

TC ABSTRACT

I. Basic Project Data

▪ Country/Region:	REGIONAL/IDB
▪ TC Name:	Policy Development for Integrated Solutions in the Solid Waste and Water Sectors in Latin America and the Caribbean (LAC) based on the South Korean Case
▪ TC Number:	RG-T4221
▪ Team Leader/Members:	CORREAL SARMIENTO, MAGDA CAROLINA (INE/WSA) Team Leader; BASANI, MARCELLO (INE/WSA) Alternate Team Leader; OYAMADA KROUG, JORGE RUBEN (INE/WSA); RIHM SILVA, JUAN ALFREDO (INE/WSA); MACHADO, KLEBER B. (INE/WSA); NAVARRETE JIMENEZ, MANUEL JOSE (INE/WSA); MECERREYES ESPINOSA, CRISTINA (INE/WSA); INCHAUSTE DAZA, ADRIANA (INE/WSA); GONNELLI, GUSTAVO VICTOR (INE/WSA); PAEZ RUBIO, TANIA (INE/WSA); YOUNGMIN OH (INE/WSA); CLAUDIA PREHN (INE/WSA); LOPEZ, LILIANA M. (INE/WSA); SARA VILA SAINTETIENNE (LEG/SGO)
▪ Taxonomy:	Client Support
▪ Number and name of operation supported by the TC:	N/A
▪ Date of TC Abstract:	17 Jan 2023
▪ Beneficiary:	Chile, Colombia, Bolivia, Paraguay and Peru
▪ Executing Agency:	INTER-AMERICAN DEVELOPMENT BANK
▪ IDB funding requested:	US\$500,000.00
▪ Local counterpart funding:	US\$0.00
▪ Disbursement period:	36 months
▪ Types of consultants:	Individuals; Firms
▪ Prepared by Unit:	INE/WSA - Water & Sanitation
▪ Unit of Disbursement Responsibility:	INE/WSA - Water & Sanitation
▪ TC included in Country Strategy (y/n):	No
▪ TC included in CPD (y/n):	No
▪ Alignment to the Update to the Institutional Strategy 2010-2020:	Social inclusion and equality; Productivity and innovation; Institutional capacity and rule of law; Environmental sustainability

II. Objective and Justification

- 2.1 The main objective of this TC is to assist IDB's borrowing member countries in strengthening their capacities and improving their knowledge in integrated management and policymaking in the areas of solid waste and water. This approach promotes preventive solutions and cost-effective management in dealing with urban and rural environmental problems aggravated by water and waste mismanagement. This approach promotes preventive solutions and cost-effective management in dealing with urban and rural environmental problems aggravated by water and waste mismanagement. The specific objectives of the TC are to: (i) identify opportunities for an improvement in the current operational management of water and solid waste facilities at national and/or local levels in Latin America and the Caribbean (LAC) region; (ii) strengthen capabilities of LAC for a more comprehensive policy-making in those sectors by disseminating best practices of South Korea and enhancing adaptabilities of locally operational solutions to the region; and (iii) leverage South Korea's experiences in integrated policymaking and digitalized technologies across

water and sanitation sectors, including but not limited to metropolitan solid waste, sewage treatment, and drinking water services.

- 2.2 According to the monitoring statistics associated with the Sustainable Development Goals (SDGs) in water and sanitation, 75% of the population in LAC afford to have access to water services, but only 34% enjoy safely managed sanitation services, as of 2020, leaving more than 430 million people without access to the service mainly because of lack of wastewater treatment capacities. Waste recovery rates are extremely low in LAC, with less than 5% of waste being recovered, one of the lowest rates globally, resulting in great challenges to embrace a circular economy approach in the region. In addition, problems persist with final waste disposal. A whopping 40% of the total waste generated in urban areas is disposed of in inappropriate sites and 56% is dumped unsafely in sanitary landfills – most of them without GHG active capture facilities-, resulting in negative social and environmental impacts on human health and natural environment including high emissions of methane (IPCC, 2021) and secondary contamination in aquatic resources.

