions active in the fields of water, the environment and infrastructure, in developing countries and countries in transition.

# **UNESCO-IHE Objectives**

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## **Strategic objectives:**

- **Contribute to UNESCO Science Sector & IHP priorities**
- **Contribute to UN-Water, MDGs, EFA, UN Decades**
- **Support ODA policies and strategies of Member States**
- **Maintain academic excellence in a changing world**

## **Operational objectives:**

- **Develop partnerships and networks (all sectors of civil society)**
- **Encourage entrepreneurship in an academic setting**
- **Respond to demand-driven education and research needs**
- **Employ cutting-edge education methods with partners**

# Functions – Implementing our Objectives

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- Education, training and research functions in Delft and abroad with partners in all sectors
- Standard-setting function for international postgraduate water education and life-long professional training
- Capacity building function – Strategic collaboration with UNESCO Category II Centers; Set up and help manage networks of educational and water sector institutions world-wide
- “Policy Forum” function for UNESCO’s Member States and other stakeholders
- Advisory services function to Member States on water management.

# UNESCO-IHE Inputs and Outputs 2006

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## Institutional Inputs:

- 172 Staff (94 Academic, 78 Administrative)
- 250 ± Guest Faculty
- 4 Academic Programmes / 14 specializations:
  - Water Sciences and Engineering
  - Environmental Sciences
  - Water Management
  - Municipal Water and Infrastructure

## Scientific output:

- 200 MSc students annually (join MSc research students); 13,400 total
- 350 Short Course participants annually; 15,000 total
- 230 Publications / year (80-100 peer- reviewed)
- 12-15 PhD graduates annually (currently 72 PhD fellows)
- 180 ± Projects 2006 (CB, research, tailor-made training, advisory services)

# UNESCO-IHE Alumni Community: 13,400 / 162 Countries / 170 Turkey

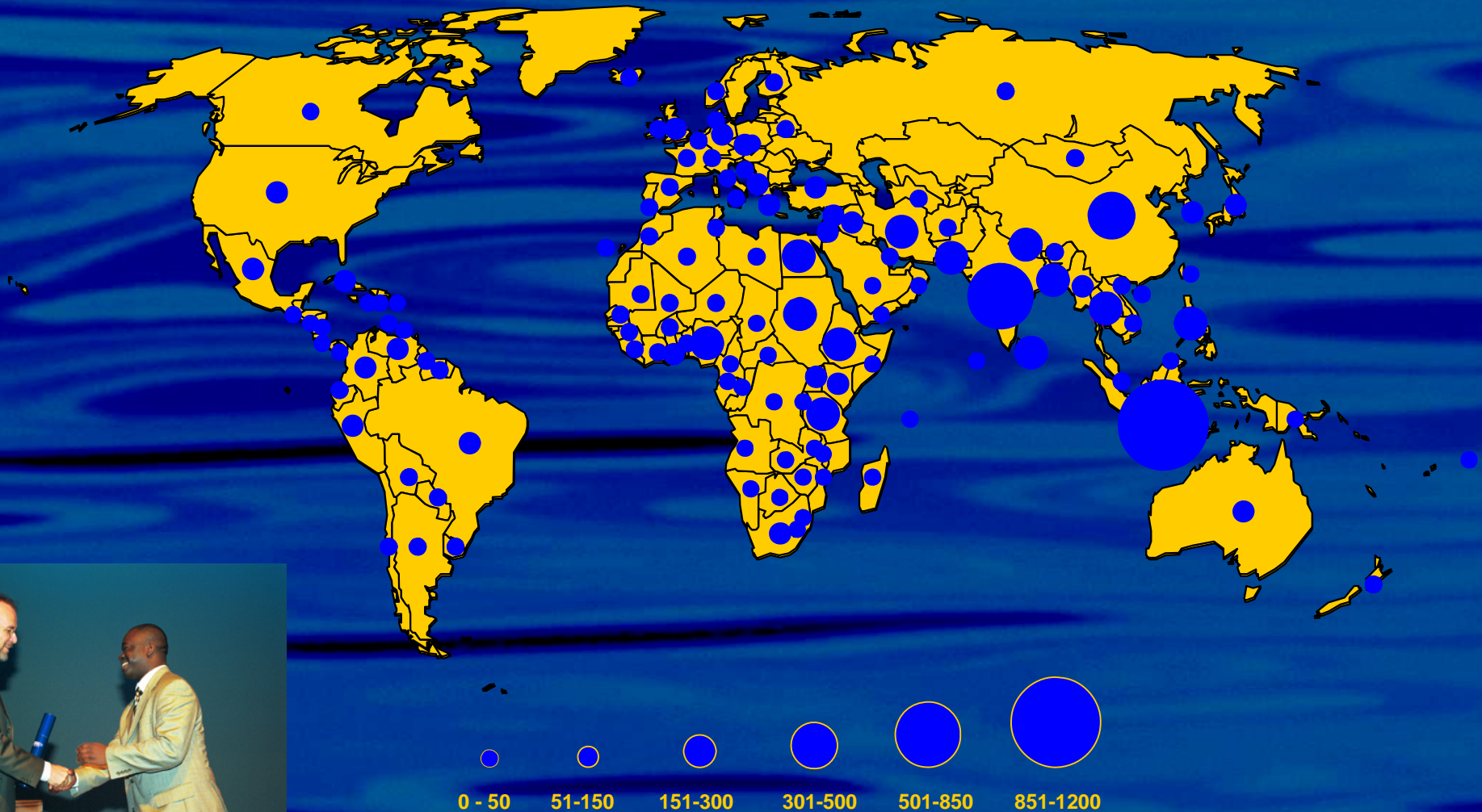
1,400 applications annually vs.  $\pm$  200 fellowships

