

EXTERNAL REVIEW OF THE INTERNATIONAL
CENTRE FOR WATER SECURITY AND
SUSTAINABLE MANAGEMENT (I-WSSM),
CATEGORY 2 CENTRE UNDER THE AUSPICES
OF UNESCO DAEJEON, THE REPUBLIC OF
KOREA
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1 EXECUTIVE SUMMARY

1.1 INTRODUCTION

The International Centre for Water Security and Sustainable Management (i-WSSM) in Daejeon, the Republic of Korea, is one of UNESCO's 36 water-related Category 2 centres. The i-WSSM was approved as a centre under the auspices of UNESCO (category 2) at the 37th UNESCO General Conference in 2013, and established through an Agreement signed on 7 December 2016 and entered into force on 16 December 2016.

Article 12 of the Agreement provides for the review of the Centre at any time by UNESCO, which includes an evaluation of the degree to which the Centre has achieved the objectives of its establishment as stated in the Agreement. The current i-WSSM Agreement expires on 15 December 2022. Consequently, a Review is required in order for the parties to the Agreement – in particular UNESCO – to determine whether the Agreement should be renewed or permitted to expire at this date. The Government of the Republic of Korea expressed its willingness to submit i-WSSM to an evaluation, in order to renew the Agreement for the continuation of its activities.

A primary purpose of the Evaluation is to determine if the International Centre for Water Security and Sustainable Management shall retain its status as a UNESCO Category 2 Centre, in terms of Document 37 C/18 Part I and its annex, as adopted by 37 C/Resolution 29 of the UNESCO General Conference (November 2013). The findings of this review, along with a draft renewal Agreement negotiated between UNESCO, the Government of the Republic of Korea, will be included in the Director-General's report to the Executive Board with recommendations as to whether the designation as a Category 2 Centre under the auspices of UNESCO should be maintained, terminated or not renewed.

A further purpose of the Evaluation is to determine and communicate the contribution of the Centre to the Strategic Programme Objectives of UNESCO, and to advise on possible improvements to the functioning of the Centre in order to strengthen the achievement of the Objectives of the Agreement, in the event that the Agreement is renewed.

The Evaluation was undertaken during the period 12 July 2021 to 17 September 2021 and was supported and facilitated by i-WSSM and UNESCO.

1.2 FINDINGS OF THE EVALUATION

It is clear that the initial stages of the establishment of the Centre as an independent UNESCO Category 2 Centre hosted by the Government of the Republic of Korea was more complex than originally envisaged. This required significant time and effort. Over the ensuing 5 years after the initial establishment i-WSSM developed and implemented a programme of activities to achieve the objectives and functions provided for in the founding Agreement and substantially complied with all the requirements of the Agreement. During this time the Government of the Republic of Korea has met the requirements of the hosting institution.

The record of results indicates that a wide range of activities and outputs have been achieved towards meeting the agreed objectives of the i-WSSM and contributing towards the achievement of UNESCO's strategic objectives. The evaluation finds that all those interviewed who have been

involved in managing the i-WSSM and in delivering the outputs on a day-to-day basis through the projects and programmes of the Centre have been committed to the objectives of the i-WSSM and have delivered outputs of the highest professional standards.

In order to continue with this good work, it is strongly recommended that the following matters are addressed in order to further enhance to work of the i-WSSM and to ensure that it achieves further international standing as a Centre:

- The Centre should enhance focus on capacity-building programs in the areas of water and gender in more cooperation with Africa given that global priorities of UNESCO's Medium-Term Strategy for 2014-2021 are peace and gender equality under the overarching objectives of Africa.
- The Centre is mainly delivering projects and initiatives linked to the SDGs 6. The Centre should be working on water security in urban area to link with the SDG 11.
- The Centre needs to pay attention to not just the quantity of water resources available but also water quality. Concerning the SDGs, research should be conducted on themes such as integrated water management and the water-food-energy nexus, and training on the importance of water management should be provided not just to working-level officials but also to policymakers.
- Groundwater and irrigation are top priorities in developing countries, and therefore cooperation with the related agencies should be part of Centre's future efforts.
- The importance of Climate Change, and the relevance of climate and water security issues needs to be considered. Particularly, the small islands and developing nations in the Pacific Ocean are vulnerable to climate change and water scarcity, so i-WSSM need to expand its target areas and countries regarding these issues.
- i-WSSM should capitalize on its comparative strengths and advantages to deliver on selected areas of 9th Phase of the IHP in future. The priority assigned to water and gender in i-WSSM's profile and activities represent an encouraging development that could be further elaborated as the Centre has the potential to make a significant difference in the implementation of the 9th Phase of the IHP.
- The Centre should be more actively engaged with UNESCO Category 2 Centres in Korea and around the world and come up with quality cooperation projects. The Centre should enhance its participation in international cooperation programs initiated by the Korean Government to diversify its capacity building programs for developing countries.
- The Centre needs more effective strategies to clearly mark its position in the global arena and command greater leadership in the water security and sustainable management domain.
- External factors such as COVID-19 and consequently changing culture could drive the Centre to using a hybrid approach of combining online and offline activities in the space of capacity-building programs. The direction of the Centre's projects, particularly the Water Security Forum, should thus be carefully defined to achieve the desired outcome.

1.3 OVERALL ASSESSMENT

The overall finding of this evaluation of the Centre as an independent Category 2 Centre under the auspices of UNESCO for the period December 2016 to 31 December 2020 (activities of the Centre considered for evaluation) is that the Centre is well established and has delivered activities and outputs consistent with the objectives and functions of its founding Agreement which have contributed towards the achievement of UNESCO's strategic programme objectives and intersectoral programme priorities. It is for these reasons that the Evaluator recommends that the status of the i-WSSM as a Category 2 Centre be renewed for a further eight-year period.

1.4 RECOMMENDATIONS

It is the recommendation of this evaluation that the International Centre for Water Security and Sustainable Management (i-WSSM) should maintain the status of a Category 2 Centre under the auspices of UNESCO and that the Agreement for the continued operation of Centre should be renewed for a further eight-year period considering the center's great contribution to the UNESCO strategies and global priorities.

This Evaluation concludes that the i-WSSM, with the support of the Government of the Republic of Korea, should continue the good work which it has done over the past five years as recorded in the reporting on activities and outputs contained in Section 5.3.2. of this evaluation. A great deal of this work is of necessity for the global water security.

In addition to continuing with this good work it is strongly recommended that the matters identified in the Findings and Recommendations of this evaluation (summarized in Section 6) be addressed in order to further enhance to work of the i-WSSM and to ensure that it achieves further international standing as a Centre.

The International Centre for Water Security and Sustainable Management (i-WSSM) in Daejeon, the Republic of Korea, is one of UNESCO's 36 water-related Category 2 centres. The i-WSSM was approved as a centre under the auspices of UNESCO (category 2) at the 37th UNESCO General Conference in 2013, and established through an Agreement signed on 7 December 2016 and entered into force on 16 December 2016.

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A primary purpose of the Evaluation is to determine if the International Centre for Water Security and Sustainable Management shall retain its status as a UNESCO Category 2 Centre, in terms of Document 37 C/18 Part I and its annex, as adopted by 37 C/Resolution 29 of the UNESCO General Conference (November 2013). The findings of this review, along with a draft renewal Agreement negotiated between UNESCO, the Government of the Republic of Korea, will be included in the Director-General's report to the Executive Board with recommendations as to whether the designation as a Category 2 Centre under the auspices of UNESCO should be maintained, terminated or not renewed.

A further purpose of the Evaluation is to determine and communicate the contribution of the Centre to the Strategic Programme Objectives of UNESCO, and to advise on possible improvements to the functioning of the Centre in order to strengthen the achievement of the Objectives of the Agreement, in the event that the Agreement is renewed.

3 SCOPE OF THE EVALUATION

The Evaluation spans the period from the entering into force of the Agreement in December 2016 to the mid of 2021 – 5 years. The scope of the Evaluation is bounded by the Articles of Agreement which includes an assessment of the establishment of the Centre, the achievement of the stated functions and objectives of the Agreement, governance and financing. In order to assess the status of the i-WSSM as a Category 2 Centre of UNESCO, the scope includes an assessment of how the i-WSSM satisfies Category 2 Centre criteria established by UNESCO.

The Evaluation was undertaken during the period 12 July 2021 to 17 September 2021.

The Evaluation comprised two main components –

- Collation and review of available documentation; and
- Interviews with a range of stakeholders including parties to the Agreement, staff of the Centre and related institutions, and participants in i-WSSM activities.

The Evaluation was supported and facilitated by i-WSSM.

The evaluation was undertaken in collaboration with Dr Hans Thulstrup, Officer-in-Charge of UNESCO Jakarta Office and Mr Giuseppe Arduino, Chief of Eco-hydrology, Water Quality and Water Education Section (EQE) of UNESCO, Paris.

4 METHODOLOGY

4.1 OVERVIEW

The evaluation of the i-WSSM comprised two main elements – the collation and review of available documentation and conducting a number of interviews with various parties. Once all the information was gathered through these activities, a set of findings were compiled against which the overall evaluation of the Centre was made to determine whether to recommend that the i-WSSM Agreement should be renewed or not.

4.2 DOCUMENT REVIEW

4.2.1 ACCESS TO DOCUMENTS

The initial activity at the start of the evaluation was to collate relevant documentation in a single location. The i-WSSM staff provided documentation mainly via emails. Documents included:

- Governing Board documentation and meeting minutes
- Agreements and legal documents
- Annual progress and activity reports
- Annual financial reports
- Detailed information of:
 - i-WSSM human resource
 - projects and donors
 - accounting, finance and legal compliance audit
 - stakeholders, beneficiaries, people trained and countries assisted
- Strategies and Workplans
- Publications

A list of documents reviewed is attached in Annex 1.

It must be noted that the documents provided for review as noted in this section do not include all of the documents produced through the i-WSSM project. Some outputs, such as the publication of chapters in books, were not available for review but are listed in the Results as outputs.

4.2.2 GOVERNING BOARD DOCUMENTATION AND MEETING MINUTES

The agendas and minutes of the five meetings of the Governing Board from June 2017 to December 2020 were provided together with accompanying working documents detailing:

- appointment of Governing Board members
- Governing Board operation and regulations
- details of Executive Committee and Centre's secretariate staff appoint
- activities and achievements
- project plan and the Budget of the Centre for each year
- settlement of accounts for each Fiscal Year

The minutes are clear and concise and indicate that they represent a true reflection of the deliberations of the Governing Board. The minutes further indicate that the functions of the Governing Board, as provided for in the i-WSSM Agreement, were largely fulfilled.

The overall strategy of the i-WSSM was agreed by the Governing Board at its first meeting (June 2017). The meeting minutes and documents are provided to manifest the role of the Board related to the following activities during the last 4 years period (2017-2021):

- appointing Governing Board members, auditor, and Executive Committee members
- approving the Centre's medium- to long-term plans
- approving the Centre's annual work plans and budgets
- establishing and amending the Centre's regulations (constitution, rules of procedure of the Governing Board, rules of procedure of the Executive Committee, and so on).
- recommending the activities and projects aligning with the UNESCO and regional priorities

4.2.3 AGREEMENTS AND LEGAL DOCUMENTS

The primary legal documents provided to the evaluation and reviewed were:

- the i-WSSM Agreement for the establishment of Category 2 Centre between UNESCO and the Korean Government, signed on 7 December 2016. Assessment of compliance with the Agreement is provided in Section 5.1.
- The Constitutive Act of the Centre that was approved by MOLIT on 13 April 2017, and came into effect since 2 May 2017.

