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# THE REGIONAL HUMID TROPICS HYDROLOGY AND WATER RESOURCES CENTRE FOR SOUTHEAST ASIA AND THE PACIFIC

## UNESCO WATER CENTRE II HTC KUALA LUMPUR



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## OUTLINE

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- COOPERATIVE PARTNERS
- RESEARCH ACTIVITIES
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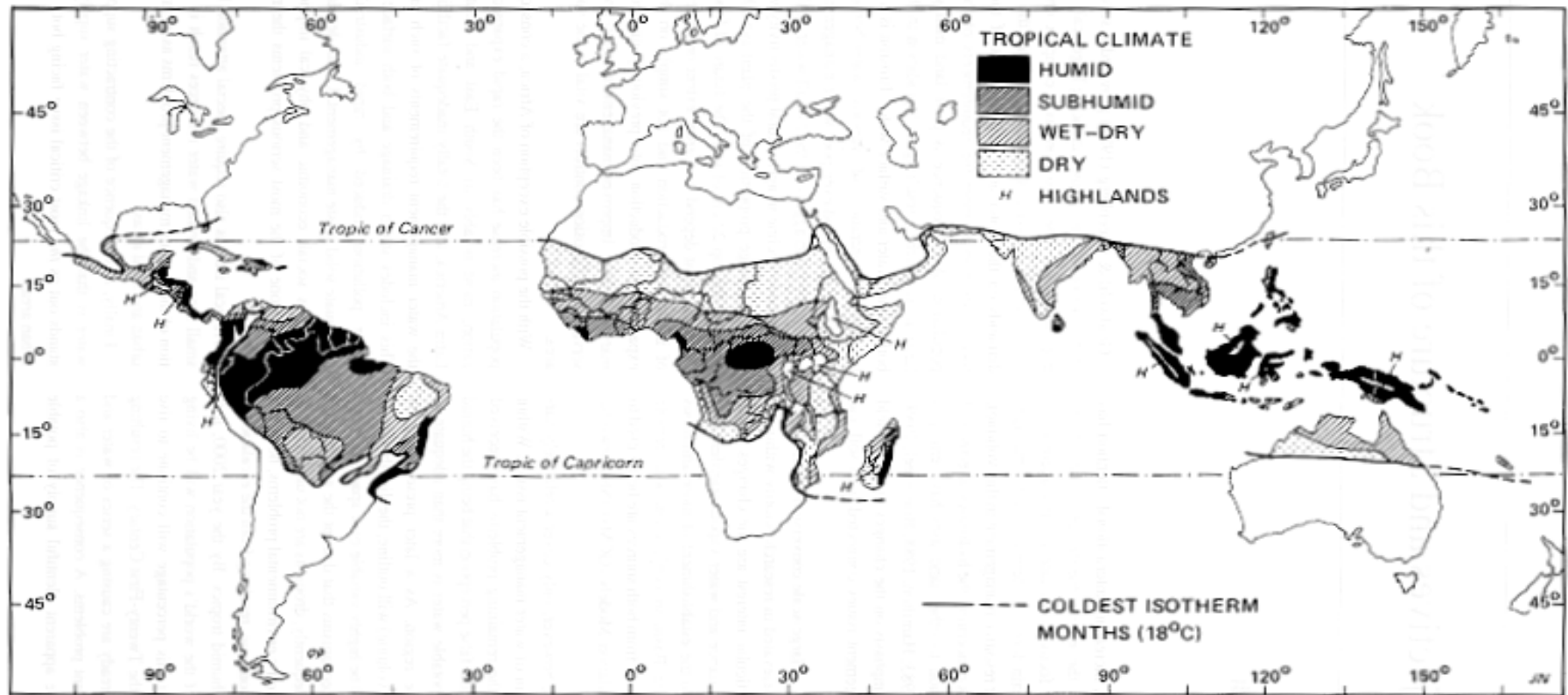
## BACKGROUND

- Started operation in early 1997
- MoU signed 28th October 1999 - Government of Malaysia and the UNESCO
- UNESCO Water Centre for South East Asia and Pacific
- Under the jurisdiction of DID



