

# UNESCO i-WSSM

International Centre for  
Water Security and Sustainable Management



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United Nations  
Educational, Scientific and  
Cultural Organization



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Water Security and  
Sustainable Management



# Water Security



Providing water security is a common goal in the 21<sup>st</sup> century.

(World Water Forum 2000, Ministerial Declaration)

If the stable supply and predictability of water resources are not secured in the contradictory situation of water shortage due to climate change and consistently increasing water demand, the current water crisis hinders economic growth and the implementation of SDGs.

(UN World Water Development Report, 2015)



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i-WSSM

**B**uilding an integrated and problem solving research system to achieve sustainable water resources management, related in particular to addressing challenges faced by developing countries.

**O**perating case-field-oriented education and training programs based on the needs of participating countries.

**D**eveloping a globally networked hub for sharing water resources information, thereby enhancing scientific and technological knowledge on water resources.



| [www.social.un.org](http://www.social.un.org) |

UN SDGs, composed with 17 goals including 169 targets, is adapted at the UN Development Summit Meeting, held in New York in 2015.

Among SDGs, UN set a dedicated goal on Water and Sanitation(SDG6)  
: Ensure availability and sustainable management of Water and Sanitation for all.

One of SDG6 targets is to achieve equitable access to safe and affordable drinking water for all by 2030.

# The 8<sup>th</sup> Phase of IHP

(IHP VIII 2014-2021)

The International Hydrological Programme (IHP) devotes to water research, water resources management, and education and capacity building.

IHP is entering into the 8th phase to be implemented during 2014-2021 in line with eight-year Medium-term Strategy of UNESCO (2014-2021).

IHP puts emphasis on 'Water Security' in response to local, regional, and global challenges.



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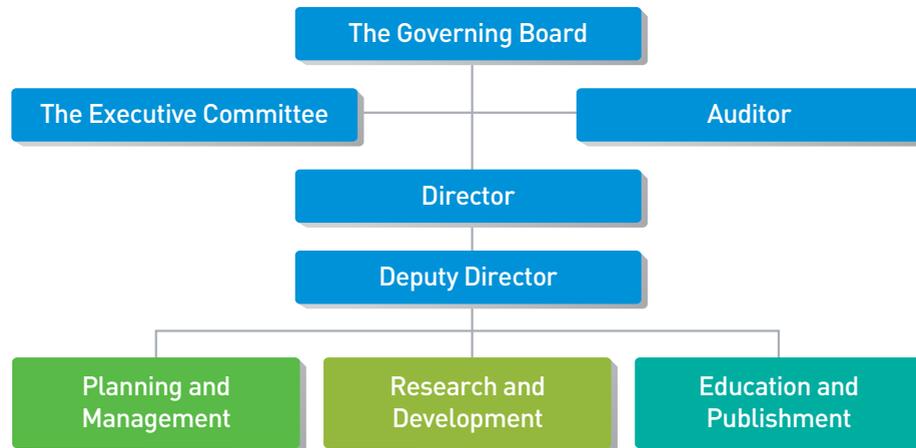
**i-WSSM** is Korea's first UNESCO natural science field international organization established in 2017 by the ROK Government and UNESCO in order to realize sustainable water management all over the world.

**i-WSSM** combines the hubs of research, education, and information. It advocates water security strategies for sustainable growth of developing countries through its interdisciplinary convergence research based on integrated problem-solving, field-oriented education and global networking.



| Relocate to Song-san global R&D center in 2020 |

## Structure



## History

Dec 2011	Submission of i-WSSM establishment proposal to UNESCO
Nov 2013	Approval of proposal at the 37 <sup>th</sup> UNESCO general assembly
Dec 2016	Singing of the establishment agreement between Korean government and UNESCO
May 2017	Official establishment of i-WSSM
Jun 2017	Opening ceremony

## Mission and Vision



## “3A” Water Security Conceptual Diagram



**A**dequate water means adequate amount of water that can be used as much as needed without shortage.

**A**ceptable water represents acceptable quality of water that is able to be used without fear of disease or health.

**A**ccessible water reveals accessible area of water that can be approached whenever & wherever without any environmental obstacles.