4.2.4 BUDGET MATTERS

Budget of the Centre for the years 2017-2021 was provided and summary budgets were included in the working documents presented to the Governing Board each year. These indicated the sources of funds and their proposed use. The Centre's budget is largely divided into the regular budget and the special budget, wherein the former is provided from the Korean Government on an annual basis, in accordance with the Agreement. The special budget is appropriated irregularly on a project-by-project basis from multilateral partner organizations for funding collaborative projects and from the central Government of the Republic of Korea for official development assistance.

The scale of the Centre's regular budget has recently been around KRW 1 billion (USD 0.9 million).

The regular budget, which is delivered for the Centre's programmes and activities, is deliberated and determined by the Governing Board in each year, based on prior consultation with UNESCO. On the other hand, the extra budget is irregular in scale and determined at the beginning of each year, following the deliberation and resolution of a documented board meeting, based on prior consultation with UNESCO. The Centre's estimated budget for 2022 is about 1.4 billion won, in line with the strong willingness of the Ministry of Environment to support the Centre's further expansion and development in terms of the scale of budget and operational areas.

4.2.5 STRATEGIES AND WORKPLANS

Mid to long term vision and strategies for i-WSSM were included in the annual activity reports. Workplans were developed for presentation and discussion at the annual Governing Board meetings. The Workplans varied in format and detail from year to year. The work plans in the working documents prepared for the annual Governing Board meetings were pretty high level and did not contain details.

The strategies contributed to:

- 1) improved its status by establishing an efficient and effective personnel and organizational structure and laying the foundation for strengthening the organization's competitiveness through organizational innovation; and
- 2) established a cooperative system for building water security infrastructure with businesses, research institutes, and universities in Korea; and 3) laid the foundation for sharing its major accomplishments domestically and internationally through the establishment of a platform for cooperation in water-related organization.

4.2.6 ACTIVITY AND RESULTS REPORTS

Documents were provided related to activity and results reporting. These represent a variety of different types and formats of documents giving summarized information on activities and results achieved in the i-WSSM Centre from 2017-2020. The results reports included an 'Annual Report of i-WSSM (2017-2020)' and a report on 'UNESCO's Water-related Centres on activities for the period June 2018 – April 2020'. The working documents prepared for the annual Governing Board meetings also include information on activities, meetings, and training events.

4.2.7 PUBLICATIONS

A list of publications was provided to the review. All the publications are noted in the Summary of Activities and Outputs in Section 5.3.2. List of Centre's key publications is attached in Annex 2.

4.3 INTERVIEWS

A variety of interviews were held with relevant UNESCO staff (SC/HYD), i-WSSM staff and other key stakeholders such as Government representatives, academics and professionals who have been involved in activities conducted by i-WSSM that include Ministry of Environment Korea, K-water, UNESCO C2C ICHCAP and Incheon University. The interviews provided a spread of opinion from different perspectives. Interviews were conducted either by online video conferencing by emails. The list of persons interviewed, and the issues raised and topics discussed were guided by a set of prepared questions which are attached in Annex 3.

5 EVALUATION FINDINGS

5.1 INTRODUCTION

This section presents the result of the evaluation and is structured around the main objectives and functions of the International Centre for Water Security and Sustainable Management (i-WSSM). Furthermore, it provides key findings based on the discussions with the staff employed and affiliated to the Centre. In addition, it provides recommendations on how the Centre could enhance its performance and its alignment and contribution to UNESCO's IHP priority areas. The findings of the evaluation as set out in the following sections are based on the evidence provided during the course of the evaluation. The findings relate to:

- Alignment of Centre activities with the Agreement signed with UNESCO;
- A summary of activities and outputs during the period under evaluation;
- Funding and resource use;
- Human resources;
- Governance; and
- Stakeholder perspectives.

5.2 ALIGNMENT OF CENTRE ACTIVITIES WITH THE AGREEMENT SIGNED WITH UNESCO

5.2.1 INTRODUCTION

The Agreement providing for the establishment and functioning of the i-WSSM is between UNESCO, and the Korean Government was signed on 7 December 2016. The Agreement entered into force on 16 December 2016 and will expire on 15 December 2022. The Agreement provides the legal basis for the UNESCO Category 2 status of the i-WSSM and it contains the provisions for how the i-WSSM is to be established, its legal status, the functions and objectives of the Centre, governance, financing, evaluation and continuance.

The assessment of the extent to which the Agreement has been complied with is therefore a key element of the evaluation of the i-WSSM.

5.2.2 COMPLIANCE

Table 1 presents the text of the Agreement for ease of reference, together with brief notes on the degree of compliance achieved with each article during the life to date of the i-WSSM.

Table 1: Assessment of Compliance with Agreement

Agreement Text	Compliance / Comments
Article 1- Definitions	
Article 2 - Establishment	

Agreement Text	Compliance / Comments
1. The Government of the Republic of Korea agrees to take, in the course of 2016, the measures that may be required to set-up the Centre under the auspices of UNESCO, as provided for under this Agreement.	Completed
Article 3 - Purpose of the Agreement	
The purpose of this Agreement is to define the terms and conditions governing the cooperation between the Korean Government and UNESCO regarding the establishment of the Centre as a category 2 centre under the auspices of UNESCO, and also the rights and obligations stemming therefrom for the Parties.	Achieved
Article 4 - Legal Capacity	
1. The Centre shall be independent of UNESCO.	Achieved
2. The Korean Government shall ensure that the Centre enjoys, in the Republic of Korea, the functional autonomy necessary for the execution of its activities and the legal capacity to: <ul style="list-style-type: none"> a. contract; b. institute legal proceedings; and c. acquire and dispose of movable and immovable property. 	Centre duly established under Korean law. Registration #Civil Act, Article 32
Article 5 - Constitutive Act	
1. The Korean Government shall ensure that the Constitutive Act of the Centre includes provisions describing precisely: <ul style="list-style-type: none"> a. the legal status granted to the Centre, within the national legal system, the legal capacity necessary to exercise its functions and to receive funds, obtain payments for services rendered, and acquire all means necessary for its functioning; and, b. a governing structure for the Centre allowing UNESCO representation within its governing board, in accordance with the provisions of Article 7 hereunder. 	Incorporated in the Constituting By laws adopted in April 2017
Article 6 - Functions/Objectives	
1. The Korean Government shall ensure that the functions/objectives of the Centre shall be to: <ul style="list-style-type: none"> a. build an integrated and problem-solving research system to achieve sustainable water resources management, related in particular to addressing challenges faced by developing countries; b. operate case-/field/oriented education and training programs based on the needs of participating countries; and c. develop a globally networked hub for sharing water resources information, thereby enhancing global scientific and technological knowledge on water resources. 	Complied with – Article 6.1. a & b remain the objectives and functions of the Centre.
2. The activities to be undertaken by the Centre include technology development and transfer, dissemination of knowledge, strengthening partnerships and capacity building in the water resources sector in the following areas: <ul style="list-style-type: none"> a. Assistance to developing countries in achieving sustainable development, including the implementation of water-related internationally-agreed agenda and national commitments such as the 2030 Agenda for Sustainable Development; 	Activities are described fully in Section 5.3 of this evaluation report.

Agreement Text	Compliance / Comments
<ul style="list-style-type: none"> b. Development of multidisciplinary research and integrated approaches toward enhancing water security; c. International cooperation programmes on water resources conducted by the Government; d. Operation and management of water resources; e. Hydropower energy and the operation and management of related infrastructure; f. Assistance to developing countries in their development of water industries; g. Development of case studies and best practice guidelines to foster education, training, and capacity building on sustainable water resources management. 	
Article 7 - Governing Board	
<p>1. The Korean Government shall ensure that the Centre is guided and overseen by a Governing Board, which shall be renewed every three (3) years and of which the total number of members do not exceed 10 including :</p> <ul style="list-style-type: none"> a. 3 representatives of the Government of the Republic of Korea in charge of policies related to water resources management and international cooperation relevant to water resources; b. a representative of K-water; c. the director of the Centre or his/her substitute (as a non-voting member); d. 2 representatives of relevant research institutes and universities; e. up to 2 representatives of Member States of UNESCO, which have notified their intent to be a member of the Centre, in accordance with the stipulations of paragraph 2 of Article 10 and have expressed interest in being represented on the Board; and f. a representative of the Director-General of UNESCO 	Achieved.
<p>2. The Governing Board shall:</p> <ul style="list-style-type: none"> a. approve the medium and long-term programmes of the Centre; b. approve the annual work plan of the Centre, including the staffing table; c. examine the annual reports submitted by the Director of the Centre, including a biennial self-assessment report of the Centre's contribution to UNESCO's programme objectives; d. examine the periodic independent audit reports of the financial statements of the Institute/Centre and monitor the provision of such accounting records necessary for the preparation of financial statements; e. adopt the rules and regulations, as well as determine the financial, administrative and personnel management procedures for the Centre, in accordance with the laws of the Republic of Korea; f. decide on the participation of regional interGovernmental organizations and international organizations in the work of the Centre. 	Achieved and demonstrated via meeting minutes and working documents.
<p>3. The Governing Board shall meet in ordinary session at regular intervals, at least once every calendar year; it shall meet in extraordinary session if convened by its Chairperson, either on his or her own initiative or at the request of the UNESCO Director-General or of a majority of its members of the Governing Board.</p>	The Governing Board held annual ordinary meetings.
<p>4. The Governing Board shall adopt its own rules of procedure. For its first meeting the procedure shall be established by the parties.</p>	Completed.

Agreement Text	Compliance / Comments
Article 8 - UNESCO's Contribution	
<p>1. UNESCO may provide assistance, as needed, in the form of technical assistance for the programme activities of the Centre, in accordance with the strategic goals and objectives of UNESCO by:</p> <ol style="list-style-type: none"> a. providing the assistance of its experts in the specialized fields of the Centre; b. engaging in temporary staff exchanges, whereby the staff concerned will remain on the payroll of the dispatching organizations; (and/or); c. seconding members of its staff temporarily, as may be decided by the Director- General on an exceptional basis and if justified by the implementation of a joint activity/project within a strategic programme priority area; and d. providing technical support in particular to achieve the overall mission of UNESCO's water- related institutes and centres. 	<p>Achieved - Centre collaborates with UNESCO regional offices in operating programmes within the framework of UNESCO's strategies. For example, the Centre undertook a joint mission for analysis of groundwater in Timor-Leste, in collaboration with the UNESCO regional office in Jakarta, and also collaborated with UNESCO HQs for the capacity-building programme regarding groundwater monitoring systems for Kenya. Also, The Centre annually co-publishes the Global Water Security Issues with HQs since 2018, and the Executive Summary of the World Water Development Report since 2017.</p>
<p>2. In the cases listed in paragraph 1 of this Article, such assistance shall not be undertaken except within the provisions of UNESCO's programme and budget, and UNESCO shall provide Member States with accounts relating to the use of its staff and associated costs.</p>	<p>Complied with.</p>
Article 9 - Contribution by the Government	
<ol style="list-style-type: none"> 1. The Government shall, subject to its relevant and appropriate laws and regulations, and following the annual budget appropriation of the Republic of Korea, provide all the resources, either financial or in kind, needed for the administration and proper functioning of the Centre in the Republic of Korea. 2. The competent authorities of the Government, which shall be responsible for the contributions provided in paragraph 1 of this Article, are the Ministry of Land, Infrastructure and Transport (MOLIT) and K-water. 3. The Government shall undertake to: <ol style="list-style-type: none"> a. provide the Centre with appropriate office space, equipment and facilities; b. entirely assume the maintenance of the premises and cover the cost of communications and utilities; c. organize and cover expenses of holding sessions of the Governing 	<p>For the sustainable operation of the Centre, legal provisions for its establishment and comprehensive support were written into Korea's Framework Act on Water Management in 2021, based on which the Korean Government has authorized the Ministry of Environment to provide</p>