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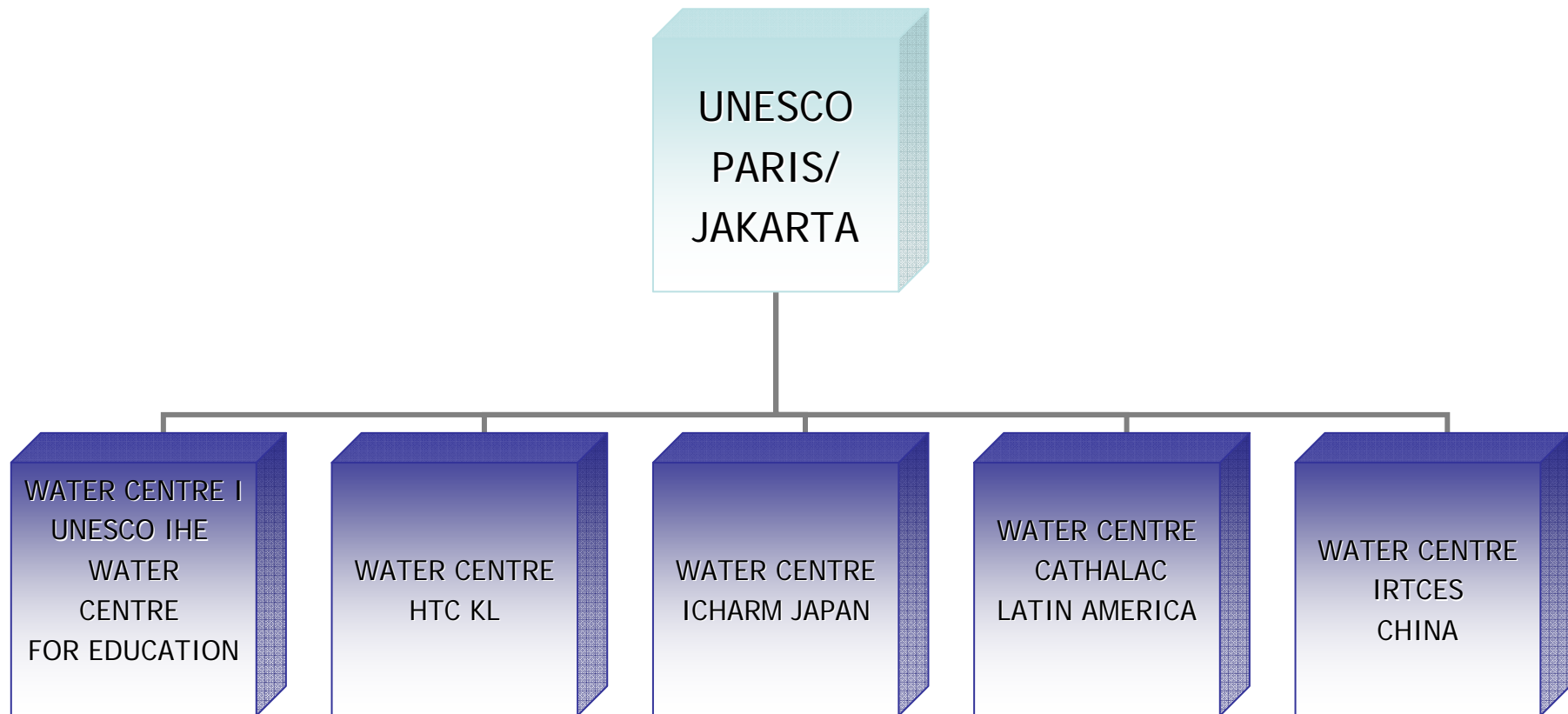
# Humid Tropics Region of the World