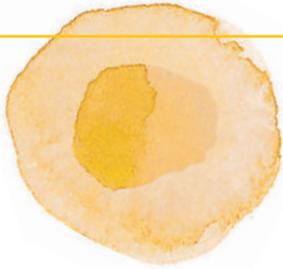


**“3A”** Water Security enhances **“3S”** world  
Sustainable environment, Stable society and Sound economy.

# Strategic Tasks

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## 01 Integrated & Problem-solving Research

- Global Water Security Agenda Development
- Multidisciplinary & Integrated Methodology Research
- Water-Food-Energy Nexus Research



## 02 Case & Field oriented Education & Training

- On-site Field Diagnosis
- Customized Capacity Building
- Master's & Doctorate Programme



## 03 Globally Networked Cooperation Platform

- Global Cooperation & Partnership Enhancement
- Information Sharing Platform Establishment
- Smart Institutional Management





## Integrated Problem-solving Research

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**i-WSSM** establishes effective ways to improve water security in developing countries through integrated research considering the economic, social, political, technological and institutional influencers of current global water security in the context of Sustainable Development Goals(SDGs).

Through establishing integrated research system for solving global water issues, analyzing and applying the results to developing countries, i-WSSM aims to improve water security sustainably.



## 01 Global Water Security Agenda Development



i-WSSM invigorates discussion of global water security by publishing 'Global Water Security Issue' papers and organizing sessions that discuss new and emerging water security issues with experts and development practitioners engaged in water sector at home and abroad.



## 02 Multidisciplinary & Integrated Methodology Research



i-WSSM conducts research to develop integrated methodology applying successfully to target countries with a variety of international water-related organizations to solve global water problems.



## 03 Water-Food-Energy Nexus Research



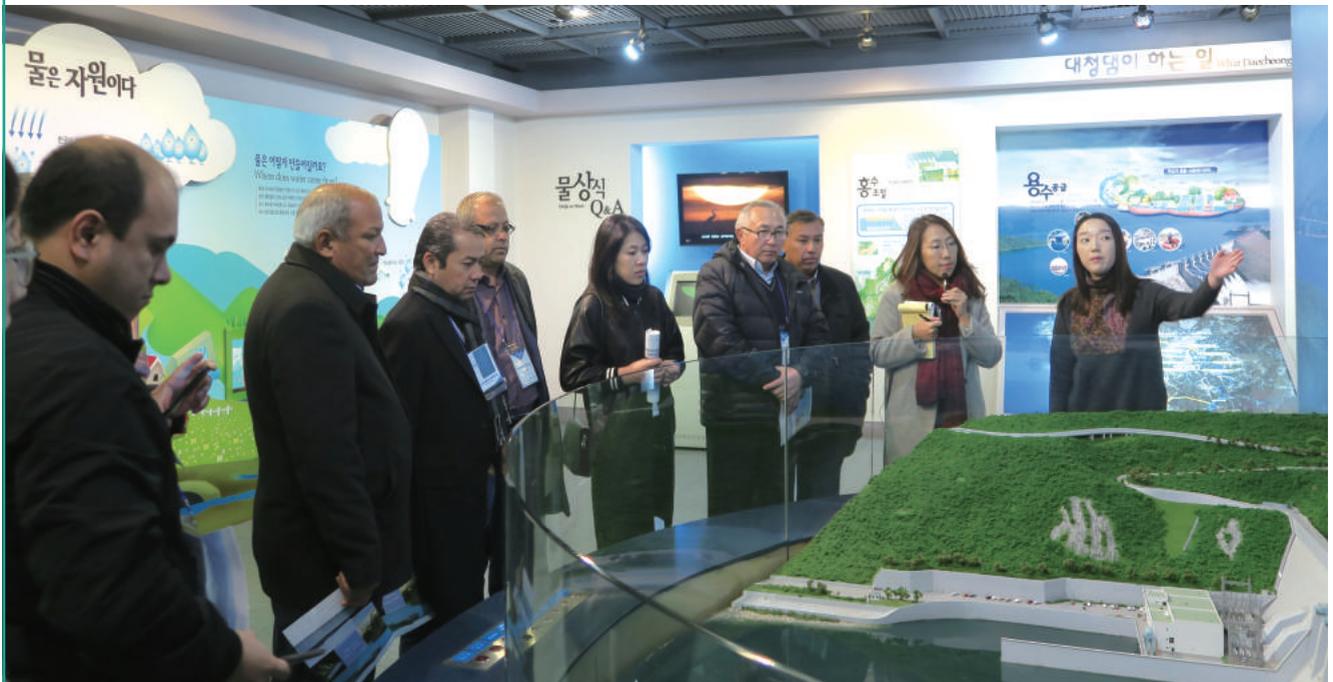
Water has an inextricable relationship with food and culture. Securing water is essential for increasing agricultural yield and energy efficiency.