Agreement Text	Compliance / Comments
<p>Board;</p> <p>d. make available to the Centre the administrative staff necessary for its functions, which shall include the implementation of research, studies, training and publication activities, complementing the contributions from other sources; and</p> <p>e. finance the activities of the Centre.</p>	<p>stable fiscal support annually.</p>
<p>Article 10 - Participation</p>	
<p>1. The Centre shall encourage the participation of Member States and Associate Members of UNESCO which, by their common interest in the objectives of the Centre, desire to cooperate with the Centre.</p>	<p>Achieved through programme</p>
<p>2. Member States and Associate Members of UNESCO wishing to participate in the Centre's activities, as provided for under this Agreement, shall send to the Centre notification to this effect. The Director shall inform the Parties to the Agreement and other Member States of the receipt of such notifications.</p>	<p>N/A</p>
<p>Article 11 - Responsibility</p>	
<p>As the Centre is legally separate from UNESCO, the latter shall not be legally responsible for the acts or omissions of the Centre, and shall also not be subject to any legal process, and/or bear no liabilities of any kind, be they financial or otherwise, with the exception of the provisions expressly laid down in this Agreement.</p>	<p>Complied with</p>
<p>Article 12- Evaluation</p>	
<p>1. UNESCO may, at any time, carry out an evaluation of the activities of the Centre in order to ascertain whether:</p> <p>a. the Institute/Centre makes a significant contribution to UNESCO's strategic programme objectives and expected results, aligned with the four-year pro- grammatic period of the C/S document (Programme and Budget), including the two global priorities of the Organization and related sectoral or pro- gramme priorities and themes; and,</p> <p>b. whether the activities effectively pursued by the Centre are in conformity with those set out in this Agreement.</p>	<p>Undertaken in terms of the current evaluation</p>
<p>2. UNESCO shall, for the purpose of the review of this Agreement, conduct an evaluation of the contribution of the Centre to UNESCO strategic programme objectives, to be funded by Centre.</p>	<p>Undertaken in terms of the current evaluation</p>
<p>3. UNESCO undertakes to submit to the Government, at the earliest opportunity, a report on any evaluation conducted.</p>	<p>N/A</p>
<p>4. Following the results of an evaluation, any of the Contracting Parties shall have the option of requesting a revision of its contents or of denouncing the Agreement, as envisaged in Articles 16 and 17.</p>	<p>N/A</p>
<p>Article 13 - Use of UNESCO Name and Logo</p>	
<p>1. The Centre may mention its affiliation with UNESCO. It may, therefore, use after its title the mention "under the auspices of UNESCO".</p> <p>2. The Centre is authorized to use the UNESCO logo or a version thereof on its letter- headed paper and documents, including electronic documents and web pages, in accordance with the conditions established by the governing bodies of UNESCO.</p>	<p>Complied with</p>
<p>Article 14 - Entry into Force</p>	

Agreement Text	Compliance / Comments
This Agreement shall enter into force, following its signature by the Contracting Parties, and when they have informed each other in writing that all the formalities required to that effect by the domestic law of the Republic of Korea and by UNESCO's internal regulations, have been completed. The date of receipt of the last notification shall be deemed to be the date of entry into force of this Agreement.	16 December 2016
Article 15 - Duration	
This Agreement is concluded for a period of six (6) years as from its entry into force. The Agreement shall be renewed upon common agreement between the Parties once the Executive Board of UNESCO has made its comments based on the results of the renewal assessment provided by the Director-General of UNESCO.	The Government of the Republic of Korea expressed its willingness to submit i-WSSM to an evaluation, in order to renew the Agreement for the continuation of its activities. As a result, this evaluation is being conducted.
Article 16 - Denunciation	
<ol style="list-style-type: none"> 1. Each of the Contracting Parties shall be entitled to denounce this Agreement unilaterally. 2. The denunciation shall take effect on the 30th day following receipt of the notification sent by one of the contracting parties to the other. 	Not triggered
Article 17 - Revision	
This Agreement may be revised by written consent between the Government and UNESCO.	The Agreement was not revised during the term of the Agreement but will be revised for the 2 nd term if the Agreement is renewed.
Article 18 - Settlement of Disputes	
<ol style="list-style-type: none"> 1. Any dispute between UNESCO, the Government and SIWI concerning the interpretation or application of this Agreement, if not settled by negotiation or any other appropriate method agreed upon by the Parties, shall be submitted for final decision to an arbitration tribunal composed of a sole arbitrator chosen by the Parties to the dispute. Should the Parties not agree on the choice of the arbitrator, the appointment shall be made by the President of the International Court of Justice. 2. The Tribunal's decision shall be final. 	No disputes entered into during the course of the Agreement

5.2.3 COMMENTS ON AGREEMENT COMPLIANCE

The Agreement has been fully complied with as described in Table 1.

5.3.1 INTRODUCTION

In this section the activities and outputs of the i-WSSM are summarized in point form for each year from 2017-2020. This information has been sourced from the annual activity reports and working documents prepared for the Governing Board. The activities are summarized below for the purpose of evaluation and then reflected on in sub-section 5.3.3.

5.3.2 SUMMARY OF ACTIVITIES AND OUTPUTS

2017:

INTEGRATED & PROBLEM-SOLVING RESEARCH

- i-WSSM's Operational Strategy was established.
- AIWW Special Session on Asian Water Challenges: Securing Local, Regional and national Water Future: the Centre contributed to address water-related issues in the Asian countries
- Session on Water and Appropriate Technology for Achieving Sustainable Development Goals (SDGs): the Centre organized a session and gathered ideas on appropriate technologies to prepare for effective and empirical solutions to water issues in developing countries and established the direction of its strategy for supporting water security.

CASE & FIELD-ORIENTED EDUCATION AND TRAINING

- 1st Knowledge & Experience Sharing Programme of Korea Water Resources for Central and South American Officials & IDB. The programme established a cooperative network among IDB, LAC countries, and Korea.
- 1st Capacity Building Programme for the Improvement of Water Security in Asia. The programme provided an opportunity for participants to attend an international event where they shared their countries' relevant water issues, discussed policy directions, and established cooperation networks with diverse organizations
- 1st Workshop for Specialists on Smart Water Management from Central Asia. The workshop provided participants with an insight into ICT-based real-time monitoring and control system and an opportunity to form a cooperation network on smart water management between Korea and Central Asia.
- On-site Diagnosis and Problem-solving Programme in Cambodia. The conceptual plan report on "Establishment of strategies for Integrated Flood Management in Cambodia Mekong Delta Region" was completed, and developed into an ODA project.
- UNESCO Education on Water for Future Generations. The programme promoted UNESCO's activities, and importance of conserving water in daily lives. 150 fourth-grade students from 5 classrooms attended the sessions organized by the Centre in collaboration with K-water.

GLOBALLY NETWORKED COOPERATION PLATFORM

- International Seminar to Commemorate the Opening of i-WSSM. 130 people, including officials from UNESCO and UNESCO centres in the Asia- Pacific region, as well as academics and experts in related fields attended the seminar. The event contributed to promote international cooperation on water security and i-WSSM's development plan.
- Domestic UNESCO Category 2 Centres Cooperation Meeting. Attended by the Korean National Commission for UNESCO and the five centres: APCEIU, ICHCAP, ICM, i-WSSM and ICDH. The meeting turned out to have regular cooperation meetings to help promote cooperation meetings with related Government organizations and local Governments, and strengthen cooperation regarding the operation of the centres and joint projects among the centres.
- Cooperation with the International Water Resource Research Institute of Chungnam National University. MoU was signed and a joint cooperation system were established between the i-WSSM and the University to help achieve the sustainable development goals related to clean water, sanitation, and climate action.

PARTICIPATION IN WATER-RELATED EVENTS & COOPERATIVE ACTIVITIES

Events	Date	Venue
8 th International Conference on Appropriate Technology and Session on Water and Appropriate Technology for Achieving Sustainable Development Goals (SDGs)	1 Dec 2017	Seoul, Korea
Consultation with ICHARM on Master's and Doctorate Degree Programmes	22 Dec 2017	Tokyo, Japan
Domestic UNESCO Category 2 Centre Cooperation Meeting	7 April 2017	Daejeon, Korea
25 th IHP Regional Steering Committee (RSC) Meeting for Southeast Asia and the Pacific	13 Nov 2017	Manila, Philippines
UNESCO Conference on Water Security in the PSIDS	23-25 Oct 2017	Nadi, Fiji
Cooperation with the U.S. Army Corps of Engineers, ICIWaRM, and the World Bank	4-5 Dec 2017	Washington D.C., U.S.
Special Meeting with the Dean of the Institute of Disaster management and Reconstruction of Sichuan University	20 Sep 2017	Gyeongju, Korea
UNESCO Network Forum: Fulfilling the UN Sustainable Development Goals (SDGs)	30 Nov 2017	Seoul, Korea
Reception for International Organizations in Korea	14 Dec 2017	Seoul, Korea

2018:

INTEGRATED & PROBLEM-SOLVING RESEARCH

- Global Water Security Issues (GWSI). Prepared and published the GWSI Series 1 Water Security and the Sustainable Development Goals in collaboration with UNESCO HQs.
- World Water Development Report (WWDR) Korean Executive Summary. Published the Korean executive summary of WWDR 2018 and spread the global water-related issues to Korean

community. WWDR 2018 Korean Executive Summary, special session was held at 2019 Korea Water Resources Association Conference.

- Global Joint Research for Proposing Possible Policies on Securing water for Sustainable Growth. A research report was published on 'Global Joint Research for Proposing Possible Policies on Securing Water for Sustainable Growth'. This to support the Governments of partner countries in their efforts to enhance water security and achieve the SDGs.
- On-site Diagnosis and Problem-solving Programme in Cambodia. Field based analysis and guideline were established to help achieve water security in local community especially the water supply system.