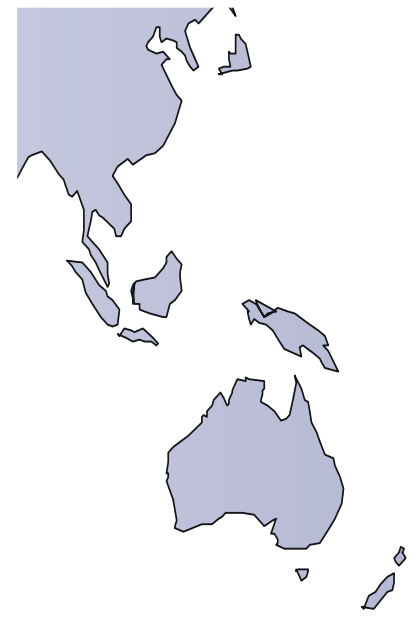
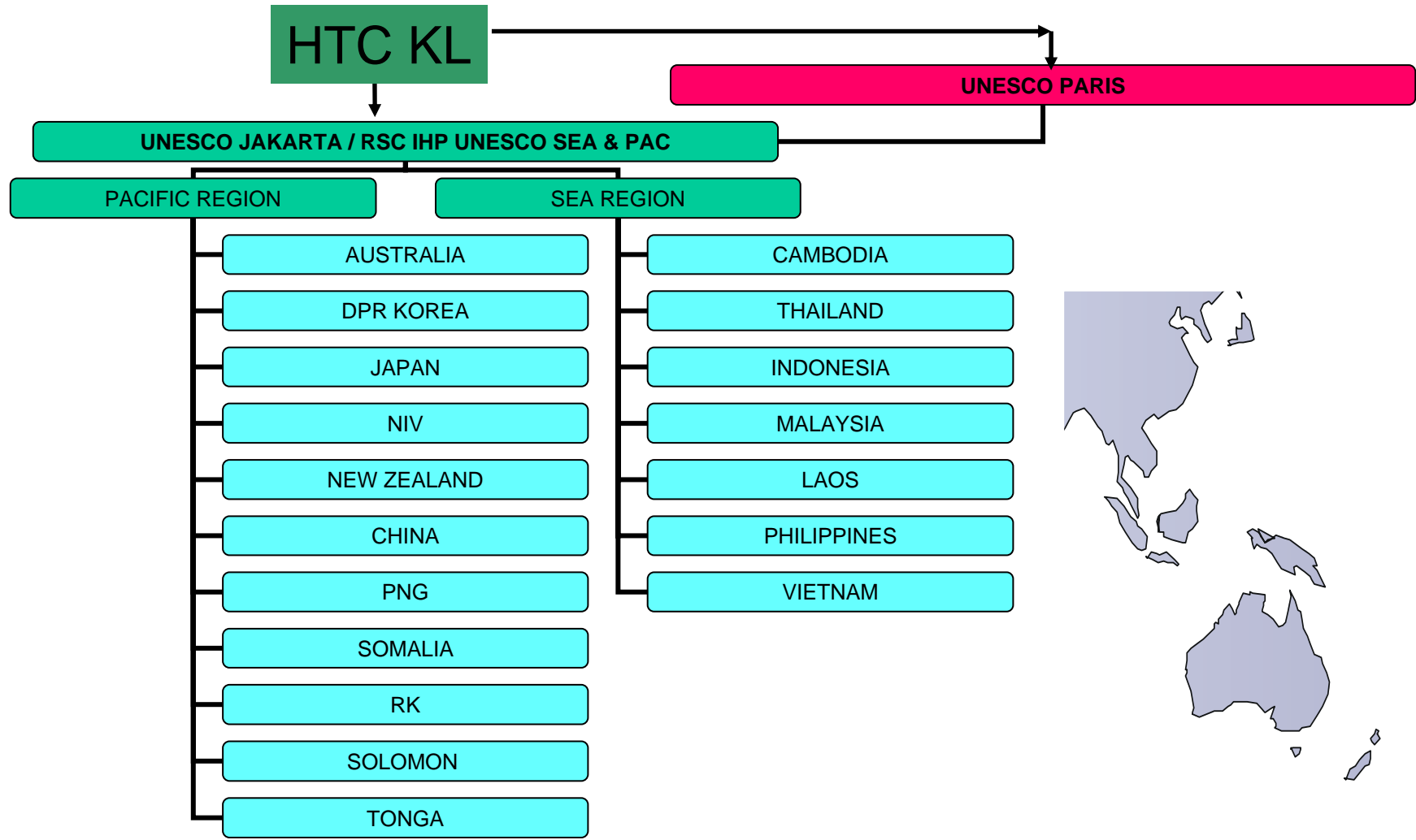
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# Organisation Chart of UNESCO Water Centre





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# LOCATION OF HTC KUALA LUMPUR





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## VISION

**To be World Water Centre of Excellence by year 2020**

## MISSION

**A catalyst in carrying out regional and international collaboration, consultation and partnership**





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## OBJECTIVES

- To promote a conducive atmosphere for collaboration through technology and information exchange, education and science.
- To increase scientific and technological knowledge about hydrological cycle.