99% return to their home country

85% still active in the field of water 10 years after graduation

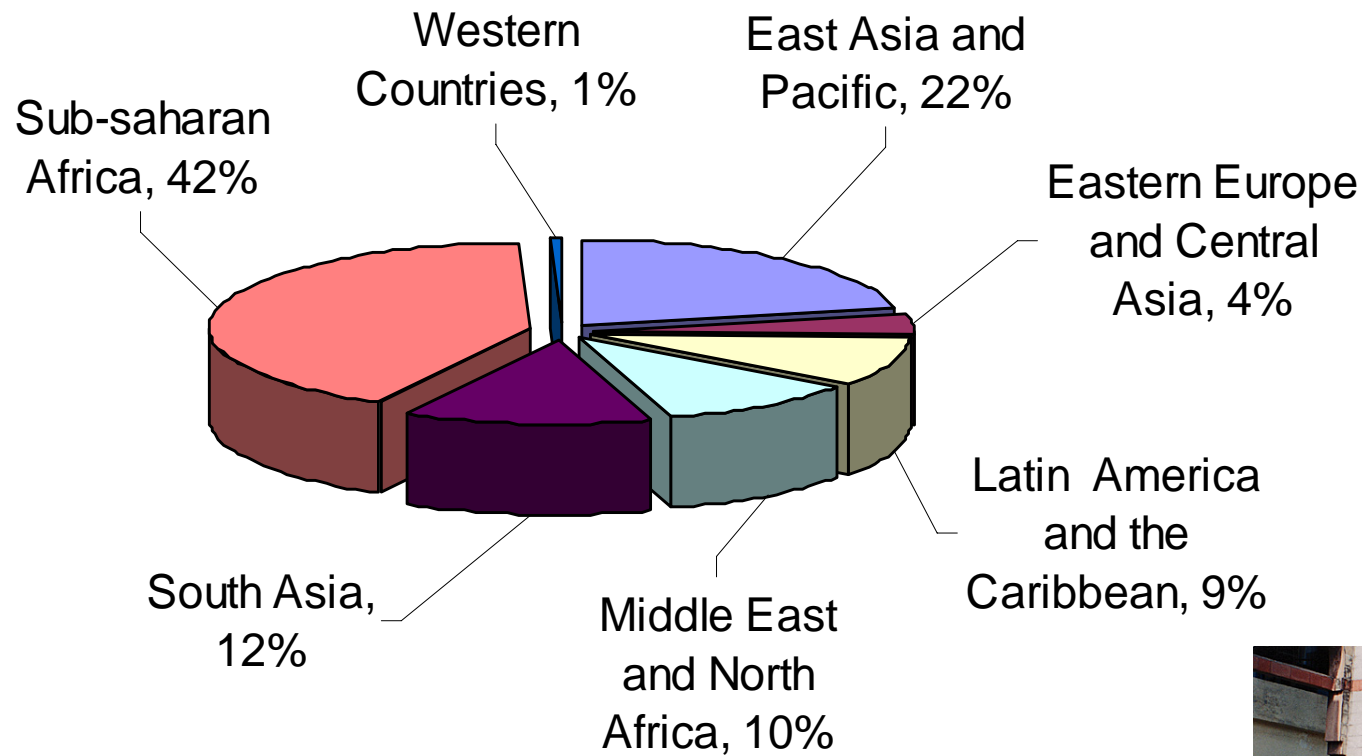
68 UNESCO-IHE Alumni Associations Worldwide