CASE & FIELD-ORIENTED EDUCATION AND TRAINING

- 2nd Knowledge & Experience Sharing Programme of Korea Water Resources for central and South American Officials & IDB. 13 officials from IDB and 7 countries in LAC (Bolivia, Colombia, Costa Rica, Ecuador, Honduras, Mexico, Uruguay) attended the study visits to diverse facilities such as multi-purpose dams with floating solar power and several seminars with Korean experts and private sectors. This provided participants with opportunities to increase cooperation on water resources management between LAC and Korean organizations.
- Global Technical Exchange in Floodplain Modeling and shared Vision Planning. 23 public servants and graduate students studying at Korean universities, from 8 countries in Asia and Africa (Cambodia, Lao PDR, Mongolia, Myanmar, Pakistan, Thailand, Vietnam, Ethiopia) attended. The program, in collaboration with the US Army Corps of Engineers and K-water, shared the latest updates on technological development in flood control and water management, which participants were able to apply to their own work or study. Also, it strengthened cooperation among Korea, the United States of America, and participating countries.
- 2nd Capacity Building Programme for the Improvement of Water Security in Asia. 10 public servants from 6 countries in Asia (Bangladesh, Cambodia, Indonesia, Lao PDR, Myanmar, Vietnam) attended the lectures and study visits related to water leakage detection and management, and the monitoring system from water intake to tap water, as well as practical explorations of leakage detection and calibration of flowmeters. The program, in collaboration with K-water, enabled participants to find ways to introduce advanced water supply system management technologies into their respective countries.
- 2nd Workshop for Specialists on Smart Water Management from Central Asia. 12 Public servants from 4 countries in Central Asia (Kazakhstan, Kyrgyzstan, Tajikistan, Uzbekistan) attended the lectures and study visits to relevant facilities such as the agricultural water pumping and participation of a session on 'water resources management in Central Asia' during the 11th Korea-Central Asia Cooperation Forum. The workshop, in collaboration with Korea-Central Asia Cooperation Forum Secretariat and K-water, Korea Rural Community Corporation, promoted exchange and friendship between Korea and Central Asian countries on various water issues.
- World Bank-KGGTF Knowledge Exchange Programme. 10 personnel from the World Bank's Water GP LAC Unit, IFC (Argentina, Colombia, Honduras, Nicaragua, Peru) attended featured workshops, working-level meetings, study visits, and briefings from experts on various themes such as integrated water resources management (IWRM) policy, water policy and water charges, water and sewage management, revenue water ratio management, and environment and circular economy policies in Korea.
- Training Programme for Smart Water Grid Operators. 10 Nepalese local public servants and water engineers attended the lectures and practice sessions on test SWG-related ICT systems and simulation of water pipe networks, and study visits to water management facilities in Incheon city

in partnership with the Incheon National University, International Center for Urban Hydroinformatics Research & Innovation (ICUH). The programme enabled participants to learn about operation of water supply system within a Korean municipality and share information and concerns among different municipalities within Nepal to find better solutions.

GLOBALLY NETWORKED COOPERATION PLATFORM

- 8th World Water Forum. The Centre expanded global network via organizing sessions.
- Korea Water Resources Association Conference. The Centre organized a session with the theme of WWDR 2018 and distributed Korean executive summary.
- 12th International Symposium on Climate Change and UAV Application to Floods and Droughts in the Asia Region. The Centre with our partners organized a symposium on climate change and UAV Application to Floods and Droughts in the Asia Region. The event provided the opportunity for water experts to establish a new platform for cooperation on UAV technology.
- Global Joint Research for Proposing Possible Policies on Securing water for Sustainable Growth. The Centre developed water security framework and built a partnership with the Asia Development Bank Institute (ADB), the OECD, the Lee Kuan Yew Institute (LKYSI), the Australian Water Partnership (AWP), the Asian Institute of Technology (AIT), AWC, and K-water.
- Korea International Water Week 2018. The Centre organized awareness sessions related to SDG 6 in collaborating with UNESCO Jakarta Office, ME, Daegu Metropolitan Government, Gyeongbuk Provincial Government, K-water, Korea Water Forum. This helped the Centre to expand global network and the Centre successfully contributed to the raise awareness on water and gender issues.
- The 7th Africa Water Week. The Centre, in collaboration with UNESCO Division of Water Sciences, made a presentation and hold a discussion on smart water management technology and its contribution to the achievement of the SDGs, further opportunities generated by smart water management and practical measures with which businesses can allocate water management.
- 11th Korea-Central Asia cooperation Forum: Taking a Leap Forward Together. The Centre in collaboration with the Ministry of Foreign Affairs organized an international Session to identify specific measures of cooperation toward solving water problems and ensuring sustainable economic growth as well as infrastructure development. This was to encourage in-depth debate on the general range of matters regarding the management of water resources in Central Asia and the Aral Sea problem. Partners agreed to strengthen the role of the International Fund for Saving the Aral Sea (IFAS) and the partnership between Korea and Central Asia on execution of the 4th Action programme to Assist the Countries of the Aral Sea Basin (ASBP-4).
- Smart Water Grid International Conference (SWGIC) 2018: International Session on Urban Resilience and Smart Utility Network. The Centre organized the session consisted of four presentations on smart utility examples such as mega cities, low-impact development techniques, urban infrastructure, empirical research on smart cities, and achievement of the SDGs, and a panel discussion. This helped introduce a new perspective on the smart water grid technology to find sustainable solutions.
- Water Security Forum for the Future. The event encouraged participants to share their knowledge and information in reviewing the directions of i-WSSM programmes and the validity of its management practices, and also to provide advice on the general range of water security issues
- Water Resources Field Trip for Diplomats in Korea. 26 diplomats and working-level officials from Asian and European embassies legations in Korea and officials from the MoFA attended the field trip. The Centre promoted the advanced Korean water and energy management technologies as well as provided an opportunity for networking among participants.

- UNESCO i-WSSM Strategic Workshop. This was to discuss the intermediate and long-term directions of the Centre as well as to develop core projects in line with UNESCO strategies. The Centre expanded its perspectives for the long-term strategy and network with stakeholders particularly with UNESCO, IWRA, ICHARM.
- Integrated Global Networking Database. The database system was established to systematically manage and expand its global cooperation networks. This was to create a centralized database containing information about relevant experts and events so that users can easily access the database from the i-WSSM website.

PARTICIPATION IN WATER-RELATED EVENTS & COOPERATIVE ACTIVITIES

Events	Date	Venue
23rd Session of the InterGovernmental Council of the IHP	11-15 June 2018	Paris, France
High-Level International Conference on International Decade for Action “Water for Sustainable Development” 2018-2028	19-22 June 2018	Dushanbe, Tajikistan
Jeju Forum “Reengineering Peace for Asia”	27-28 June 2018	Jeju, Korea
Science to Enable and Empower Asia and the Pacific for SDGs (SEE-AP) Regional Strategic Coordination Meeting	30 July - 1 st August, 2018	Jakarta, Indonesia
2018 Asia-Pacific Regional Meeting of National Commissions for UNESCO	20-21 Sep 2018	Gyeongju, Korea
26 th UNESCO-IHP Regional Steering Committee Meeting for Asia & the Pacific	4 Nov 2018	Shanghai, China

2019:

INTEGRATED & PROBLEM-SOLVING RESEARCH

- Global Water Security Issues (GWSI). Published Case Studies in the GWSI Series 1 *Water Security and the Sustainable Development Goals*.
- World Water Development Report (WWDR) Korean Executive Summary. Contributed to UNESCO’s activity by publishing the Korean executive summary of WWDR 2019 and spread the global water-related issues to Korean community.
- Global Joint Research for Proposing Possible Policies on Securing Water for Sustainable Growth. Published a research report in collaboration with K-water.
- Education Programme Module. The education programmes modules by theme were developed for high-level officials and specialists of target countries.
- On-site Diagnosis and Problem-solving Programme for Groundwater Management in Dili, Timor-Leste. Visits to groundwater-related facilities such as groundwater monitoring wells were organized and several meetings with organizations were held such as the Timor-Leste National Commission for UNESCO and Asia Development Bank (ADB). This was to conduct an on-site diagnosis of the current groundwater-related challenges in Dili, in order to design and implement a specific and

tailored capacity building programme. Based on the findings and the networks established, the Centre successfully held an on-site workshop later during the year.

- On-site Diagnosis and Problem-solving Programme for Groundwater Management in Libreville, Gabon. This was to conduct an on-site diagnosis of water supply system in Gabon, in order to design and organize effective capacity building programme. Current issues and main challenges of Libreville were identified, such as aging facilities and lack of monitoring, for which the experts recommended two strategies for improving water network O&M efficiency: (1) conversion of the current intermittent water supply to continuous water supply, and (2) water loss control programme. A detailed work plan to achieve these strategies was also proposed.

CASE & FIELD-ORIENTED EDUCATION AND TRAINING

- 3rd Knowledge & Experience Sharing Programme of Korea Water Resources for Central and South American Officials & IDB. 9 public servants from IDB and 3 countries in LAC (Colombia, the Dominican Republic, Panama) attended the study visits and several seminars. The programme provided an opportunity for participants to suggest various cooperation projects to Korean counterparts. Furthermore, IDB agreed to actively support research and cooperation in the water and environment sectors between Korea and LAC.
- 3rd Workshop for Specialists on Smart Water Management from Central Asia. 9 public servants from 5 countries in Central Asia (Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan, Uzbekistan) attended the workshop. The workshop served as a good environment to share each country's water issues and experiences, and strengthen ties of cooperation between Korea and Central Asia.
- 3rd Capacity Building Programme for the Improvement of Water Security in Asia. 10 public servants from 6 countries in Asia (Bangladesh, Indonesia, Mongolia, Nepal, Timor-Leste, Vietnam) attended the lectures on groundwater policies, management, and monitoring, study visits to relevant facilities, as well as hands-on practice sessions. The programme served as an excellent opportunity to share Korea's practices for groundwater monitoring and data collection using ICT, as well as its policies and regulations for sustainable groundwater management and use.
- UNESCO Workshop on Groundwater Management Issues and Solutions in Timor-Leste. 43 participants from Government organizations, research institutes, universities, and international organizations attended the workshop. The workshop was a successful first step for knowledge sharing and capacity building. A follow-up long-term project designed to support the sustainable management of groundwater in Timor-Leste was developed as a consequence of the workshop and on-site diagnosis.
- UNESCO-WWAP Workshop on Sex-Disaggregated Data Collection and Analysis in Asia and the Pacific. 12 public servants and researchers from 7 Asia-Pacific countries (Cambodia, Indonesia, Lao PDR, Myanmar, Thailand, Timor-Leste, Vietnam) attended the lectures. The workshop provided an insightful opportunity to learn about the importance of data-based solutions for increasing women's participation and empowerment for sustainable and responsible management of water.

GLOBALY NETWORKED COOPERATION PLATFORM

- Korea Water Resources Association Conference 2019. The Centre organized a special session with the theme of WWDR 2019 and distributed Korean executive summary.
- World Water Week in Stockholm 2019. The Centre organized a session that provided an opportunity for discussion to facilitate the deployment of smart technologies that give access to vulnerable groups and contribute to water-related SDGs.

- Korea International Water Week 2019. The Centre organized sessions on Improving Water Security for the Sustainable Development Goals and Revising Water ODA in the view of Sustainability.
- International Water Association DIPCON 2019. The Centre organized a session entitled “Achieving Water Security through Nature-based Solutions”. The Centre Shared various experiences and case studies on NbS and discussed the way forward to improve water security.
- UNESCO International Water Conference. 1,500 high-level politicians from 37 countries attended the conference. The Centre organized a side event to deliver a presentation on efforts to improve water security from Korean perspective and panel discussion.
- Water Security Forum for the Future. The Centre organized a forum focusing on sustainable local capacity building projects, with key considerations for water projects in developing countries through discussions. The forum contributed to build knowledge sharing platform to improve water security.
- MoU with the Korea Institute of Hydrological Survey. A MoU was signed and it is expected to contribute to mutual cooperation based on the expertise accumulated by the two organizations.
- Asia Water Council. The Centre joined the Board of Council of the Asia Water Council. Participating in AWC activities is expected to expand centre’s network for further mutual cooperation with AWC member countries to solve water-related issues in the region and tackle climate change based on common action.