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## FUNCTIONS

- To coordinate the implementation of cooperation in the research and activities pertaining to hydrology and water resources
- To enhance the networking of the information within the National Committee IHP and other respective centers for exchanges in scientific and technical information
- To establish and organize training modules, seminars, workshops and conferences for better utilization of latest of technology and design
- To publish the information on hydrological and water resources, vide media for local and international circulation



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## STRATEGY

- Partnership
- Collaborative Actions
- Thematic Focus (eg. Water Security, Environmental Integrity, Urbanization, Integrated Water Management, and the Creation of a dedicated Information and Knowledge Base)
- Innovative approaches
- Demand-responsiveness: functions and actions will be oriented to the solution of problems faced by developing countries and countries in transition



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## COLLABORATIVE ACTIONS

1. Serve/Integrate in regional (arid/humid) Training/ HRD/ ToT Programmes
2. Merge Thematic Disciplines with Regional Needs and Demands
3. Information and Knowledge Sharing and Transfer (common/ linking website (recognizing unesco-family)  
Exchanging : publications, technical materials, trainers/ trainees
4. Joint Project Initiatives (applied research/ capacity building)



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Through

- Regular Meetings based on Actions
- Joint Fund Raising
- Protocol for Collaborations

Kuala Lumpur

HTC



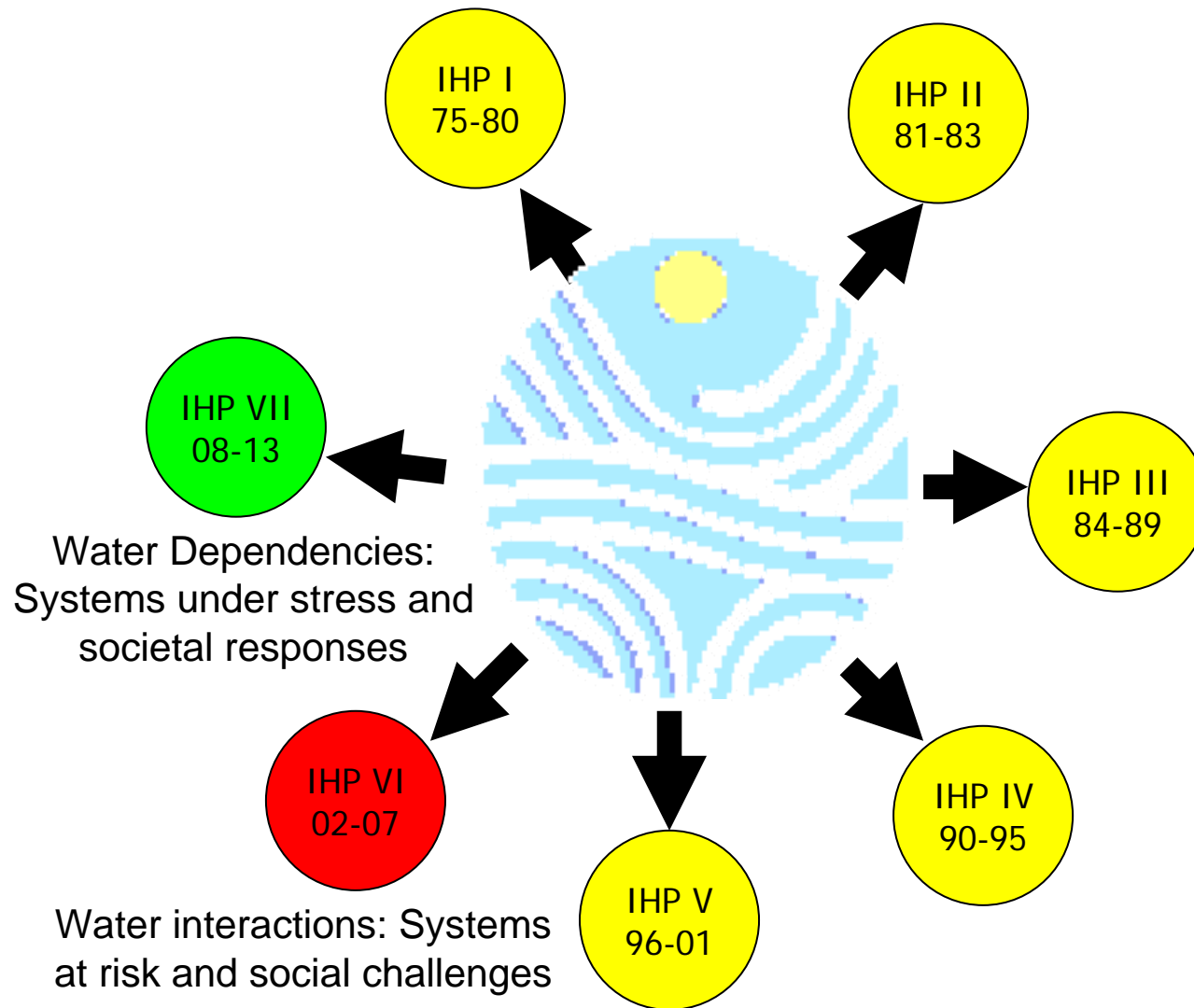


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## CO-OPERATIVE PARTNERS

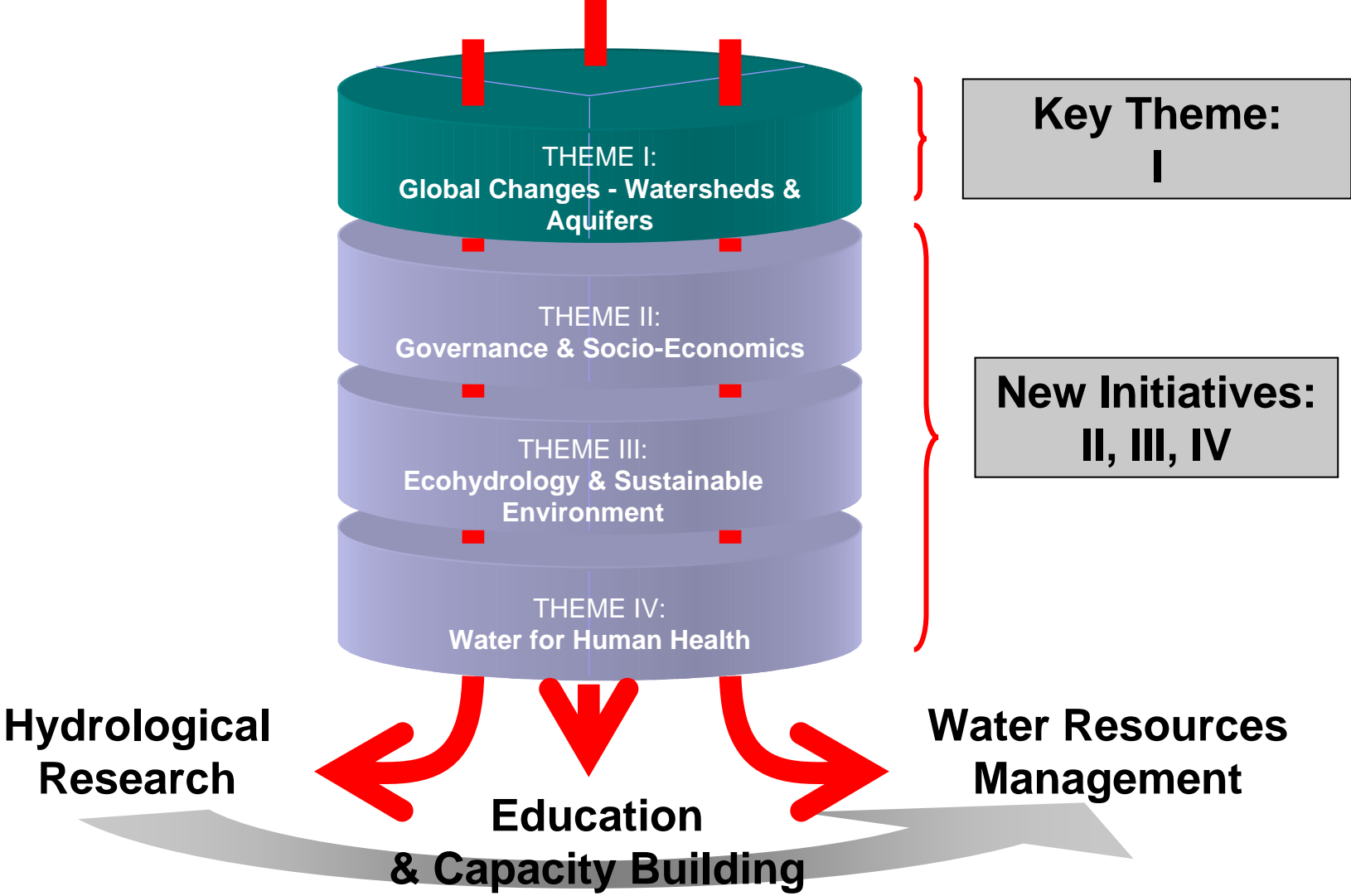
- International Water Association (IWA)
- Joint Committee on Urban Drainage (JCUD) – IAHR/IWA
- Global Water Partnership
- UNESCO WATER CETRES
  - UNESCO-IHE Institute for Water Education
  - ICHARM, Japan
  - CHATALAC, Panama
  - RCUWM, Iran
  - IRTCES, China