III. Description of Activities and Outputs

- 3.1 **Component I: Knowledge Exchange on Water and Waste Policy Frameworks and Technology Innovations.** To facilitate & promote access to advanced water and waste management technologies & policy frameworks by documenting and disseminating knowledge on integrated approaches in LAC across W&S sectors. Activities: (i) review state-of-the-art technologies & current public & private demands of waste & water management; (ii) policy demand, institutional frameworks, service gaps, water shortage & waste facilities; (iii) find S. Korea's experiences in the provision w/ similar services & policies in LAC.
- 3.2 **Component II: Pilot Projects Design.** Formulation of at least one pilot project to provide innovative solution to water and waste management facilities applying knowledge and lessons from component I and contextualized to the realities of LAC. Topics: (i) designing a pilot project &/or developing criteria to prioritize existing or future projects; (ii) providing one or more technology w/participation of public or private firms, site-visits, expertise exchange, dissemination; & (iii) publications with pilot project designs.
- 3.3 **Component III: One-to-One Policy Case Matching.** Provide intensive training to central or local government officers in LAC to enhance integrated solutions for water and waste treatment through small and targeted study tours to S. Korea. Based on the results of component I and complementary of the preparation of the pilot projects design (component II), training will involve the activities or opportunities with relevance and adoptability of South Korean best practices to the selected countries for customized policy recommendations in detail.

IV. Budget

Indicative Budget (in US\$)

Activity/Component	IDB/Fund Funding	Counterpart Funding	Total Funding
Knowledge Exchange on Water and Waste Policy Frameworks and Technology Innovations.	\$45,000.00	\$0.00	\$45,000.00
Pilot Projects Design	\$180,000.00	\$0.00	\$180,000.00
One-to-One Policy Case Matching	\$275,000.00	\$0.00	\$275,000.00
Total	\$500,000.00	\$0.00	\$500,000.00

V. Executing Agency and Execution Structure

- 5.1 Since this is a research and Dissemination (RD) TC, this operation will be executed by the IDB, in accordance with OP-619-4 Annex 2. The water and sanitation division (INE/WSA), will be responsible for all aspects of this TC, including disbursements, under the supervision of Magda Correal (magdac@iadb.org), Senior Specialist at INE/WSA. Activities developed in any country in the region will be coordinated with the respective INE/WSA specialist in Country Offices (COF); and, if necessary, when activities are developed in a specific country, with the liaison authority in the country and/or sector officials. Further: (i) the Bank has experience in successfully executing regional TCs of this type, such as The RG-T3298 (ATN/CF-17061-RG, ATN/OC-17060-RG), RG-T3410 (ATN/OC-17282-RG), RG-T3483 (Innovation, ATN/CO-17649-RG), and RG-T3138 (Index Americas, ATN/KS-17267-RG), which have contributed to spreading innovative tools in the sector. An Advisory Committee with representatives from the IDB, the South Korean Ministry of Environment will be set up to review and approve various aspects of the training (i.e., agenda, list of participants in the workshops and technical exchange sessions, instructors, etc.). The Committee will also provide inputs and feedback on various products funded under the TC.
- 5.2 The Bank will contract individual consultants, consulting firms and non-consulting services in accordance with Bank's current procurement policies and procedures. Due to the unique specialized expertise required to support knowledge development and technological applications and innovations in the water and waste sectors supported under this TC funding, the Bank may execute single-source direct contracts, in accordance with the Bank's policies and procedures. The project team will be responsible for the preparation and submission to the donor of the project reporting in compliance with the stipulation of the Administration Agreement. If at the end of execution, the project was closed with a positive uncommitted and unspent balance, the project team will be responsible for informing ORP/GCM to transfer the unspent balance as agreed to by the donor and the Bank pursuant to the terms of the Administration Agreement. This TC aims to improve knowledge of policy frameworks and innovation issues and disseminate that knowledge throughout the region. That said, prior to the start of the activities to be carried out by the firms or individual consultants in specific countries, letters of no objection will be obtained from the Bank's liaison bodies in the respective countries. Specific countries will receive support only when the activity to be financed is demonstrative in its concept and serves to promote knowledge and learning at the regional level.

VI. Project Risks and Issues

- 6.1 This TC poses very low or no risks, as it supports activities where the IDB-South Korean collaboration and innovations will bring significant improvements to the waste and water sector solutions. The close involvement of the technical expert from South Korea and collaboration within INE/WSA (in HQ and COFs) will guarantee effectiveness in the planning and execution of the activities. LAC stakeholders' involvement from governments, public utilities, and the professional and academic communities during TC implementation will help maximize the benefits of the TC, allowing for broader use of policy frameworks and innovative technologies.

VII. Environmental and Social Classification

- 7.1 The ESG classification for this operation is "undefined".