UNESCO-IHE Alumni Community



# Regional Distribution of Participants 2006

Regional Distribution of Participants Academic Year 2006/2007



# **UNESCO-IHE is Distinct** (from other UN and UNESCO Institutes)

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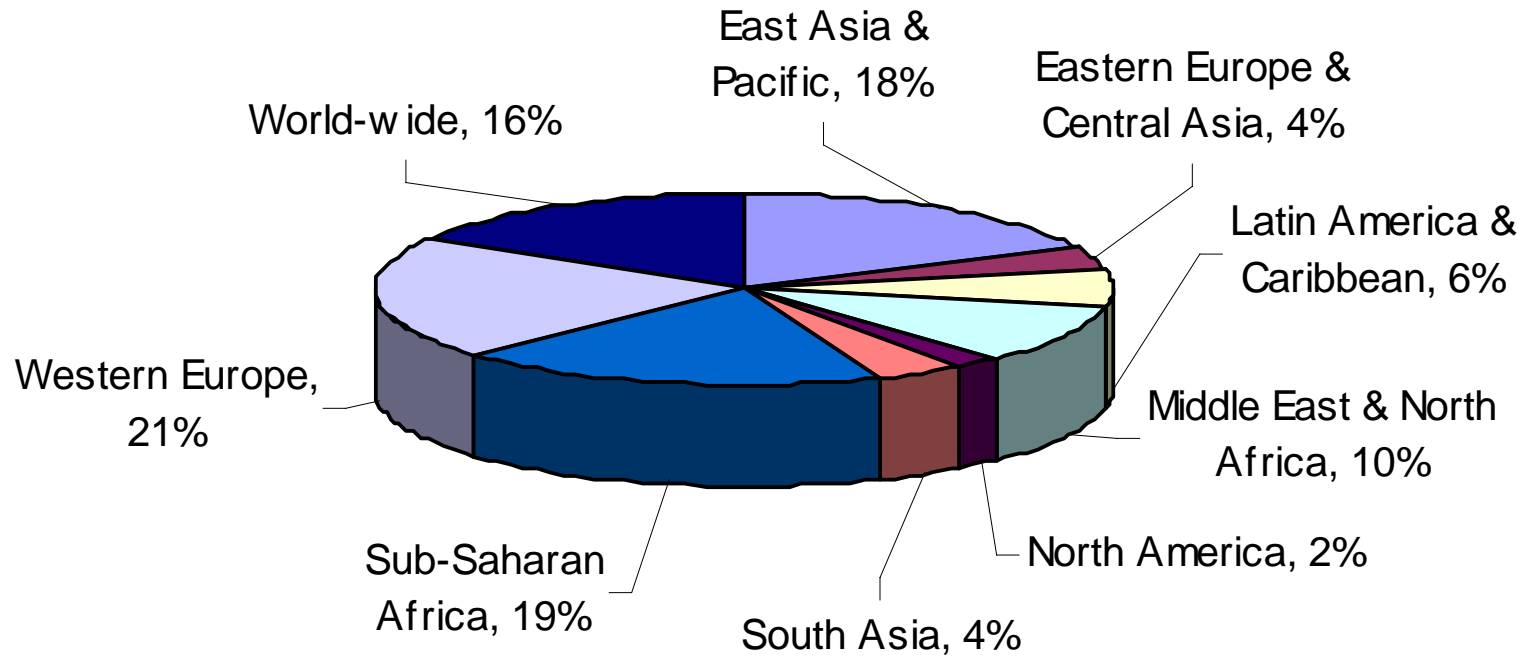
- **Fifty-year history (46 years Dutch Institute, 4 years UNESCO **Category I** Institute – integral part of the UNESCO)**
- **No Regular UN Fund allocation: 100% Extra budgetary to UNESCO**
- **No “Headquarters” overhead charged (“famous 13%)”**
- **Only UN unit with authority to confer accredited MSc and PhD degrees**
- **Educational arm of the International Hydrological Programme**
- **“Hub” of UNESCO Water Centers (Category II Centers)**

