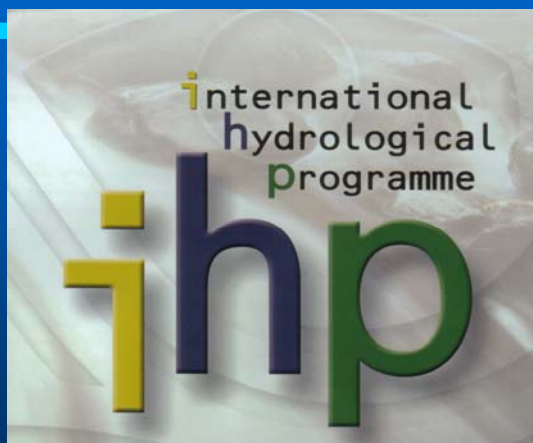


UNESCO IHP Programme's Challenges in relation to SDGs and SETI

Soontak LEE

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President, International Hydrologic Environmental Society(IHES)
Governor, World Water Council(WWC)

◆ What is IHP?



- IHP is the UNESCO intergovernmental scientific cooperative programme in hydrology and water resources.

◆ What is IHP?

WHO WE ARE

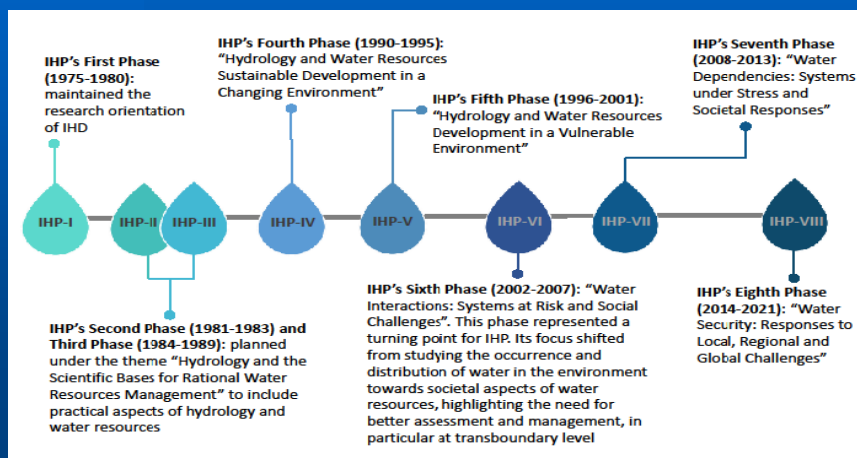
The United Nations Organization for Education, Science, and Culture (UNESCO) established IHP in 1975, as the single intergovernmental programme of the UN system devoted to scientific study of the hydrological cycle and to formulating strategies and policy for the sustainable management of water resources.

- IHP was conceived as an evolving programme, ready to adapt to society's needs and transformations. The Programme is implemented in phases of six years, in order to remain prompt in identifying new, emerging problems, alerting decision makers, raising public awareness and providing the necessary resources to respond with action.
- Today, integrated water resources management poses scientific, technical, socioeconomic, cultural and ethical challenges. IHP is a multidisciplinary programme at the forefront of assuming these challenges. To this end, IHP is a prominent UNESCO vehicle for meeting the UN MDGs and SDGs.

◆ What is IHP?

IHP throughout its successive phases

: shifting to a holistic and integrated approach




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◆ What is IHP?


Implemented through a succession of medium-term phases, IHP has three main objectives:



Mobilize international cooperation to improve knowledge and innovation to address water security challenges

↓


IHP creates bridges between stakeholders from around the world, and is part of a network of more than 1500 experts called the UNESCO Water Family, coordinated by the Division of Water Sciences of UNESCO



Strengthen the science-policy interface to reach water security at local, national, regional and global levels

↓

The results of the international cooperation mobilized by IHP are used to help decision makers adapt their policies based on sound scientific evidence



Facilitate education and capacity development in order to enhance water resources management and governance

↓

IHP organizes courses, trainings and workshops on water-related issues and provides resources and tools at all levels

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◆ Water Security and IHP-VIII

UNESCO

Water security is defined as the **capacity of a population a) to ensure access to adequate quantities of water of acceptable quality for sustaining human and ecosystem health on a watershed basis, and b) to ensure efficient protection against water related hazards (floods and droughts)**. In this context, water security is an increasing concern arising from population growth, drought, floods, degradation of water quality, and climate change (IHP-VIII “*Water security : Responses to local, regional, and global challenges*”)