PARTICIPATION IN WATER-RELATED EVENTS & COOPERATIVE ACTIVITIES

Events	Date	Venue
East and Southeast Asia meeting of National Commissions for UNESCO	28-30 Aug 2019	Jeonju, Korea
UNESCO Science to Enable and Empower Asia Pacific for SDGs 2	17-19 Sep 2019	Jakarta, Indonesia
The 26 th UNESCO IHP Regional Steering Committee Meeting for Asia and the Pacific	29 Oct - 1 Nov 2019	Nay Phi Taw, Myanmar
The 2 nd Meeting of Water for Human Settlements	16-18 Dec 2019	Paris, France
German-Kazakhstan University IWRM Master Programme Workshop	17-18 May 2019	Almaty, Kazakhstan
The 2 nd AIWW Stakeholder Consultation Meeting	11-13 Nov 2019	Jakarta, Indonesia
UNESCO Category 2 Centres Cooperation Meeting during the Jeju Forum	30 May 2019	Jeju, Korea
The 3 rd AWC General Assembly and 8-9 th Board of Council Meeting	13-17 March 2019	Makati City, Philippine
The 10 th AWC Board of Council Meeting	24 September 2019	Wuhan, China

2020:

INTEGRATED & PROBLEM-SOLVING RESEARCH

- Global Water Security Issues (GWSI). Arranged 3 webinars related to publication of GWSI Series 2.
- World Water Development Report (WWDR) Korean Executive Summary. Organized a special session at 2020 Korea Water Resources Association Conference.
- UNESCO & W-SMART Book Chapter on 'Smart Water Management 2020'. Published a book chapter titled "Smart Water Management Implementation Strategy in South Korea: Towards Sustainable Supplying of Tap Water and Improving the Trust".
- Consulting Report for Kenya (Nairobi) Groundwater Monitoring System. A guideline was established under the consultation with partner organizations, and it aims to build the Nairobi city's capacity to adopt its groundwater management system to mitigate the effects of climate change considering regional characteristic in terms of urban structure and heavily populated areas.
- 2020 Water Security Forum for the Future. Organized a forum that was attended by 168 participants to share knowledge and lessons learned from presentations and discussions made by water experts.
- Joint Research on Water-Energy-Environment Nexus for Urban Water System. Published a report related to international collaborative research for Water-Energy-Land Nexus.
- Educational Programme Module. The Centre developed and published education programmes modules: development of the water loss management module, and the hydrological survey module.

CASE & FIELD-ORIENTED EDUCATION AND TRAINING

- 4th Capacity Building Programme for the Improvement of Water Security.
 - UNESCO i-WSSM & K-water Summer Program on Water Management. 44 foreign students and public servants residing in Korea attended the lectures. The program provided students with an excellent opportunity to learn about hands-on skills such as water leakage detection, as well as to meet and strengthen their network with other foreign students residing in Korea.
 - UNESCO i-WSSM & K-water Fall Program on Water Management. 42 foreign students and public servants residing in Korea attended lectures including site visits to related facilities. The program enabled participants to learn about Korea's advanced water management technology through both theory and practice.
- UNESCO i-WSSM & K-water Special Program on Water Management.
 - K-water & UNESCO i-WSSM Capacity Building Program on Innovative Technology Application for Water Security. 20 foreign students, researchers, public servants and entrepreneurs residing in Korea attended lectures including site visits to water-related facilities and hands-on practice sessions with 3D printers. The program assisted young leaders of developing countries to develop their creative ideas into innovative solutions, in order to create a sturdy foundation for sustainable and long-term change.
 - K-water & UNESCO i-WSSM Capacity Building Program on Smart City Development in Indonesia. 14 Indonesian students, researchers, public servants residing in Korea attended lectures on smart city policies and plans, smart water management technology, water circulation city and various cases of Korea's smart cities, as well as study visits to smart cities such as Sejong and Busan City. The programme strengthened cooperation between Korea and Indonesia, as well as contributed to building new capacities for Indonesian experts on smart city development and management for their new capital city project.
- 2020 Webinar on Smart Water Management in Central Asia. 19 water sector experts from 5 countries in Central Asia (Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan, Uzbekistan) attended the webinar. The webinar shared Korea's experiences which can be applied to Central Asia and strengthened cooperation between Korea and the Central Asian region.
- e-Learning Platform. A webpage was developed and includes a keyword search engine (using hashtag) considering scalability for further content upload.

- Online Educational Material. Centre created online educational materials including Nature-based Solutions (NBS), groundwater, water loss control, flood forecasting, drought, water treatment, and others. This was to satisfy the increasing demand of online courses due to COVID-19 pandemic.
- Water and Gender Experts' Roundtable. The Centre organized a roundtable discussion - the first-ever event within Korea to discuss the specific issue of gender equality in the context of water, through a roundtable discussion between Korean experts. The roundtable effectively increased awareness on gender issues of the water sector, by facilitating open discussion between experts of multiple disciplines. The experts also acknowledged and emphasized the need for subsequent events of the kind.

GLOBALLY NETWORKED COOPERATION PLATFORM

- Workshop for International Cooperation Agencies in the Water Sector. The Centre organized a discussion on further cooperation strategies between participating organizations, and the centre delivered a presentation on 'Water ODA current status and forecast' including internal-external water ODA sector analysis and outlook of the World Bank water group.
- Korea Water Resources Association Convention 2020. The special session was organized with the theme of "Water and Climate Change" to promote WWDR 2020 for the Korean communities.
- 2020 International Smart Water Grid Conference. The Centre organized two international sessions at Smart Water Grid International Conference with the themes of "Water in Future Resilient Cities" and "NBS and River Management". Various expertise from academia and research institutes gave valuable talks and shared their experiences on Smart Water Management and NBS.
- IWRA Webinars. The centre has delivered presentations regarding each topics and shared experiences on Water reuse technologies & agricultural water reuse.
- UNESCO Water Family in Asia and the Pacific Response to the COVID-19 Pandemic Webinar, "The Answers are in the Water". The i-WSSM attended the webinar and talked about the Korea's experiences to respond to COVID-19 situation using cutting-edge technologies such as ICT, and Smart Water Management.
- Annual meeting of the UNESCO Category 2 Centres in Korea. The Centre attended the meeting where the participants discussed the establishment of an effective network to enhance cooperation among domestic Category 2 Centres and the expansion of participation are in line with UNESCO's strategies and projects.
- The UNESCO Chair on Sustainable Water Security Advisory Board. The Centre has become a part of the advisory board of the Chair to promote further cooperation and collaboration. It is expected to contribute to excavate global agendas on water sector via firm cooperation with the UNESCO Chair Programmes.
- The 3rd meeting of Water for Human Settlements. Attended the meeting where UNESCO IHP Chairs and Centres shared their recent activities and action plan. The Centre proposed Korean case studies for IHP 8th phase "Nairobi Matrix" and discussed future plans for implementing the IHP 9th phase.
- The Asia Water Council Meetings. Attended the 11th and 12th Board of Council meetings. This helped broaden network via active discussion on further strategies regarding water project, 2nd Asia International Water Week, and 9th World Water Forum.

PARTICIPATION IN WATER-RELATED EVENTS & COOPERATIVE ACTIVITIES

Events	Date	Venue
Annual meeting for UNESCO C2C in Korea	4 Feb 2020	Jeonju, Korea
Online Conference "Addressing Groundwater Resilience under Climate Change"	29-30 Oct 2020	Online

Events	Date	Venue
Webinar “COVID-19 Implication on Water Management in Megacities	23 July 2020	Online
Webinar “The answers are in the water: the UNESCO Water Family in Asia and the Pacific responds to the COVID-19 pandemic	28 July 2020	Online
Informal meeting of the members and observers of UNESCO’s IHP Council	7-8 Sept 2020	Online
Technical Webinar on Monitoring Strategies in Transboundary Aquifers: Goals, Methods and Tools the Case of the DRIN project	20 Oct 2020	Online
Information Meeting on IHP-IX	29 Oct 2020	Online

5.3.3 COMMENT ON ACTIVITIES AND OUTPUTS

It is clear from the listing of activities and outputs over the past 4 years that a substantial amount of work has been done towards performing the functions and achieving the objectives of i-WSSM as a UNESCO Category 2 Centre in terms of the Agreement. There can be no question that the i-WSSM is actively contributing to the arena of international water security and sustainable management in terms of research, knowledge development and dissemination, policy support and advisory services, and capacity building and training.

The review found that since its establishment in May 2017, the Centre has been conducting various activities to facilitate multilateral cooperation for water security among numerous partners in the world. The first three years comprised the early stage of the Centre’s establishment, a period that served as an opportunity to build the relevant groundwork by surveying the current status of global water issues and creating a water-related network. However, since 2020, the Centre has been expanding the scope of cooperation among the stakeholders involved in water security sector while also consolidating the Centre’s major programmes and activities. Moreover, the Centre has been accelerating the mutual cooperation with the Category 2 Centres in Korea and Africa, as well as UNESCO HQs.

The activities and outputs of the i-WSSM comprise a mixture of three principle elements – Integrated & converged research; Case-/field-oriented education; and Establishment of operating base and network. These are logical but difficult interfaces, in relation to day-to-day activities and funding. As a single programme, the logic of this arrangement is best served when there is integration and cross-fertilization between these elements. It is unclear from the activities and outputs to what extent the current research activities, policy and advisory work and the training and capacity building activities are inter-related and feed into each other. It is unclear the extent to which the research work of the researchers and the specific topics they are working on feed into the other work areas of the i-WSSM, and how the other activities of the i-WSSM feed back into the applied research agenda.

The above mentioned issues should not be regarded as detracting from the achievements of the i-WSSM, but as areas where further clarity is required or where the programme needs strengthening.

The Centre is actively and effectively delivering a variety of international, regional, and national programmes and activities related to water security and sustainable management through research, education and establishing information hub and global network for various stakeholders.

5.4 FUNDING AND RESOURCE USE

The Centre's budget is largely divided into the regular budget and the special budget, wherein the former is provided from the Korean Government on an annual basis, in accordance with the Agreement. The special budget is appropriated irregularly on a project-by-project basis from multilateral partner organizations for funding collaborative projects and from the central Government of the Republic of Korea for official development assistance.

The scale of the Centre's regular budget has recently been around KRW 1 billion (USD 0.9 million). The regular budget, which is delivered for the Centre's programmes and activities, is deliberated and determined by the Governing Board in each year, based on prior consultation with UNESCO. On the other hand, the extra budget is irregular in scale and determined at the beginning of each year, following the deliberation and resolution of a documented board meeting, based on prior consultation with UNESCO. Detailed budget information is attached in Annex 4.

This is evident from the annual reports and working documents prepared for the Governing Board that the reasonable financial resources are available for sustainable institutional capacity and viability of the Centre for the execution of its activities that conforms to the objective of the establishment of the Centre based on UNESCO project strategy and the Agreement. However, this budget will not be enough for the further expansion and development in terms of the scale of operational areas of the Centre in future.

5.5 HUMAN RESOURCES

This section deals with the staff and personnel who work directly for i-WSSM or in association with the Centre. The staff aims to execute resolutions decided by the Governing Board as well as the Executive Committee and to execute the Centre's operational matters. As of 30 December 2020, the Centre's consists of ten staff members, including the fulltime position of Director. There are three programme sections under the secretariat. A list of staff is attached in Annex 5.

This is evident from the information provided for the evaluation that the reasonable human resources are available for sustainable institutional capacity and viability of the Centre for the execution of its activities. However, this size of the staff will not be enough for the further expansion and development in terms of the scale of operational areas of the Centre in future.

5.6 GOVERNANCE

The Centre's decision-making process is divided into three stages; the Governing Board, the highest decision-making body; the Executive Committee, which deliberates and delivers resolutions on agendas delegated by the governing board; and the Secretariat, which implements the resolutions delivered by the Governing Board and the Executive Committee (Figure 1).