**Therefore:**

- **We must stand for academic accreditation**
- **We must be entrepreneurial (public, private, NGO sectors) to raise 63% of our budget (37% subsidy from GoN)**
- **We must maintain our “functional autonomy” (administration, technically – academic freedom, fund-raising, partnering)**

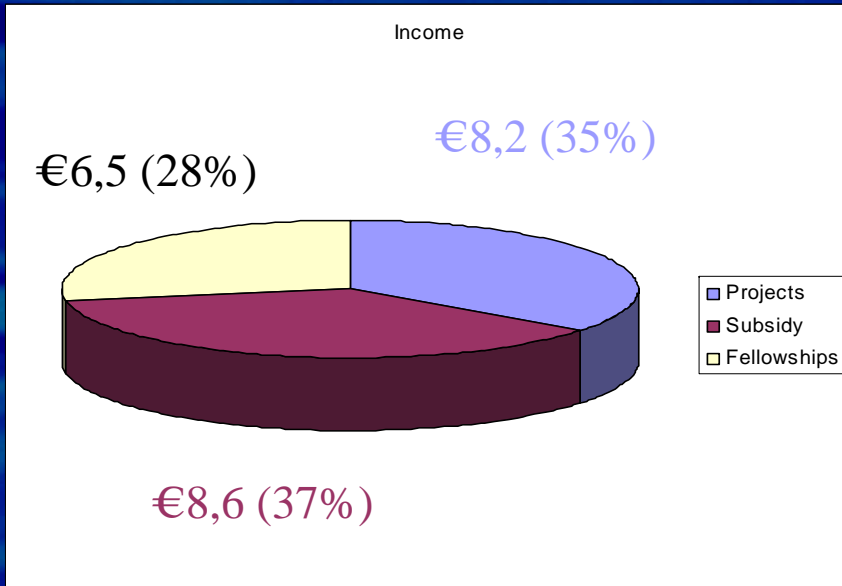
# Regional Distribution of Projects 2006

