Use of SDG-PSS in Republic of Korea













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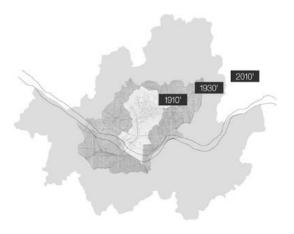


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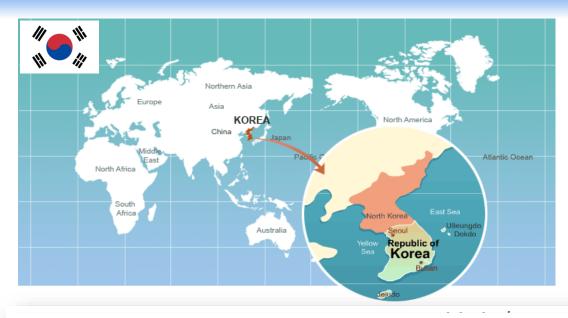




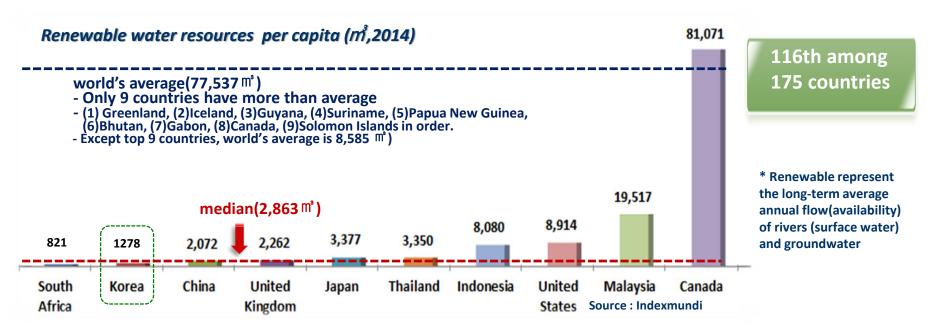


I. Introduction – Republic of Korea





- Location : East Asia
- Capital : Seoul
- Area: 100,339 km²
 - **X Tunisia: 163,610 km²**
- Population : 51.6 millions



II. Project TIME LINE in Korea



Oct 2016

Project 1st phase start

Sep 2017

Project 1st phase Mid-term workshop

Sep 2018

Project 1st phase Final Workshop Mar 2019

SDG-PSS & e-course official launch



1st Korea national workshop

May 2018

2nd Korea national workshop

Jul 2019

Project 2nd phase Regional Workshop

1st Korea National Workshop

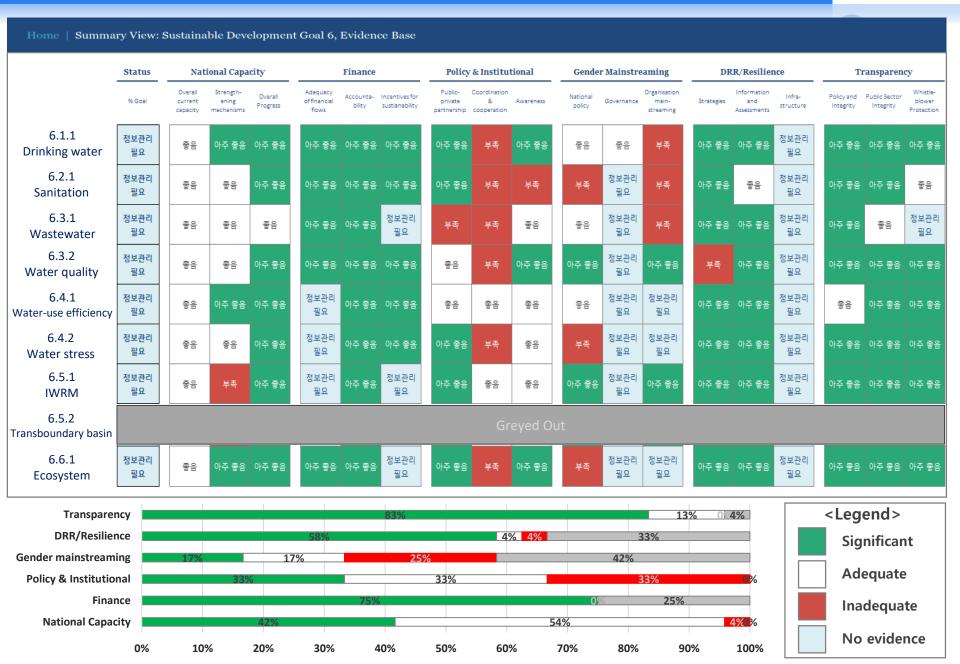
- **▶** Key aspects
- Description of Detailed structure and process of PSS, and demonstration
- Discussion on generating data to be entered into PSS
- Group discussion and results presentation by SDG 6 targets
- ▶ Participants : About 30 participants(2 government departments and 4 national agency)