# IHP UNESCO RESEARCH PROGRAMMES

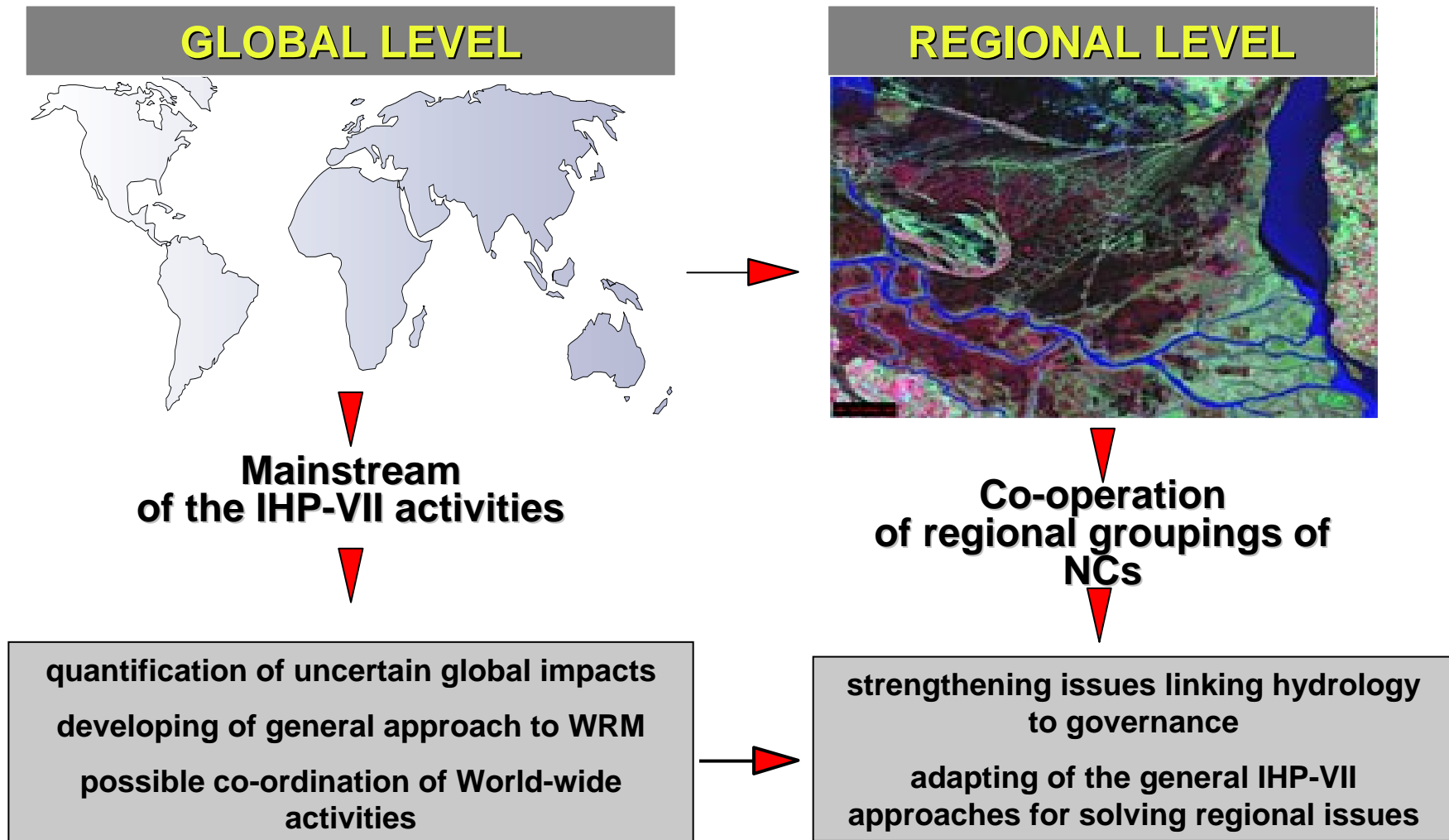


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# CROSS-CUTTING ISSUES FOR IHP-VII



# TWO-DIMENSIONAL STRATEGY FOR THE IMPLEMENTATION OF IHP-VII





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## RESEARCH ACTIVITIES

PRESENT

Local Level

- MIHP / IRPA
  - Runoff Characteristic to Validate MASMA
  - Temporal Pattern of Urban Area
  - Hydrological Balance of Paya Indah
  - Runoff Generation and Catchment Responses in Forested and Agricultural Sites
- Sungai Kerayong – Urban Hydrology





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## RESEARCH ACTIVITIES....cont.

### PRESENT

#### Regional Level

- AP FRIEND Phase II
- Flood Forecasting and Warning System (FFWS)
- IHP UNESCO Phase VI (2002-2007)
- River Catalogue



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## RESEARCH ACTIVITIES....cont.

### FUTURE

#### Local Level

- Escience Fund
  - Leachate Problem in Landfills Area
  - Roles of Constructed Wetlands for Storm Water Management
  - Development of Mudflows Warning System
  - Even Mean Concentration
  - Effectiveness of Erosion and Sediment Control Measures
  - Gross Pollutant Trap
  - Bio Remediation

#### Regional Level

- IHP UNESCO Phase VII (2008-2013)



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## REG/INT ACTIVITIES CARRIED OUT

- 2005
  - UNESCO AP FRIEND Meeting
  - International Training Course on Hydrological Droughts and Low Flows
  - Draft Strategy Plan for IHP Phase VII (2008-2013)
  - AP Friend Phase II Regional Research Project



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## REG/INT ACTIVITIES CARRIED OUT....cont.

- 2006

- The IAHR/IWA Joint Committee on Urban Drainage Meeting
- National Conference on Water for Sustainable Development Towards a Developed Nation
- 14<sup>th</sup> RSC IHP UNESCO for SEAP Meeting
- 5<sup>th</sup> FRIEND World Conference Water Resources Variability Processes Analysis and Impacts
- Draft Strategy Plan for IHP Phase VII (2008- 2013)
- AP FRIEND Phase II Regional Research Project



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## ACHIEVEMENTS

- River Catalogue
- Water Data Archive
- Proceedings and IHP UNESCO Tech. Doc.
- Research Papers
- MS ISO901:2000 SIRIM QAS
- M.Env.Sci (IWRM) programme (OUM)





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THANK YOU