

ESCAP's Methodology for Integration of the SDGs and Application to SDG 6 (Water and Sanitation)

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The Evolution of the Integrated Approach

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A Focus on Water Resources





A Focus on Water Resources

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NEXUS NEXUS OF ENERGY EXACERBATED OVER FOOD & WATER EXTRACTION OF WATER 70% to 90% OF WASTEWATER ARE DISCHARGED UNTREATED INTO FRESH WATER BODIES POSITIVE TRENDS IN THE REGION ACCESS TO SAFE DRINKING WATER GREW ACCESS TO BASIC SANITAION GREW & FROM 74% IN 1990 TO 94% IN 2015 FROM 44% IN 1990 TO 65% IN 2015 BUT 277 MILLION PEOPLE 1.7 BILLION PEOPLE & LACK ACCESS TO SAFE DRINKING WATER LACK ACCESS TO IMPROVED SANITATION 1 1 1 1 LACKS ACCESS TO SOUTH-WEST AND SOUTH ASIA LAGGING BEHIND CLEAN DRINKING WATER A A A A A

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Interlinkages within SDG 6 (Water & Sanitation for All)

Preliminary observations about the water system



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ESCAP Methodology

ESCAP Methodology supporting the Implementation of the 2030 Agenda





SDG 6 Interlinkages with other SDGs



Target 6.b – Support and strengthen the participation of local communities in improving water and sanitation management.
Fourth most inter-linked target;
Direct causal inter-linkages with 48 other targets from 14 SDGS;
Indirectly linked with another 28 targets;
Directly driven/influenced by 27 other targets and is a key driver / influencer of 21 other targets;
Most strongly influenced by SDG 5, 16, and 17
Has the most direct influence on SDG 1, 6, 11, 12, 13, and 14.



Systems Thinking Approach for Integration

System Dynamics	Stratogic Intervention
System Dynamics	Strategic Intervention
System is stagnant or stalled	 Look for constraints
Vicious cycles	 Identify "brakes"
	 Examine intervention points to
	return process to virtuous cycle
Reinforce virtuous feedback cycles	
Find the strongest feedback structure operating then review the implications and generic leverage points.	
Examine each link and consider the consequences of strengthening it or weakening it	

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Developing Causal Loop Diagram



SDG 6 Pilot Application : Fiji



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Energy, Water resources, Sanitation, Economic Growth



SDG 6 Pilot Application: Tajikistan



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2016 WB Income: Lower-Middle

Development Concerns: Water security, Sanitation, Climate, Energy, Peace, Economic Growth



SDG 6 Pilot Application : Sri Lanka

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Sri Lanka's Next Steps: Integration of SDGs into National Planning

Figure 9. A model of the planning process for inclusive transformation in Sri Lanka



Source: Uchita de Zoysa, Sustainable Development Advisor, Ministry of Sustainable Development and Wildlife, 2016.

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Sri Lanka's Next Steps: Integration of SDGs into National Planning

Figure 10. Mapping of institutional convergences in Sri Lanka using the systems thinking approach



Source: Uchita de Zoysa, Sustainable Development Advisor, Ministry of Sustainable Development and Wildlife, 2016.

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Sri Lanka's Next Steps: Integration of SDGs into National Planning

Figure 11. Systems mapping of agencies and stakeholder engagement





Anchored by the SDG Indicators

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Goal 6. Ensure availability and sustainable management of water and sanitation for all			
6.1 By 2030, achieve universal and equitable access to safe and affordable drinking water for all	6.1.1 Proportion of population using safely managed drinking water services		
6.2 By 2030, achieve access to adequate and equitable sanitation and hygiene for all and end open defecation, paying special attention to the needs of women and girls and those in vulnerable situations	6.2.1 Proportion of population using safely managed sanitation services, including a hand-washing facility with soap and water		
6.3 By 2030, improve water quality by reducing pollution, eliminating	6.3.1 Proportion of wastewater safely treated		
dumping and minimizing release of hazardous chemicals and materials, halving the proportion of untreated wastewater and substantially increasing recycling and safe reuse globally	6.3.2 Proportion of bodies of water with good ambient water quality		
6.4 By 2030, substantially increase water-use efficiency across all sectors	6.4.1 Change in water-use efficiency over time		
and ensure sustainable withdrawals and supply of freshwater to address water scarcity and substantially reduce the number of people suffering from water scarcity	6.4.2 Level of water stress: freshwater withdrawal as a proportion of available freshwater resources		
6.5 By 2030, implement integrated water resources management at all	6.5.1 Degree of integrated water resources management implementation (0-100)		
levels, including through transboundary cooperation as appropriate	6.5.2 Proportion of transboundary basin area with an operational arrangement for water cooperation		
6.6 By 2020, protect and restore water-related ecosystems, including mountains, forests, wetlands, rivers, aquifers and lakes	6.6.1 Change in the extent of water-related ecosystems over time		
6.a By 2030, expand international cooperation and capacity-building support to developing countries in water- and sanitation-related activities and programmes, including water harvesting, desalination, water efficiency, wastewater treatment, recycling and reuse technologies	6.a.1 Amount of water- and sanitation-related official development assistance that is part of a government-coordinated spending plan		
6.b Support and strengthen the participation of local communities in improving water and sanitation management	6.b.1 Proportion of local administrative units with established and operational policies and procedures for participation of local communities in water and sanitation management		

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The Next Step: Quantitative Modeling



Results from ESCAP Methodology & Conclusion

Law and Governance

- Data Gathering and Sharing
- Strong Links to the Environment and Pollution
- Human and Institutional Capacity Building
- Mobilisation of Financial Resource
- Transboundary cooperation will be essential in delivering on water mandates

Understanding interdependence key to implementing the SDGs

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Integrated management and system thinking can

- Prioritise sustainable development goal implementation
- Attract investments
- Identify "high-impact" leverage points
- Ensure cohesive monitoring and review mechanisms

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All water-related sectors must harmonise

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ESCAP Methodology supporting the Implementation of the 2030 Agenda

The ESCAP-developed comprehensive methodology developed assists policymakers with integration of the SDGs into national planning:

- Reviewing existing institutional architecture and mandates to determine their relationship with the 17 SDGs;
- Assessing the impacts of policies and identifying effective policy interventions (leverage points) for impactful investment and use of scarce resources; and
- Stakeholder mapping and engagement in collectively developing the aspirational qualitative vision for societal change.



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ESCAP Knowledge Products

Integrating the Three Dimensions of Sustainable Development: A Framework and Tools

https://sustdev.unescap.org/Files/Integrating%20the%20three%20dimensions%20of%20sustainable% 20development%20A%20framework.pdf

Analytical Framework for Integration of Water and Sanitation SDGs and Targets Using Systems Thinking Approach

https://sustdev.unescap.org/Files/resource/be091e7a9604024298e074d880312c16.pdf

Integrated Approaches for Sustainable Development Goals Planning: The Case of Goal 6 on Water and Sanitation

http://www.unescap.org/publications/integrated-approaches-sustainable-development-goalsplanning-case-goal-6-water-and

Low Carbon Green Growth Roadmap for Asia and the Pacific http://www.unescap.org/sites/default/files/Full-report.pdf

E-Learning Course: Low Carbon Green Growth Roadmap https://sustdev.unescap.org/thematicarea/detail?id=5

E-Learning Course: Integration of SDG Into National Planning

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