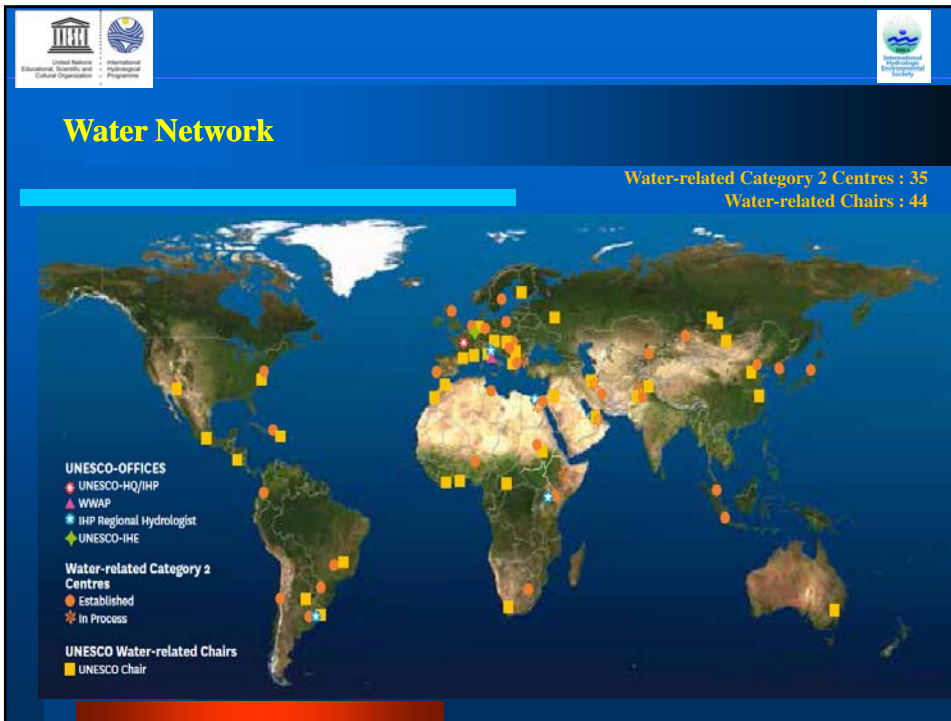
Key Words for Water Security

- ◆ Ensuring
 - Water Supply in terms of both quantity and quality
 - Healthy aquatic ecosystem
 - Sustainable development and economic growth
- ◆ Protecting civil society from
 - Water related disasters, especially driven from climate change



The Eighth Phase of IHP (IHP-VIII, 2014-2021) Water Security : Responses to Local, Regional and Global Challenges





◆ AP-HELP Perspectives

What is HELP?

- **HELP** is acronym for the Hydrology for Environment, Life and Policy which is a cross-cutting program under the International Hydrology Program (IHP) of UNESCO.
- The **HELP** programme was initiated by the international hydrological research community and adopted by UNESCO and WMO in 1999.
- **HELP** is designed to develop scientific research in the application of integrated water resources management (IWRM) through a global network of catchments to improve the links between hydrology and the needs of society.

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Global HELP Activities

◆ The central strategy of Global-HELP is to put in place a global network of catchments and presently 91 basins in 67 countries have been established, dealing with a large number of different research topics in hydrology and water resources.

The diagram illustrates the HELP framework. It features three interconnected circles on a yellow background. The top-left circle is labeled 'Economic' and shows a person carrying a basket on their head. The top-right circle is labeled 'Environmental' and shows a bird in a natural setting. The bottom circle is labeled 'Social and cultural' and shows a person using a water pump. Arrows connect these three circles in a clockwise cycle, with the word 'HELP' centered in the middle of the cycle.

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Hydrology for the Environment, Life and Policy

91 River Basins, 67 countries

Main Page | My Profile | Members | About HELP | Basins | Events | Forum | Blogs | Photos | Videos | Chat | Manage

Members

Hydrology for the Environment, Life and Policy

HELP is a cross cutting and transdisciplinary initiative of the United Nations Educational, Scientific and Cultural Organization (UNESCO) led by the International Hydrological Programme (IHP).
HELP is creating a new approach to integrated catchment management through the creation of a framework for water law and policy experts, water resource managers and water scientists to work together on water-related problems. Read more...

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www.WEFInternational.org

The International HELP Network

Kumho River Basin is an important contributor to the AP-HELP and global HELP agenda

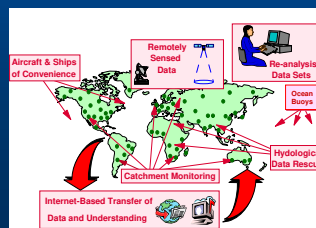
Click on the red dots on the map to see the HELP Basins

Send your feedback to Professor Shahbaz Khan - Global Coordinator UNESCO HELP
Select Language
Powered by Google Translate

International HELP River Basins (Some Active Examples)

- North America : Lake Champlain, Washita Basin, Willamette Basin
- Central and Southern America : Rio San Pedro Basin(Mexico), Reventazon-Parisimina River Basin(Costa Rica), Sao Francisco Verdadero Basin(Brazil)
- Europe : Guadiana Basin(Portugal), Motala Strom(Sweden), Glowa Danube Basin, Mesta-Nestos River Basin(Bulgaria-Greece)
- Asia & Pacific: Tarim River Basin & Heihe River Basin(China), Indus Basin(Pakistan), Murray-Darling Basin, The Burdekin Catchment & Ord River Catchment(Australia), Langat River Basin(Malaysia), Davao Basin(Philippines), Brahmani-Baitarani Basin(India), Motueka(New Zealand), Kumho River Basin(Republic of Korea), Upper Kaligandaki(Mustang) River Basin (Nepal), Syrdarya River Basin(shared by four countries : Kyrgyz Republic, Tajikistan, Uzbekistan, Kazakhstan)