Regional distribution projects 2006

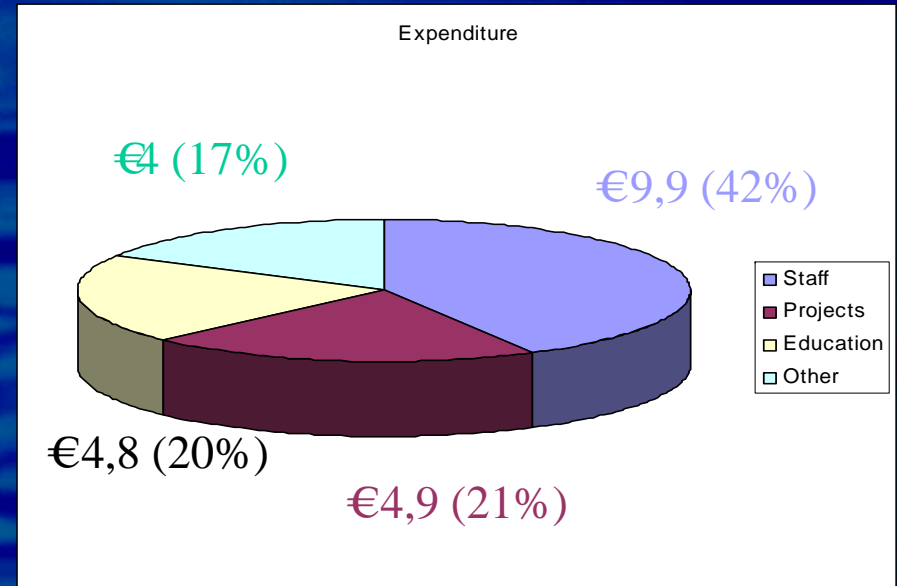


# Budget 2006

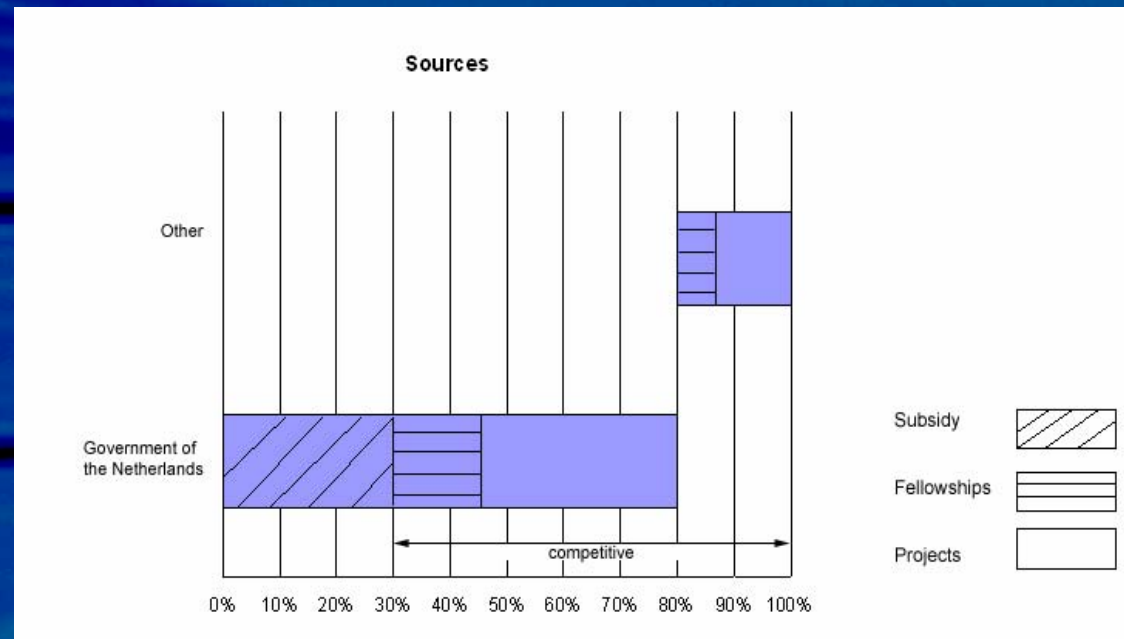
## Income €24 M



## Expenditure €24 M



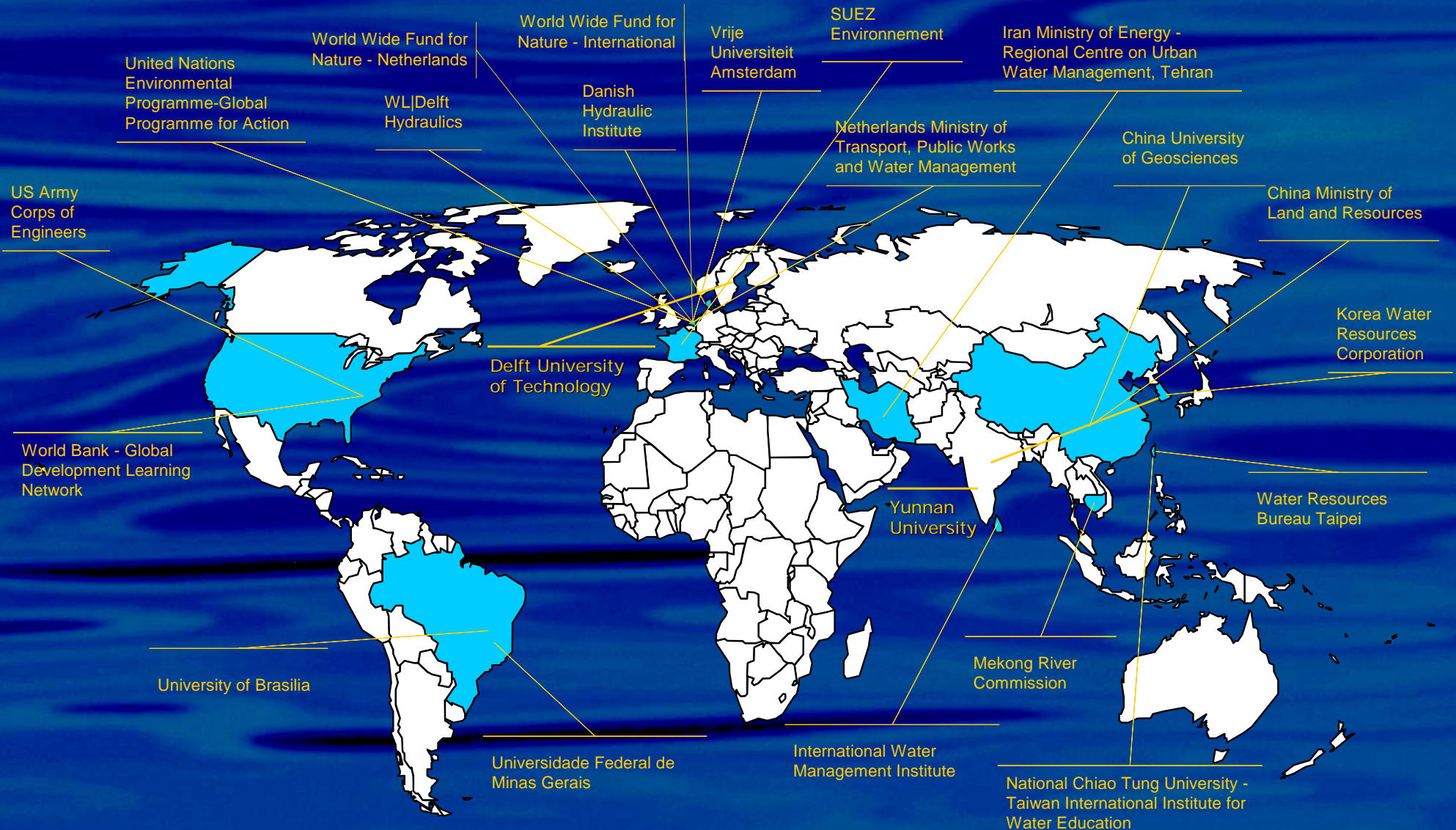
## Funding sources



# Bilateral MoU Partnerships

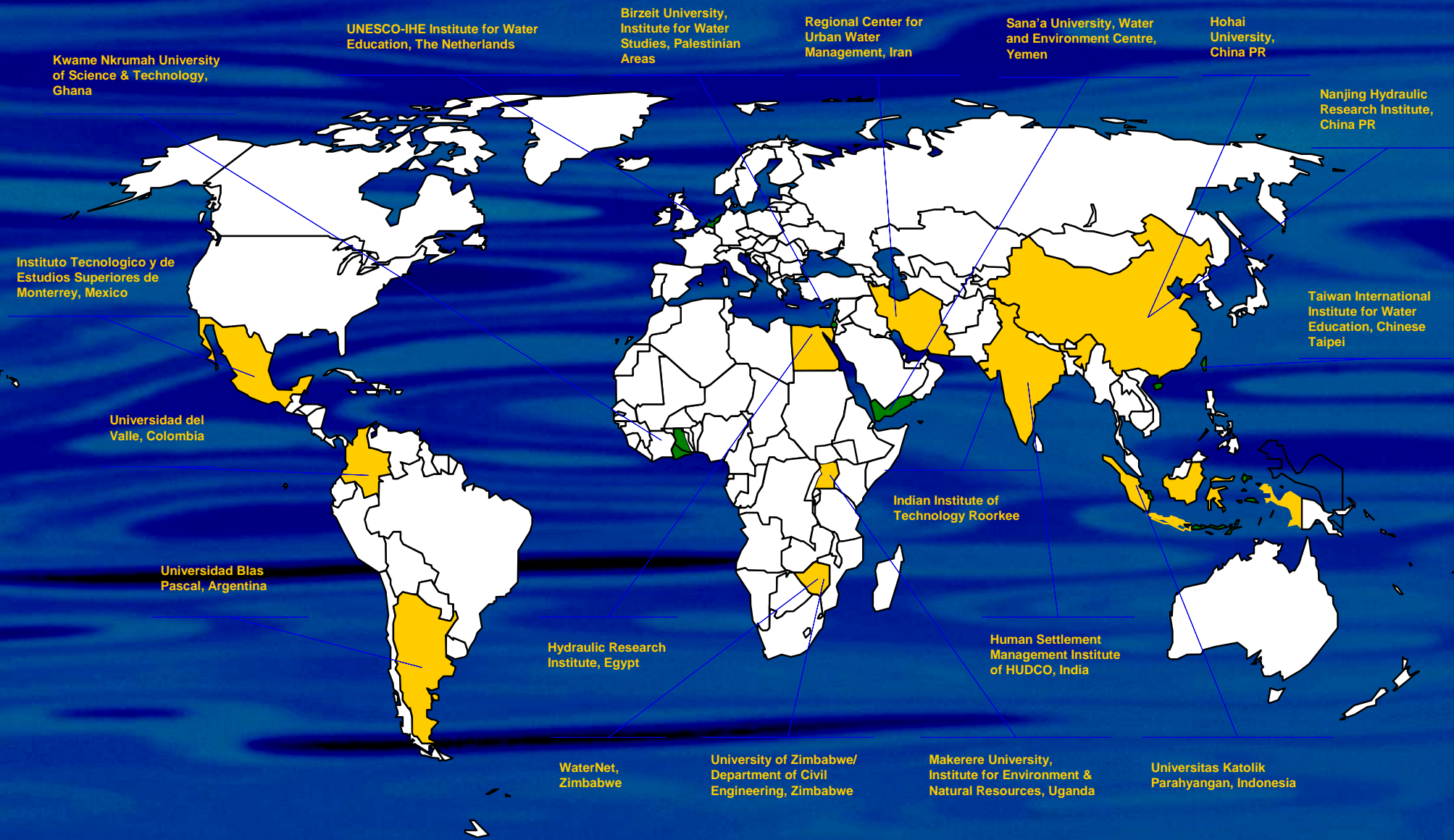


## Bilateral Partnerships



# Multilateral PoWER

## Multilateral Partnership for Water Education & Research (PoWER)



# UNESCO-IHE: An evolving role in the Partnership for Water Education

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- MSc Education will continue to shift from a Delft-based model, towards joint MSc and research programs with partners
- Increasing use of e-learning, blended learning, academic credit exchange with partners
- Research and capacity building functions will intensify with networks of higher education and research institutes