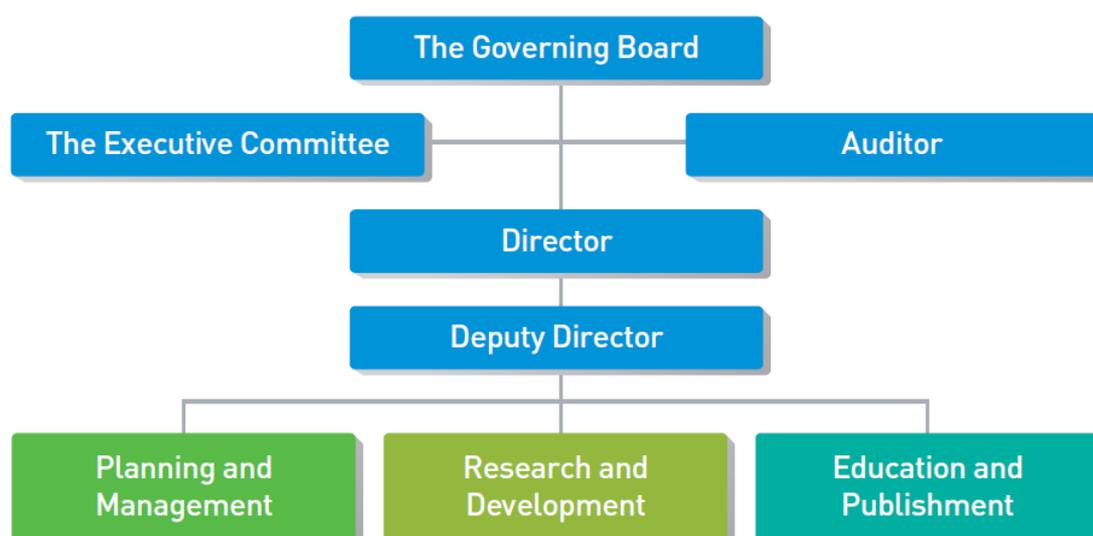


Figure 1: Governance structure of the Centre

5.6.1 GOVERNING BOARD

Based on Article 7 of the Agreement, the Governing Board is the highest decision-making body at the Centre and deliberates and delivers resolutions on the following matters:

- Appointing Governing Board members, auditor, and Executive Committee members
- Approving the Centre’s medium- to long-term plans
- Approving the Centre’s annual work plans and budgets
- Establishing and amending the Centre’s regulations (constitution, rules of procedure of the Governing Board, rules of procedure of the Executive Committee, and so on).

The Governing Board currently consists of 10 members. The membership of the board is also in accordance with Article 7 of the Agreement. So far, it has held 5 meetings since 2017 which is once every calendar year so meeting the requirements of the Agreement. According to the Agreement the Governing Board membership supposed to be renewed after every three years. In 2020, every governing board members’ term of office except members form the Government bodies (ME, MOFA, and MAFRA) have been extended for a subsequent term.

5.6.2 UNESCO STRATEGIC PROGRAMME OBJECTIVES

As a UNESCO Category 2 Centre, i-WSSM is required to contribute to the achievement of UNESCO's strategic program objectives and global priorities, as well as sectoral or intersectoral program priorities and themes. The Centre's contribution to UNESCO's programme objectives is captured and reported to UNESCO, as required in Article 7.2.c in the form of a report (C2C Annal activity report 2018 - 2020) and provided to the evaluation during the period under evaluation.

Notwithstanding compliance with the biennial reporting requirements, i-WSSM demonstrated interaction with other UNESCO centres and related activities that proven to be enhancing the contribution of the i-WSSM towards UNESCO's Strategic programme objectives.

5.7 STAKEHOLDER PERSPECTIVES

During the course of the evaluation a variety of stakeholders were interviewed as listed in Section 4.3. It was agreed that comments provided during the interviews would not be individually attributed but would be used in the compilation of the evaluation. The stakeholders came from three groups of people and institutions, each of which had a different association with the i-WSSM. These three groups were:

- Those who were involved in working for or managing the i-WSSM or its activities and projects;
- Those representing the governing partner institutions of the Government of the Republic of Korea and UNESCO; and
- Programme participants / beneficiaries.

Each of these groups understandably had different perspectives on the i-WSSM. The evaluation finds that all those interviewed who have been involved in managing the i-WSSM and in delivering the outputs on a day-to-day basis through the projects and programmes of the i-WSSM have been committed to the objectives of the i-WSSM and have delivered outputs of the highest professional standards. Most respondents supported the extension of the Agreement and had recommendations for changes which can be seen in the Annex 3.

An analysis of the interviews' response from all the stakeholders reflect that the activities Centre is carrying are fully in alignment with those set out in the agreement signed by the Government of the Republic of Korea and UNESCO. All the parties interviewed supported the continuation of the i-WSSM for a further period beyond 2022.

6 SUMMARY OF FINDINGS AND RECOMMENDATIONS

6.1 FORMAL RECOMMENDATION ON CATEGORY 2 STATUS

It is the recommendation of this evaluation that the International Centre for Water Security and Sustainable Management (i-WSSM) should maintain the status of a Category 2 Centre under the auspices of UNESCO and that the Agreement for the continued operation of the Centre should be renewed for a further eight-year period considering the Center's great contribution to the UNESCO strategies and global priorities.

6.2 OVERALL FINDING

The overall finding of this evaluation of the Centre as an independent Category 2 Centre under the auspices of UNESCO for the period December 2016 to 31 December 2020 (activities of the Centre considered for evaluation) is as follows that the Centre is well established and has delivered activities and outputs consistent with the objectives and functions of its founding Agreement which have contributed towards the achievement of UNESCO's strategic programme objectives and intersectoral programme priorities. It is for these reasons that the Evaluator recommends that the status of the i-WSSM as a Category 2 Centre be renewed for a further eight-year period.

6.3 ITEMISED FINDINGS AND RECOMMENDATIONS

6.3.1 INTRODUCTION

The flowing points represent the itemized findings of the evaluation. Whilst not detracting from the achievements made to date, a number of the findings point to areas where the programme could be strengthened, should it be agreed that the organization will maintain its Category 2 status under the auspices of UNESCO. Where appropriate, the findings noted below should be regarded as recommendations for suitable actions to be taken to strengthen the programme.

6.3.2 SUCCESSFUL ESTABLISHMENT AND INTIAL IMPLEMENTATION OF PROGRAMME

It is clear that the initial stages of the establishment of the Centre as an independent UNESCO Category 2 Centre hosted by the Government of the Republic of Korea was more complex than originally envisaged. This required significant time and effort. Over the ensuing 5 years after the initial establishment i-WSSM developed and implemented a programme of activities to achieve the objectives and functions provided for in the founding Agreement and substantially complied with all the requirements of the Agreement. During this time the Government of the Republic of Korea has met the requirements of the hosting institution.

The record of results indicates that a wide range of activities and outputs have been achieved towards meeting the agreed objectives of the i-WSSM and contributing towards the achievement of UNESCO's strategic objectives. The evaluation finds that all those interviewed who have been involved in managing the i-WSSM and in delivering the outputs on a day-to-day basis through the projects and programmes of the Centre have been committed to the objectives of the i-WSSM and have delivered outputs of the highest professional standards.

In order to continue with this good work, it is strongly recommended that the following matters are addressed in order to further enhance the work of the i-WSSM and to ensure that it achieves further international standing as a Centre:

- The Centre should enhance focus on capacity-building programs in the areas of water and gender in more cooperation with Africa given that global priorities of UNESCO's Medium-Term Strategy for 2014-2021 are peace and gender equality under the overarching objectives of Africa.
- The Centre is mainly delivering projects and initiatives linked to the SDGs 6. The Centre should be working on water security in urban area to link with the SDG 11.
- The Centre needs to pay attention to not just the quantity of water resources available but also water quality. Concerning the SDGs, research should be conducted on themes such as integrated water management and the water-food-energy nexus, and training on the importance of water management should be provided not just to working-level officials but also to policymakers.
- Groundwater and irrigation are top priorities in developing countries, and therefore cooperation with the related agencies should be part of Centre's future efforts.
- The importance of Climate Change, and the relevance of climate and water security issues needs to be considered. Particularly, the small islands and developing nations in the Pacific Ocean are vulnerable to climate change and water scarcity, so i-WSSM need to expand its target areas and countries regarding these issues.
- i-WSSM should capitalize on its comparative strengths and advantages to deliver on selected areas of 9th Phase of the IHP in future. The priority assigned to water and gender in i-WSSM's profile and activities represent an encouraging development that could be further elaborated as the Centre has the potential to make a significant difference in the implementation of the 9th Phase of the IHP.
- The Centre should be more actively engaged with UNESCO Category 2 Centres in Korea and around the world and come up with quality cooperation projects. The Centre should enhance its participation in international cooperation programs initiated by the Korean Government to diversify its capacity building programs for developing countries.
- The Centre needs more effective strategies to clearly mark its position in the global arena and command greater leadership in the water security and sustainable management domain.
- External factors such as COVID-19 and consequently changing culture could drive the Centre to using a hybrid approach of combining online and offline activities in the space of capacity-building programs. The direction of the Centre's projects, particularly the Water Security Forum, should thus be carefully defined to achieve the desired outcome.

6.3.3 UNESCO STRATEGIC PERSPECTIVES

Engagement with UNESCO Headquarters and other UNESCO Centres outside Korea has not been as intentional and thorough as it could have been. As a UNESCO Category 2 Centre, i-WSSM is required to contribute to the achievement of UNESCO's strategic program objectives and global priorities, as well as sectoral or intersectoral program priorities and themes through enhanced engagement with UNESCO Centres.

6.3.4 IDENTITY AND INDEPENDENCE

The i-WSSM exhibits an independent identity as a Category 2 Centre under the auspices of UNESCO. The Centre needs to improve its international profile to fully achieving its objectives. It is necessary to raise the status of the i-WSSM as an international organization on the global stage. One

way to do so would be publishing success stories independently in water security and water management areas. In particular, developing a unique project would help raise public awareness of the Centre and to make substantial contributions internationally.

6.3.5 STRATEGIC GOVERNANCE

The Centre has met the obligatory nature and quality of organizational arrangements, including management, governance and accountability mechanisms. However, the full potential of the Governing Board is not being realized at present. There is scope for greater strategic and intellectual engagement of Board members in the governing of the i-WSSM beyond the required fiduciary and administrative oversight functions.

There is also a need to for more integration among the Governing Board, Executive Committee, and the Centre staff through out of the session interactions.

6.3.6 RESOURCES

The Evaluation finds that the reasonable financial resources are available for sustainable institutional capacity and viability of the Centre for the execution of its activities that conforms to the objective of the establishment of the Centre based on UNESCO project strategy and the Agreement. However, this budget will not be enough for the further expansion and development in terms of the scale of operational areas of the Centre in future.

6.3.7 STAFFING AND LEADERSHIP

The evaluation confirms that the reasonable human resources are available for sustainable institutional capacity and viability of the Centre for the execution of its activities. However, the existing size of the staff will not be enough for the further expansion and development in terms of the scale of operational areas of the Centre in future.

7 CONCLUSION

This Evaluation concludes that the i-WSSM, with the support of the Government of the Republic of Korea, should continue the good work which it has done over the past four years as recorded in the reporting on activities and outputs contained in Section 5.3.2. of this evaluation. A great deal of this work is of necessity for the global water security.

In addition to continuing with this good work it is strongly recommended that the matters identified in the Findings and Recommendations of this evaluation (summarized in Section 6) be addressed in order to further enhance to work of the i-WSSM and to ensure that it achieves further international standing as a Centre.

8.1 ANNEX 1 - KEY DOCUMENTS CONSULTED

- A copy of the existing agreement between the Member State and UNESCO establishing the Centre
- (Annual) progress and activity reports
- Financial reports
- List of staff
- Key publications
- Details of donors and project partners
- Agendas, working documents and Minutes of the Governing Board meetings
- Available audit and evaluation reports
- Details of beneficiaries, people trained, and countries assisted.