## Case & Field Oriented Education & Training — UNESCO i-WSSM



**i-WSSM** assists to improve their water security by sharing Korea's development experience and technologies of water management through various education and training programmes.

**i-WSSM** designs and manages programmes based on participating countries' needs and situation, and conducts continuous follow-up activities to support individual capacity building as well as institutional capacity building.





## 01 On-site Field Diagnosis



i-WSSM checks the current problems and seeks solutions by dispatching water experts to the countries. i-WSSM contributes to solving the problems and implementing the solutions in association with other projects such as ODA.



## 02 Customized Capacity Building



i-WSSM operates capacity building programmes consisted of lectures on Korea's experience, study visits and discussion on each countries' issues. Especially, the participants can strengthen their international cooperation by joining various water related-events.



## 03 Master's & Doctorate Programme



i-WSSM fosters key human resources through long-term master's and doctorate degree programme. Students can learn developed countries' experience and specialized knowledge, and improve their policy making capacity through a systemic curriculum.



## Globally Networked Cooperation Platform

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To provide reliable and empirical information on water to developing countries, i-WSSM operates online and offline information platform and conduct forums for water experts from all over the world.

**i-WSSM** also strengthen an international water security network to communicate the latest water security information and contribute to sustainable water security development in developing countries.



## 01 Global Cooperation & Partnership Enhancement

i-WSSM leads the international water security network through cooperation activities such as participating in international conferences and forums, and working with water-related organizations. The aim is to strengthen i-WSSM-based water security cooperation with our partners by holding the Future Water Security Forum every year.



## 02 Information Sharing Platform Establishment

i-WSSM continuously secures up-to-date water information of developing countries and provides the information and analysis services such as monitoring and forecasting the status of water security in the countries. Also, i-WSSM supports a water expert's community in order to invigorate the community more active so that the experts share lots of information in the community.



## 03 Smart Institutional Management

i-WSSM strengthens the capacity of employees and increasing work efficiency by fostering the employees' talent through long-term education and training plan. Also, i-WSSM secures operational transparency and efficiency through improving the centre's regulations.

## 2018 Major Programmes

### Research

- Publishing Water Security-related Annual Report
- International Joint Study on Water Security & Sustainable Growth
- International Joint Study on Water-Energy-Food Nexus



### Education

- Smart Water Management in Response to Climate Change with IDB
- Programme for the Improvement of Water Security in Asia
- USACE Joint Programme



### Global Cooperation

- Integrated information System for Water Security
- Future Water Security Forum
- Workshop on Smart Water Management



Homepage : [www.unesco-iwssm.org](http://www.unesco-iwssm.org)





ENGLISH  
KOREAN

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**2018**  
SEASON'S GREETINGS  
With profound appreciations for your cooperation and support,  
we wish you a joyous Holiday Season and a Happy New Year.  
We look forward to seeing you in 2018.  
UNESCO i-WSSM

**한일 국제연구협력센터 - 유네스코 국제수자원연구소 MOU 체결**  
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Singing MOU between UNESCO...  
Academic Events  
2018.02.06

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**Unesco i-WSSM Centre**

[UNESCO i-WSSM RECRUIT]

- 재정직무 : 교육출판팀장
- 재용인원 : 1명(일반직)
- 근무형태 : 통상근무, 주5일, 전일제(1일 8시간 근무)... 더보기

iwssm 유네스코



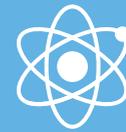
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Strategic water security investment contributes  
at least \$500 billion to global economic growth every year.

(OECD Secretary-General, Angel Gurría, SIMI 2016)



In an increasingly globalized world,  
no country or region can meet the challenges alone.

(President of the UN General Assembly, Miroslav Lajčák, World Entrepreneurs Investment Forum 2017)



## UNESCO i-WSSM

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