HELP actions through a global network of hydrological catchments for hydrological monitoring and data rescue



◆ IHP-VIII with SDGs and SETI SDGs (Sustainable Development Goals)

**Towards the 2030 Agenda:
17 SDGs for people-planet-prosperity-peace-partnership**

1 NO POVERTY	2 ZERO HUNGER	3 GOOD HEALTH AND WELL-BEING	4 QUALITY EDUCATION	5 GENDER EQUALITY	6 CLEAN WATER AND SANITATION
7 AFFORDABLE AND CLEAN ENERGY	8 DECENT WORK AND ECONOMIC GROWTH	9 INDUSTRY, INNOVATION AND INFRASTRUCTURE	10 REDUCED INEQUALITIES	11 SUSTAINABLE CITIES AND COMMUNITIES	12 RESPONSIBLE CONSUMPTION AND PRODUCTION
13 CLIMATE ACTION	14 LIFE BELOW WATER	15 LIFE ON LAND	16 PEACE, JUSTICE AND STRONG INSTITUTIONS	17 PARTNERSHIPS FOR THE GOALS	THE GLOBAL GOALS For Sustainable Development

On September 25th 2015, countries adopted a set of goals to end poverty, protect the planet, and ensure prosperity for all as part of a [new sustainable development agenda](#). Each goal has specific targets to be achieved over the next 15 years.

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SDG 6 (Sustainable Development Goal 6)

The “water goal” SDG 6
Ensure availability and sustainable management of water and sanitation for all

The diagram illustrates the components of SDG 6. A central white hexagon labeled 'Goal 6' is surrounded by six dark blue hexagons representing specific targets: 6.1 Drinking water, 6.2 Sanitation and hygiene, 6.3 Water quality, 6.4 Water use, 6.5 Water resources, and 6.6 Eco-systems. To the right of this central group are two more dark blue hexagons representing targets 6.a International cooperation and capacity development and 6.b Stakeholder participation.

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IHP with SDGs

IHP's Contribution to the Implementation of SDGs

The Sankey diagram shows the flow of IHP's contributions to various Sustainable Development Goals. On the left, a vertical bar labeled 'IHP' has lines flowing to the right towards specific SDG labels. The SDGs shown are: SDG 1 No Poverty, SDG 3 Good Health and Well-Being, SDG 4 Quality Education, SDG 6 Clean Water and Sanitation (with its icon), SDG 7 Affordable Clean Energy, SDG 8 Decent Work and Economic Growth, SDG 11 Sustainable Cities and Communities, SDG 12 Responsible Consumption and Production, SDG 13 Climate Action (with its icon), SDG 15 Life on Land, and SDG 17 Partnerships for the Goals.

IHP with SDGs

IHP's Contribution to the Implementation of SDGs

To contribute to the follow-up of the monitoring and implementation of the targets of SDG 6 and those of other water-related goals, IHP launched on 31 January 2017 the **Water Information Network System (IHP-WINS)** which objective is to provide Member States with an open source, open access web-based platform as a global reference for decision makers and stakeholders on water-related issues at all levels.

IHP-WINS will support the design and implementation of operations, management, and decision-making for the sound governance of water resources. It will be:

1. A digital **geographical database on the state of water resources** at global, regional, national and local levels;
2. A platform for **inter-disciplinary collaboration and knowledge sharing** among water-related stakeholders; and,
3. A platform for **professional networking and mentoring** among water-related stakeholders.



IHP-WINS is accessible at <http://ihp-wins.unesco.org/>

IHP with Other SETI

Climate Change



The interdependence between water and climate is increasingly evident. The majority of disasters are water-related, resulting in considerable economic and human losses.



IHP is working with scientists and experts worldwide to continue sharing knowledge and tools, and making scientific findings accessible to stakeholders and decision-makers.



Water was included for the first time in the COP agenda during COP 22 in Marrakech, Morocco.



UNESCO was the only UN agency participating at the opening of the Water Day under the Global Climate Action Agenda theme.



UNESCO and IHP availed their expertise to the service of Member States in all water-related areas, including education, training, capacity building and best practices sharing.



We have the means to address climate change: the choice is ours!



IHP with Other SETI

World Water Forums and Panels : WWFs , HELP & HLPW




World Water Forums

- Participated in many SETI Sessions in WWF7 in Daegu-Gyeongbuk, Korea
- Participating in a number of Sessions in WWF8 in Brasilia, Brazil



High-Level Panel on Water

- Co-convened by UN Secretary-General and World Bank President;
- Aims to mobilize effective action to accelerate implementation of SDG;
- 10 Heads of States and Government are members;
- Mauritius and Mexico as Co-Chairs;
- IHP participation as “Friend of the HLPW”



High-Level Expert Panel on Water and Disaster

- Convened at the request of the UN Secretary General's Advisory Board on Water and Sanitation(UNSGAB) in 2007;
- 21 experts in disaster preparedness and response and international issues;
- Reports on Water and Disaster





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International
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Hydrologic
Environmental
Society (IHES)

THANK YOU FOR YOUR ATTENTION !!