2nd Korea National Workshop

- Key aspects
- Description and demonstration of PSS for new attendees not present at 1st national workshop
- Verifying the data discussed in the 1st Workshop
- Collecting individual opinions for each component for the responsible indicators
- ▶ Participants : About 20 participants(2 government departments and 4 national agency)
 - + Additional Individual Expert Interviews

III. Case study – Summary View





Ⅲ. Case study – Status



Indica	itors	Questionnaires		Baseline (2016)	Current (2017)	Aspiration (2030)
		National population (number of people '000,000)	10 ⁶ People	51.25	51.47	52.94
6.1.1	1	Population using improved water sources		52		
	1	Population covered by improved sanitation	10 ⁶ People	49		
6.2.1	2		10 ⁶ People			
			10 ⁹ m ³			
		Wastewater produced from commercial establishments				
	2	Wastewater produced from non-hazardous industries	10 ⁹ m ³			
6.3.1	3	Wastewater produced from hazardous industries	10 ⁹ m ³			
	4	Wastewater treated from hazardous economic activities	10 ⁹ m ³			
	5	Wastewater from household sources that is safely treated	%			
	1	Number of waterbodies classified as holding a good general status				
6.3.2	1	Number of classified water bodies classified as having a good quality (methodology ver. 20180301)	Number		45	
	2	Total number of waterbodies classified as being good quality				
	2	Total number of monitored and classified water bodies (methodology ver 20180301)	Number	115	115	
	1	Gross value added by industry [including energy]	10 ⁶ USD	455,132	475,981	
	2	Volume of water withdrawn by the industries [including energy]	10 ⁶ m ³	2,500		3,000
	3	Gross value added by agriculture [excluding river and marine fisheries and forestry]	10 ⁶ USD	41,173		
6.4.1	4	Proportion of agricultural GVA produced by rain-fed agriculture	%	26		
5	5	Volume of water withdrawn by the agricultural sector [including irrigation, livestock and aquaculture]	10 ⁶ m ³	14,600		13,900
	6	Gross value added by services [water collection, treatment and supply]	10 ⁶ USD	696,156	710,876	
	7	Volume of water withdrawn by the service sector	10 ⁶ m ³	7,400		7,600
	1	Total [internal and external] renewable freshwater resources	10 ⁹ m ³	132		
6.4.2	2	Total freshwater withdrawn	10 ⁹ m ³	20.90		
	3	Environmental requirements in 2016	10 ⁹ m ³	19.27		
	1	Enabling environment	0-100		44	
6.5.1	2	Institutions and participation	0-100		70	
	3	Management instruments	0-100		56	
	4	Financing	0-100		78	
	2	Area/extent of water-related ecosystems Stream-flow	10 ⁶ m ³	76,000		76,000
	3	Volume of water storage in open water (lakes and reservoirs)	10 ⁶ m ³	23,110		,
6.6.1	4	Volume of groundwater	10 ⁶ m ³	4.090		
	5	Percentage of water bodies with good quality (based on 6.3.2)	%	0%	39%	
	6		%	20%	3376	
	Ľ	Percentage of change of ecosystem health relative to natural state	70	20%		