- Increased importance of forum function (WWAP, Category II centers, UN Water, PCCP, IFI, ISI, ISARM, G-WADI, HELP, FRIEND, etc.)
- Standard-setting function (UNESCO-IHE becomes an accrediting body)
- Greater involvement with private sector (via alumni community)

## **Focus on Cooperation Initiatives: Fellowships and Projects**

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- **UNESCO Member States – full / joint fellowships, double / joint degrees, projects (China, Japan, USA, Korea, Panama, Indonesia)**
- **Govt. of the Netherlands (NFP, EcA, MoE, various ODA projects)**
- **Private Sector - Coca Cola Company (Africa initiative); Suez Company (professor chair, projects, research fellowships); Delft Hydraulics, Geo Delft, Delta Institute (research projects, PhD fellows, guest lecturers); AGFUND (fellowships? Institution building?)**
- **World Bank, JJWBTF, SFWMD**
- **NGOs -Rotary International; WWF (professorial chair, projects, research fellowships)**
- **New institutional network collaboration (ICHARM, AIT, CKNet, KOWACO)**

# **Focus on Education: benefits for investors**

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- **The results of postgraduate education are very tangible (through graduates impact MDGs and private sector priorities)**
- **A very effective and efficient way of investing ODA or private funds to specific regions or thematic problems (national or transboundary in nature)**
- **Graduates become long-term counterparts for donors over a career trajectory of 20-25 years**
- **UN bureaucracy and related costs minimized – functional autonomy**