8.2 ANNEX 2 - KEY PUBLICATIONS

8.2.1 LIST OF I-WSSM KEY PUBLICATIONS

2017	<ol style="list-style-type: none"> 1. World Water Development Report 2017 Korean Executive Summary “Wastewater: The Untapped Resource” - (Publisher) WWAP and i-WSSM - (Language) Korean 2. UNESCO i-WSSM Brochure 2017 - (Publisher) i-WSSM - (Language) English/Korean
2018	<ol style="list-style-type: none"> 1. World Water Development Report 2018 Korean Executive Summary “Nature-based Solutions for Water” - (Publisher) WWAP and i-WSSM - (Language) Korean 2. UNESCO i-WSSM Brochure 2017 - (Publisher) i-WSSM - (Language) English/Korean 3. UNESCO i-WSSM 2017 Annual Report - (Publisher) i-WSSM - (Language) English/Korean 4. Research Report: Global Joint Research for Proposing Possible Policies on Securing Water for Sustainable Growth (1st Year) - (Publisher) i-WSSM and K-water - (Language) English/Korean
2019	<ol style="list-style-type: none"> 1. World Water Development Report 2019 Korean Executive Summary “Leaving No One Behind” - (Publisher) WWAP and i-WSSM - (Language) Korean 2. Global Water Security Issues (GWSI) Series 1: Water Security and the Sustainable Development Goals - (Publisher) UNESCO & i-WSSM - (Language) English - (ISBN) 978-92-3-100323-3 3. Global Water Security Issues (GWSI) Case Studies: Water Security and the Sustainable Development Goals - (Publisher) i-WSSM - (Language) English - (ISBN) 978-89-98408-22-0 4. Research Report: Global Joint Research for Proposing Possible Policies on Securing Water for Sustainable Growth (2nd Year) - (Publisher) i-WSSM and K-water - (Language) English/Korean 5. Educational Programme Module on hydrological survey and water loss management - (Publisher) i-WSSM - (Language) English 6. UNESCO i-WSSM 2018 Annual Report - (Publisher) i-WSSM - (Language) English/Korean
2020	<ol style="list-style-type: none"> 1. World Water Development Report 2020 Korean Executive Summary “Water and Climate Change” - (Publisher) WWAP and i-WSSM - (Language) Korean 2. Global Water Security Issues (GWSI) Series 2: Water Reuse within a Circular Economy Context - (Publisher) UNESCO & i-WSSM

	<ul style="list-style-type: none"> - (Language) English - (ISBN) UNESCO 978-92-3-100413-1 <p>3. International collaborative research for Water-Energy-Land Nexus</p> <ul style="list-style-type: none"> - (Publisher) K-water & i-WSSM - (Language) English <p>4. UNESCO i-WSSM 2019 Annual Report</p> <ul style="list-style-type: none"> - (Publisher) i-WSSM - (Language) English/Korean
2021	<p>1. World Water Development Report 2021 Korean Executive Summary “Valuing Water”</p> <ul style="list-style-type: none"> - (Publisher) WWAP and i-WSSM - (Language) Korean <p>2. UNESCO i-WSSM 2020 Annual Report</p> <ul style="list-style-type: none"> - (Publisher) i-WSSM - (Language) English/Korean

8.2.2 LIST OF OTHER PUBLICATIONS CONTRIBUTED BY I-WSSM’S

2017	<p>1. Research on the Sustainable Development Goals of UNESCO Humanities, Society and Natural Sciences sector in Korea; Water Security Sector’s contribution to the SDGs (i-WSSM/Mr. Lim, Kwang-seop)</p> <ul style="list-style-type: none"> - (Publisher) Korean National Commission for UNESCO - (Language) Korean - (ISBN) Korean National Commission for UNESCO (Code SC 2017 RR 1)
2018	
2019	
2020	<p>1. Smart Water Management Implementation Strategy in South Korea: Towards Sustainable Supplying of Tap Water and Improving the Trust (i-WSSM/Dr. Eunher Shin, Mr. Seo Hyung Choi) (<i>in press</i>)</p> <ul style="list-style-type: none"> - (Publisher) UNESCO and W-SMART - (Language) English
2021	

8.3.1 INTERVIEWED PERSONS

- 1) Ms. Ji-yeon Kang (i-WSSM Governing Board Member)
Deputy Director, Water Industry and International Cooperation Division,
Ministry of Environment, the Government of the Republic of Korea

SUMMARY OF THE RESPONSE

Ms Kang stated that the Centre is implementing its projects under the guidance and coordination of the governing board. The Centre director reports project and budget plans every year at the annual governing board meeting and implements projects in a fair and transparent manner based on the decisions and resolutions of the governing board.

Ms Kang confirmed that the regular governing board meetings, ad-hoc sessions are organized when matters that require urgent deliberation and decision of the governing board arise. Progress of projects approved at a governing board meeting is reported on the following governing board meeting to ensure projects are monitored.

Though the Centre has only been operating for four years, it has successfully forged an effective cooperative relationship with various stakeholders from relevant organizations, including UNESCO Headquarters, and produced tangible outcomes.

Talking about her views related to the renewal of the Agreement, she stated that the i-WSSM is regarded as an invaluable asset for the Government, and its role and functions are expected to expand. As such, the Korean Government stated its official endorsement for the renewal of the agreement in March 2020. Recognizing the Centre's importance, the National Assembly also revised the Framework Act on Water Management to grant the Centre clear legal standing under domestic law, and the law went into effect in July. K-water, which represents the Government's contribution to the agreement, is also planning to offer the Centre a new office space by investing more than 50 billion won into a new building. The Government's support and investment in the Centre will continue to grow and I am strongly in favor of the renewal of the agreement.

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- 2) Dr Hans Dencker Thulstrup (UNESCO Focal Point for i-WSSM)
UNESCO Focal Point, Officer in Charge of UNESCO's Regional Science Bureau for Asia and the Pacific,
Jakarta, Indonesia.

Summary of the response

Dr Thulstrup stated that i-WSSM enjoys a strong institutional backing from its host country, with a dedicated and capable secretariat. This has allowed the Centre to rapidly assume a position from which it is able to deliver fully on its mandate and objectives as a UNESCO water-related Category 2 Centre. It has done so through publications (launching its own water journal), through in-country capacity building activities (Timor-Leste), through regional capacity-building, research and networking in key priority areas such as water and gender, and by maintaining a high public profile in regional and global water forums. These activities have been pursued consistently in close contact with the

UNESCO Secretariat. In this way, the Centre has extended the reach and impact of UNESCO's work, in particular in Asia and the Pacific.

Dr Thulstrup further specified that Centre's three main pillars - research, capacity-building, and international cooperation – are well established and defined, and the centre has quickly gained international experience. This combination – in conjunction with its focus on water security for sustainable management - places i-WSSM in a unique position in the region and beyond, fulfilling a role for which there is a genuine need. i-WSSM has elaborated its activities so as to align with UNESCO's strategy and programme. In this sense, its research projects have aligned to a satisfactory degree with the objectives of both the Centre and UNESCO.

Dr Thulstrup recommended that i-WSSM should capitalize on its comparative strengths and advantages to deliver on selected areas of 9th Phase of the IHP in future. The priority assigned to water and gender in i-WSSM's profile and activities represent an encouraging development that could be further elaborated. i-WSSM has come a long way since its inception, and has the potential to grow further. Given its unique and interdisciplinary mandate, the Centre has an important role to play in Asia and the Pacific and beyond. If the current trajectory can be maintained, the Centre has the potential to make a significant difference in the implementation of the 9th Phase of the IHP.

3) Ms. Bo-young CHA (i-WSSM collaborator UNESCO C2C)

Director, Office of Planning and Management

UNESCO C2C, International Information and Networking Centre for Intangible Heritage in the Asia-Pacific Region (ICHCAP)

SUMMARY OF THE RESPONSE

Ms. Boyoung CHA emphasized that the i-WSSM centre got full support from the Government in terms of funding and operating issues and it is a vital to continue and expand Centre's program at the international level. Also, the center got very strong relationship with other Category 2 Centres due to Centre's staff expertise, qualification, professionalism and kindness. Ms Cha expressed her expectations for further cooperation between i-WSSM and ICHCAP.

Ms. CHA stressed the importance of Climate Change, and the relevance of climate and water security issues as well. Particularly the small islands and developing nations in the Pacific Ocean are vulnerable to climate change and water scarcity, so she made her recommendation that the i-WSSM need to expand its target areas and countries regarding these issues.

4) Mr Gwangseuk Lim (i-WSSM industry partner)

Senior Researcher, R&D Management Department, K-Water Korea.

SUMMARY OF THE RESPONSE

Mr Lim expressed that the i-WSSM is Korea's one and only organization addressing the theme of water established under the auspices of UNESCO in accordance with the agreement between the Korean Government and UNESCO headquarters. The Government has expressed much interest in the centre's activities and been provided continuous support and cooperation. The center's role and importance will continue to grow and K-water lends its full support to i-WSSM activities. My Lim hoped that the evaluation

for the renewal of the agreement between UNESCO and the Korean Government is successfully completed so UNESCO i-WSSM can serve as a sustainable organization.

According to Mr Lim, the centre has already produced notable outcomes during the short period since its inception and its efforts to identify various cooperative partners both at home and abroad, as well as its active engagement in exchanges, should be recognized. Going forward, the centre will continue to find various partners and plan cooperative programs from a strategic perspective. In particular, the centre should be actively engaged with UNESCO Category 2 Centres in Korea and around the world, and come up with quality cooperation projects. The centre should also participate in international cooperation programs initiated by the Korean Government in an effort to diversify its capacity building programs for developing countries.

5) Prof. Gye-woon Choi (i-WSSM academic partner)
Incheon University, Republic of Korea

SUMMARY OF THE RESPONSE

Prof. Choi expressed that as a keen partner organization, collaborating with i-WSSM is very meaningful. I hope the agreement will be successfully renewed so that we can continue to work with UNESCO in bringing about global peace and sustainable development. Prof emphasized that very recent capacity-building project in Nepal was very successful and thanks to the project, there are now more active discussions on the topic of Smart Water Grid in Nepal. I think it's quite rewarding to be part of the joint project that's made a significant contribution to moving the agenda forward.

Prof. Choi recommended that water and gender are two of UNESCO's important priorities where the Centre can develop a successful key project with close collaboration with the WWAP. As the Centre induced the Government's participation in UNESCO's Water and Gender Call for Action and is implementing the joint project successfully, the project will help improve the Centre's profile and strengthen its role on the global stage. Also, the current capacity-building programme on smart water management and other technologies needs to be expanded in terms of scale and period to raise its effectiveness as well.

6) Ms. Da-hae Park (i-WSSM staff)
Programme Specialist, Division of Planning and Management, UNESCO's i-WSSM, Korea

7) Ms. Kyu-Yeong Kim (i-WSSM staff)
Programme Specialist, Division of Education and Publication, UNESCO's i-WSSM, Korea

8) Mr. Seo0Hyung Choi (i-WSSM staff)
Programme Specialist, Division of Research and Development, UNESCO's i-WSSM, Korea

SUMMARY OF THE RESPONSE

Ms Park expressed that the Centre is actively implementing the joint projects so as to systematically support UNESCO's global priorities, mid- and long-term strategies, and the InterGovernmental Hydrological Programme (IHP). Cooperation projects have been implemented quite actively to support the realization of UNESCO global priorities of gender equality and Africa. As a key partner in Asia-Pacific, the centre functions as a hub organization for on topics of water and gender, enhancing global awareness on gender equality. The Centre's activities and programs are directly linked to the UN SDGs 2030 Agenda, UNESCO's global priorities in Africa, gender equality, and the strategic objectives of the InterGovernmental Hydrological Programme (IHP).