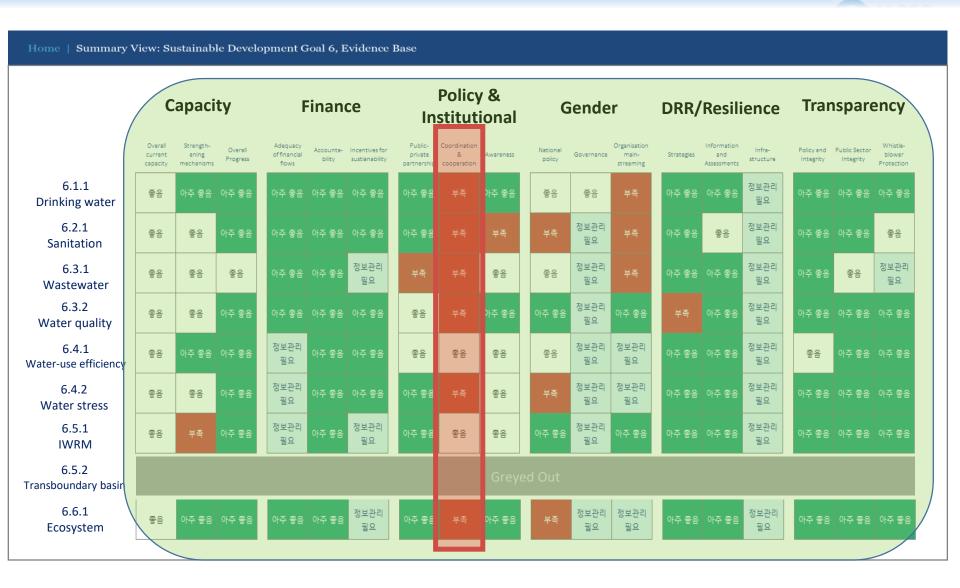


	Status
	% Goal
6.1.1	정보관리
Drinking water	필요
6.2.1	정보관리
Sanitation	필요
6.3.1	정보관리
Wastewater	필요
6.3.2	정보관리
Water quality	필요
6.4.1	정보관리
Water-use efficiency	필요
6.4.2	정보관리
Water stress	필요
6.5.1	정보관리
IWRM	필요
6.5.2	Greyed
Transboundary basin	Out
6.6.1	정보관리
Ecosystem	필요

No evidence

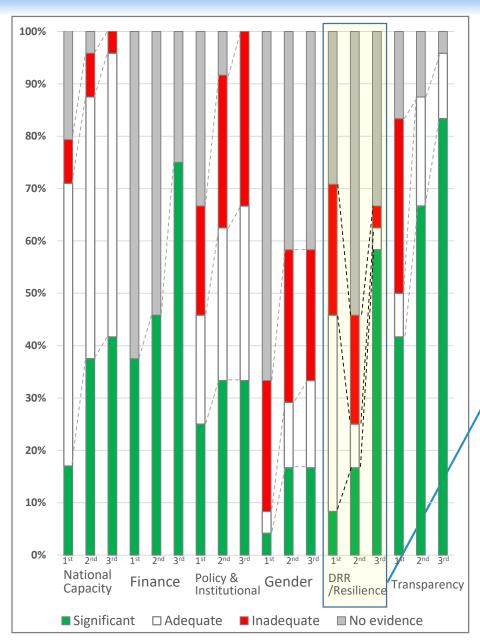
Ⅲ. Case study – 6 Components





III. Case study – 6 Components





Contextualized SDG PSS

- Modify sub-component
- Except for less relevant questionnaires

Increase response rate & quality

- Decrease No evidence (38% \rightarrow 17%)
- Increase Positive answers (43% \rightarrow 72%)

[Notable points]

DRR /Resilience	<u>1st</u>	2 nd	Individual Interview
Significant	<u>8%</u>	<u>17%</u>	58%
<u>Adequate</u>	<u>38%</u>	<u>8%</u>	<u>4%</u>
<u>Inadequate</u>	<u>25%</u>	<u>21%</u>	<u>4%</u>
No evidence	<u>29%</u>	<u> 54%</u>	<u>33%</u>

Ⅲ. Case study – Gender Mainstreaming





☐ Gender Mainstreaming

[1st & 2nd Workshops]

- Water sector working group
- Results
 - Difficult to find connectivity with each indicator
 - No-evidence(42%) and Inadequate(29%)

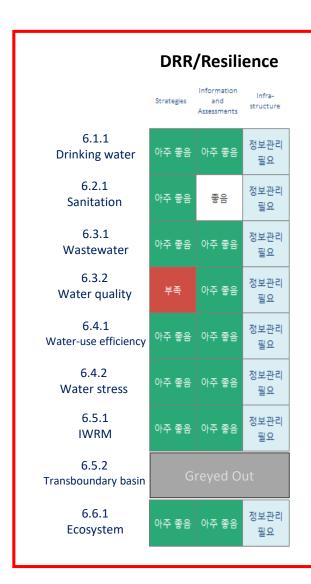


[Additional Expert Interview]