# **Patel Center and UNESCO-IHE**

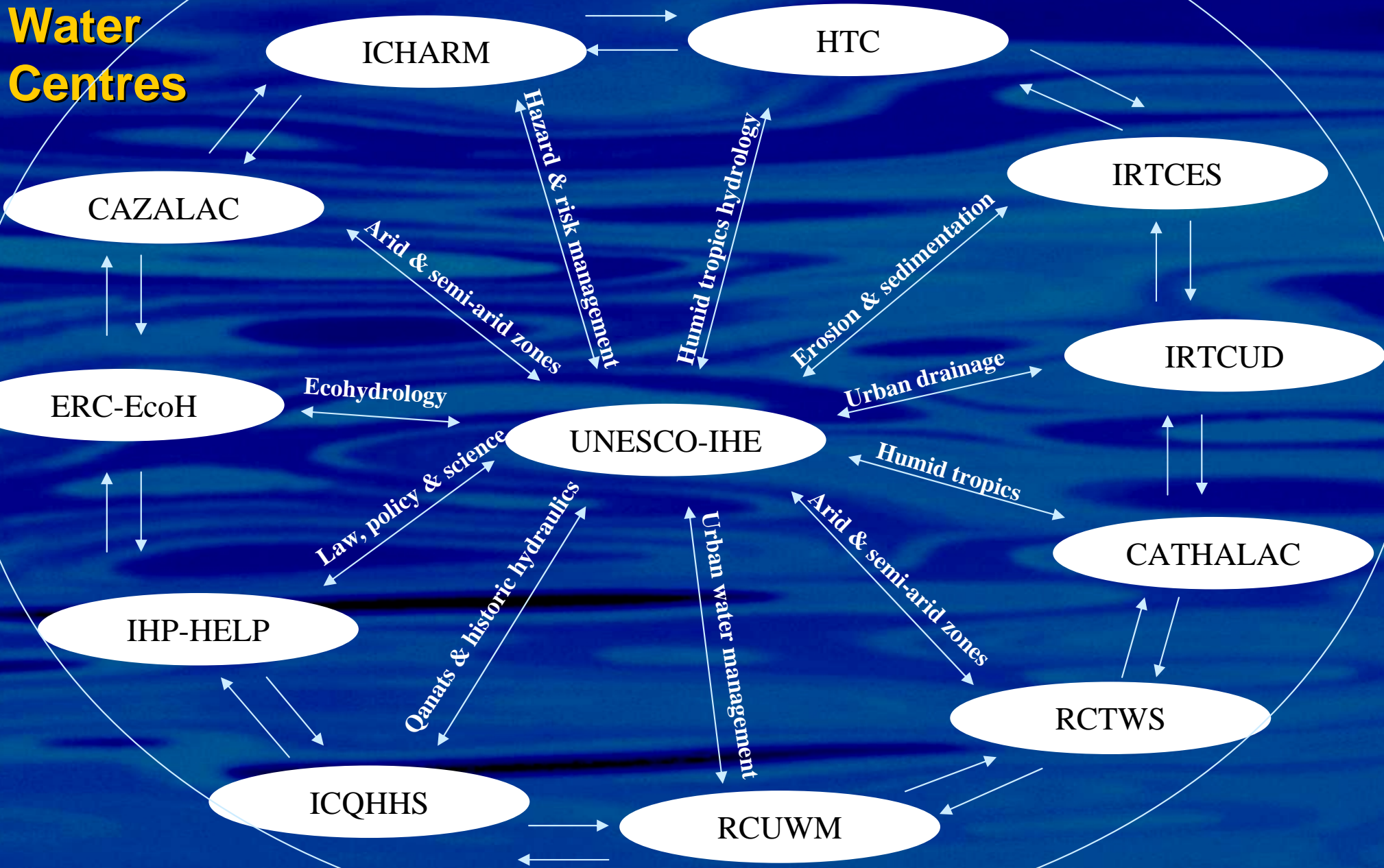
## **Partnership potential**

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- **USF/IHE- installed education & research capacity**
- **IHE - GoN funding ++; USF-NSF funding ++**
- **USF/IHE joint session at WWF5 (Istanbul, March 2009)**
- **IHE - partnerships with UNESCO category II centers**
- **USF – develop cat II ctr (OSU, USACE-IWR?)**
- **IHE - access to our alumni network (potential regional implications)**
- **Joint research and publication possibilities**
- **Joint training opportunities through leveraged/co-funding-degree programmes, short courses, field experiences, credit transfer**
- **Joint On-line training**
- **Staff exchanges -institution building activities with universities**
- **Joint Research / Project Consulting / Advisory Services**

# The World of UNESCO Water Centres

UNESCO-IHP Intergovernmental Council



**Without sufficient qualified professionals to manage water resources and to address water challenges, any other investment is at risk**

# UNESCO-IHE

Institute for Water Education



**Thank You!**