Ms Park stated that the i-WSSM has produced a number of achievements despite only being in operation for four years but people's awareness of the Centre is not yet high enough. The Centre needs more effective strategies to clearly mark its position in the global arena and command greater leadership in the water domain. She hoped that the agreement will successfully be renewed so that Centre can continue to work with UNESCO in bringing about global peace and sustainable development.

8.3.2 ISSUES AND TOPICS ADDRESSED WITH GOVERNING BOARD MEMBER/ GOVERNMENT REP

1. How long have you been a Board Member or associated with the i-WSSM?
2. Have you had timeous access to documents/reports?
3. Has the engagement of the Board been substantial and detailed in the business of the Centre, or has it been peripheral?
4. Have you been satisfied that the guidance and oversight provided by the Board has been acted upon by i-WSSM?
5. In your view is the composition of the Board adequate?
6. In your view has the i-WSSM achieved the Goals and Objectives as set out in the Agreement?
7. Do you support the recommendation for the renewal of the Agreement?
8. Do you have any advice or recommendations on the programme of the i-WSSM going for-ward?
9. Do you have any recommendations on the Governance function of the Board going forward?
10. Do you have any overall comments to make? (One or two sentences.)

8.3.3 ISSUES AND TOPICS ADDRESSED WITH UNESCO FOCAL POINT

1. How long have you been a UNESCO focal person or associated with the i-WSSM?
2. Has the engagement of the UNESCO been substantial and detailed in the business of the Centre, or has it been peripheral?
3. Have you been satisfied that the guidance and oversight provided by the UNESCO has been acted upon by i-WSSM?
4. In your view has the i-WSSM achieved the Goals and Objectives as set out in the Agreement?
5. Do you have any recommendations on the Governance function of the i-WSSM?
6. What sort of activities, programmes, interaction have you had with the i-WSSM programme?
7. Have you had timeous access to documents/reports?
8. Have the materials, hand-outs, articles, research documents etc. which i-WSSM have produced or provided been informative and of a high quality?
9. Do you think that the work of i-WSSM can make a real difference to actual real-world complex

- international water situations? Have you seen this happen? (Please give brief details.)
10. Are there things which the i-WSSM could do differently?
 11. How important is the link between the i-WSSM with UNESCO? Is it important that the UN system is associated with the programme?

8.3.4 ISSUES AND TOPICS ADDRESSED WITH ICHCAP (UNESCO C2C)

1. How has the association with i-WSSM enhanced the work of ICHCAP?
2. How effective has the i-WSSM been in your opinion?
3. What has worked particularly well in collaboration with the i-WSSM?
4. What could have been done differently in the past which would have further enhanced the collaboration between i-WSSM and ICHCAP?
5. What is the unique strength/contribution of the i-WSSM?
6. How effective has the relationship been between the ICHCAP and the i-WSSM?
7. How helpful to the objectives of the ICHCAP have the i-WSSM research projects been?
8. Assuming the i-WSSM programme is extended, what research topics should be worked on next?
9. Assuming the i-WSSM programme is extended, what should the overall emphasis of the i-WSSM programme be going forward?
10. What for you has been the most rewarding aspect of working with the i-WSSM programme been?
11. What has been the most difficult aspect?
12. Do you have any overall comments to make? (One or two sentences.)

8.3.5 ISSUES AND TOPICS ADDRESSED WITH K-WATER (INDUSTRY PARTNER)

1. How did you come into contact with the i-WSSM – under the auspices of UNESCO?
2. What sort of activities, programmes, interaction have you had with the i-WSSM programme?
3. Have the materials, hand-outs, articles, research documents etc. which i-WSSM have produced or provided been informative and of a high quality?
4. Have the materials and interaction with the i-WSSM and their personnel been helpful to you personally in your work?
5. Do you think that the work of i-WSSM can make a real difference to actual real-world complex international water situations? Have you seen this happen? (Please give brief details.)
6. Are there things which the i-WSSM could do differently?
7. In what ways could the i-WSSM programme be strengthened in the future?
8. Do you have any overall comments to make? (One or two sentences.)

8.3.6 ISSUES AND TOPICS ADDRESSED WITH UNIVESIRTY (ACADEMIC PARTNER)

1. How has the association with i-WSSM enhanced the work of University?
 2. How effective has the i-WSSM been in your opinion?
 3. What has worked particularly well in the i-WSSM programme and approach toward enhancing water security?
 4. What could have been done differently in the past which would have further enhanced the work of
-

i-WSSM?

5. What is the unique strength/contribution of the i-WSSM?
6. How effective has the relationship been between the university and the i-WSSM?
7. How helpful to the objectives of the university have the i-WSSM research projects been?
8. Assuming the i-WSSM programme is extended, what research topics should be worked on next?
9. Assuming the i-WSSM programme is extended, what should the overall emphasis of the i-WSSM programme be going forward?
10. What for you has been the most rewarding aspect of working with the i-WSSM programme been?
11. What has been the most difficult aspect?
12. Do you have any overall comments to make? (One or two sentences.)

8.3.7 ISSUES AND TOPICS ADDRESSED WITH CENTRE STAFF

1. How has the association with UNESCO enhanced the work of i-WSSM?
2. How effective has the i-WSSM been in your opinion?
3. What has worked particularly well in the i-WSSM programme and approach toward enhancing water security?
4. What could have been done differently in the past which would have further enhanced the work of i-WSSM?
5. What is the unique strength/contribution of the i-WSSM?
6. How effective has the relationship been with the universities and other stakeholders?
7. How helpful to the objectives of the i-WSSM have the research projects been?
8. Assuming the i-WSSM programme is extended, what research topics should be worked on next?
9. Assuming the i-WSSM programme is extended, what should the overall emphasis of the i-WSSM programme be going forward?
10. What for you has been the most rewarding aspect of working in the i-WSSM programme been?
11. What has been the most difficult aspect?
12. Do you have any overall comments to make? (One or two sentences.)

8.4 ANNEX 4 – CENTRE BUDGET

8.4.1 BUDGET STATUS OF UNESCO I-WSSM (UNIT: ONE MILLION KRW)

Year	Salaries	Administrative Expenses	Program Expenses	Total	Source
2017	55.6	230.8	234.9	521.3	MOLIT*
2018	252.8	231.7	509.3	993.8	MOLIT, ME**
2019	386.6	171.5	361.6	919.7	ME
2020	403.8	160.1	329.0	892.9	ME

* MOLIT: Ministry of Land, Infrastructure and Transport

** ME: Ministry of Environment

8.4.2 2017 FINANCIAL REPORT

(1st Accounting Period: from May 2nd to December 31st ,2017- Unit: KRW)

Category	Account	Description	Amount
Salaries	Staff remuneration	Compensation for staffs	55,625,190
Administrative Expenses	General expenses	Board of Directors and Executive Committee meeting expenses and general administrative expenses	216,083,985
	Public charge and tax	Public utility charges, tax and dues	5,220,989
	Employee benefit expenses	Social insurances, overtime meal expenses	5,599,690
Travel Expenses	Domestic Travel expenses	Domestic travel expenses	3,811,820
Program budget	Research, Education, and Networking	Opening ceremony, capacity building programs and participating events, etc.	234,922,928
Balance			22,735,398
Total			544,000,000

8.4.3 2018 FINANCIAL REPORT

(2nd Accounting Period: from January 1st to December 31st, 2018 - Unit: KRW)

Category	Account	Description	Amount
Salaries	Executive and Staff remuneration	Compensation for the director and staffs	252,751,851
Administrative Expenses	General expenses	Board of Directors and Executive Committee meeting expenses and general administrative expenses	166,150,122
	Public charge and tax	Public utility charges, tax and dues	2,031,810
	Overtime meal expenses	Overtime meal expenses	2,057,500
	Rent Expenses	Office maintenance expenses and rent fee	10,001,280
	Employee benefit expenses	Social insurances, medical checkups	17,182,190
Travel Expenses	Domestic Travel expenses	Domestic travel expenses	10,994,883
	International Travel Expenses	Overseas/invitational travel expenses	19,770,430
Official Expenses	Official expenses	Expenses for meetings, events, etc.	3,458,827
Program Budget	Research	Publication of GWSI series, Joint research	115,319,846
	Education	Knowledge Sharing Program, Capacity Building Program, and workshops	217,953,924
	Networking	Participation in water-related events	176,035,833
Balance			6,291,504
Total			1,000,000,000

8.4.4 2019 FINANCIAL REPORT

(3rd Accounting Period: from January 1st to December 31st, 2019 - Unit: KRW)

Category	Account	Description	Amount
Salaries	Executive and Staff remuneration	Compensation for director and staffs	386,565,931
Administrative Expenses	General expenses	Board of Directors and Executive Committee meeting expenses and general administrative expenses	95,275,680
	Public charge and tax	Public utility charges, tax and dues	2,535,670
	Overtime meal expenses	Overtime meal expenses	1,941,000
	Rent Expenses	Office maintenance expenses and rent fee	10,368,980
	Employee benefit expenses	Social insurances, medical checkups	33,986,005
Travel Expenses	Domestic Travel expenses	Domestic travel expenses	11,329,947
	International Travel Expenses	Overseas/invitational travel expenses	12,090,095
Official Expenses	Official expenses	Expenses for meetings, events, etc.	3,997,790
Program Budget	Research	Publication of GWSI series, field research	178,451,354
	Education	Capacity Building Programs, workshops	112,132,769
	Networking	Participation in water-related events	71,006,106
Balance			40,318,673
Total			960,000,000

8.4.5 2020 FINANCIAL REPORT

(4th Accounting Period: from January 1st to December 31st, 2020 - Unit: KRW)

Category	Account	Description	Amount
Salaries	Executive and Staff remuneration	Compensation for director and staffs	403,759,749
Administrative Expenses	General expenses	Board of Directors and Executive Committee meeting expenses and general administrative expenses	94,311,112
	Public charge and tax	Public utility charges, tax and dues	11,249,090
	Overtime meal expenses	Overtime meal expenses	521,220
	Rent Expenses	Office maintenance expenses and rent fee	14,933,088
	Employee benefit expenses	Social insurances, medical checkups	30,815,290
Travel Expenses	Domestic Travel expenses	Domestic travel expenses	4,317,676
Official Expenses	Official expenses	Expenses for meetings, events, etc.	3,984,530
Program Budget	Research	Publication of GWSI series, joint research, developing education programs	105,952,077
	Education	Water education program, webinar	194,392,730
	Networking	Participation in water-related events	28,633,104
Balance			67,130,334
Total			960,000,000

8.5 ANNEX 5 – LIST OF STAFF

	Position	Name
i-WSSM Secretariat	Director	Mr. Shin, Bong-woo
i-WSSM Secretariat	Deputy Director	Mr. Shin, Young-ho
Division of Planning and Management	Programme Manager	Mr. Han, Jae-jin
	Programme Specialist	Ms. Park, Da-hae
	Programme Specialist	Mr. Song, Young-seok
Division of Research and Development	Programme Manager	Mr. Shin, Eun-her
	Programme Specialist	Mr. Choi, Seo-hyung
Division of Education and Publication	Programme Manager	Ms. Sung, Suk-gyeng
	Programme Specialist	Ms. Kim, Sae-bhom
	Programme Specialist	Ms. Kim, Kyu-yeong