- Korean Women's Development Institute
- Results
- Evaluate by indicators except for 6.4, 6.6
- No significant changes in the results
 - **X** Most of the answers are Negative or No-evidence
- Comments
- Separation of sanitary facilities between
 men and women in private sector is required
- Management of water pollutants from the perspective of women's reproductive health protection should be conducted

Ⅲ. Case study – DRR/Resilience





□ DRR/Resilience

- Unable to evaluate by indicators, replacing with an overall assessment of SDG 6 target
- → Need to define Water-related disaster and make a linkage with each indicators
- → Need to continue the discussion with relevant ministries and experts on 'Hazard/disaster risk'

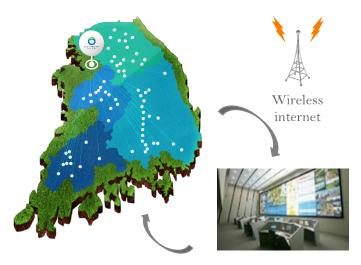
(Example) water-related disasters

indicator	6.1.1	6.2.1	6.3.1	6.3.2	6.4.1	6.4.2	6.5.1	65.2	6.6.1
Flood								×	
Drought								×	
Slides								×	
Wave								×	
Storm								×	
Epidemic								×	
Degradation								×	

IV. Enabling Environment



Data Gaps between National and International water-related data





Water-related Data Production & Management





Korea Statistical Database



Tier Classification for Global SDG Indicators (22 May '19)

SDG 6: 6 Tier I, 5 Tier III \rightarrow 6 Tier I, 5 Tier II

IV. Enabling Environment



Water Management Unification

Water Quality
Management



Water Quality & Quantity Management

~15		
Target	Indicator	K-SDG indicator
6.1	Proportion of population using safely managed drinking water services	Rate of water supply Number of water shortage municipality
6.2	Proportion of population using safely managed sanitation services	Rate of public sewage in rural area Rate of public mngt. of private sewage treatment fertility Rate of sewage odor reduction
6.3	Proportion of wastewater safely treated Proportion of bodies of water with good ambient water quality	Rate of sewage re-use Rate of watershed with grade I WQ Rate of watershed with over grade B HAE Number of newly added chemical in discharge standard
6.4	Change in water-use efficiency over time Level of water stress:	Rate of Leakage Rate of stable water supplied municipality
6.5	Degree of IWRM Proportion of transboundary basin area	Degree of IWRM North-South water cooperation agreement
6.6	Change in the extent of water-related ecosystems over time	Degree of linked river ecosystem
6.b (6.7) 20 September	Proportion of local administrative units with established and operational policies and procedures for participation of local communities in water and sanitation management Want, Final Worldoor	Rate of organization of water governance Rate of participate of public

V. Conclusion – Further steps



- In-depth Analysis of SDG-PSS implementation in Korea
 - ✓ Seeking ways to overcome Water-related Data Gaps
 - → Expand the working group operation and generate Country-derived water-related data
 - ✓ Including SDG-PSS in the high-level processes of national SDG implementation
 - → Use for progress reporting on national SDGs implementation
- Strengthening the linkage with K-SDGs
- ✓ Contextualization of SDG-PSS for K-SDGs
- ✓ Including K-MGoS in the SDG-PSS working group

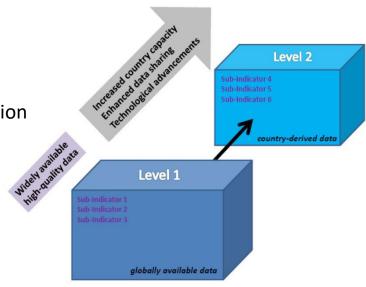


Figure 1 Indicator 6.6.1 Progressive Monitoring Approach

- **K-MGoS** is Major Groups and Other Stakeholders in Korea according to the UN guidelines.
 - 15 Major Groups represented by 88 Organizations, and 56 individuals





"KOREA WATER CLUSTER"

