

TC ABSTRACT

WATER RESOURCES AND ADAPTATION TO CLIMATE CHANGE IN EMERGING AND SUSTAINABLE CITIES

I. Basic project data

- Country/Region: REGIONAL
- TC Name: WATER RESOURCES AND ADAPTATION TO CLIMATE CHANGE IN EMERGING AND SUSTAINABLE CITIES
- TC Number: RG-T2075
- Team Leader: Fernando Miralles-Wilhelm (INE/WSA)
- Team Members: Carolina Barco (INE/INE)
Alejandro Deeb (INE/ECC)
Jennifer Doherty-Bigara (INE/ECC)
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Nancy Moreno Mora (ICF/FMM)
Raúl Muñoz (INE/WSA)
Horacio Terraza (INE/WSA)
Patricia Torres (ICF/FMM)
Irene Cartin (INE/WSA)
- Indicate if: KNOWLEDGE GENERATION AND DISSEMINATION
- If Operational Support, TC give number and name of Operation Supported by the TC: N/A
- Reference to Request¹: N/A
- Date of TC Abstract: 15 FEBRUARY 2011
- Beneficiary (countries or entities which are the recipient of the technical assistance): REGIONAL
- Executing Agency and contact name: BANK EXECUTED
- IDB Funding Requested: 700,000 USD
- Local counterpart funding, if any: NONE
- Disbursement period (which includes execution period): APRIL 2012 – MARCH 2014 (24 months)
- Required start date: APRIL 2012
- Types of consultants (firm or individual consultants): FIRM AND INDIVIDUAL CONSULTANTS
- Prepared by Unit: INE/WSA
- Unit of Disbursement Responsibility: INE/WSA
- Included in Country Strategy (y/n): N/A; TC included in CPD (y/n): N/A
- GCI-9 Sector Priority: CLIMATE CHANGE AND ENVIRONMENTAL SUSTAINABILITY

II. Objective and Justification

The main objective of this project is to support water resources and adaptation to climate change methodological development and project identification in emerging cities of the LAC region. To this end, the project will develop and implement a methodology that will allow these cities to: (i) identify vulnerabilities in their water resources systems -water sources, access and sanitation infrastructure, and

¹ A copy of the Letter of Request, Programming/Portfolio Review Mission Aide Memoire or Report requesting the TC should be submitted with the Abstract.

management of the water cycle- to climate change; (ii) prioritize the necessary actions to manage these vulnerabilities; and (iii) develop action plans for three emerging cities in the region.

The project will take as a basis the Bank-sponsored developed methodology for the Emerging and Sustainable Cities Platform (ESCP). This methodology will be enhanced by deepening its focus on identification and implementation of action plans in three beneficiary cities in the LAC region. Each of these action plans will be structured as a case study that will be used to promote adaptation practices in water resources, and contribute to knowledge for the many other (over 100) intermediate cities in the LAC region that have been identified for future work as part of the ESCP by the Bank. This project will produce written, graphical and communications materials that are expected to serve as knowledge input to future work under the ESCP.

This project is aligned with the lending target of “climate change, sustainable energy and environmental sustainability” of the GCI9. It is also aligned with document GN-2562 (newly approved Special Program and Multi Donor Fund for the Sustainable Emergent Cities Initiative).

III. Description of Activities

Project Component	Outputs	Results
Component 1: Hydroclimatic risk and vulnerability mapping	Output 1: Characterization of hydrology and climate related vulnerabilities in water resources systems in ESCP cities.	Result 1: Hydrology and climate related vulnerabilities in water resources systems for 3 ESCP cities are <u>characterized</u> .
Component 2: Methodology development	Output 2: Development of a methodology to identify, prioritize and select water sector actions which contribute to adaptation to CC effects in cities.	Result 2: A methodology to identify, prioritize and select water sector actions which contribute to adaptation to CC effects of cities is <u>developed</u> .
Component 3: Methodology implementation	Output 3: Methodology implementation to filter water sector actions based on climate change impacts.	Result 3: A methodology to filter water sector actions based on climate change impacts is <u>implemented</u> .
Component 4: Action plan formulation	Output 4: Formulation of water resources and adaptation to climate change action plans for the 3 beneficiary ESCP cities.	Result 4: Water resources and adaptation to climate change action plans for 3 beneficiary ESCP cities are <u>formulated</u> .
Component 5: Citizen systems for monitoring and evaluation	Output 5: Design and implementation of citizen systems to monitor and evaluate climate change performance of adapted water resources systems.	Result 5: Citizen-based systems to monitor and evaluate climate change performance of adapted water resources systems are <u>designed</u> and <u>implemented</u> .

IV. Budget

This subheading should state the total amount of funding needed, showing allocations for each component as per the table below. Counterpart funding (if any) should be included.

Indicative Budget		
Component	Description	Total Funding (MAF) ⁽¹⁾
1	Hydroclimatic risk and vulnerability mapping	150,000
2	Methodology development	150,000
3	Methodology implementation	150,000
4	Action plan formulation	150,000
5	Citizen systems for monitoring and evaluation	100,000
TOTALS		700,000

(1) MAF = Multidonor AquaFund

V. Executing agency and execution structure

This is a Bank-originated Research and Dissemination TC, aimed at developing a set of water resources and adaptation to climate change case studies that can be used as a reference tool for similar interventions in other Bank member countries and regions. In synergy with the ESCP, it is important that knowledge in the area of water resources and adaptation to climate change is cultivated in the Bank, and this TC offers a clear opportunity to do so. The execution of this TC will provide a learning, knowledge transfer and data gathering opportunity for Bank staff involved in issues of water resources, vulnerability and adaptation to climate change, which is a new area of work that the Bank (and particularly the WSA division) has engaged in recently. Therefore, it is deemed critical that this TC is Bank-executed.

VI. Project Risks and Issues

The primary risk for implementation of this TC project is the availability of baseline data for climate change in the potential beneficiary cities. Because of this, data availability will be made a key criterion for the selection of the three cities for this project, and also access to data and data-readiness will be a key criterion for consultant selection.

Another potential risk is the distributed nature of this project, which takes place in three cities simultaneously. To mitigate this risk, preference will be given to consultants who have the experience, person-power and local presence in the 3 study locations.

VII. Environmental and Social Classification

Following ESG's project classification process (Safeguard Policy Filter and Safeguard Screening Form) requirements, it has been determined that this project falls under Category C. No environmental assessment studies or consultations are required for Category "C" operations.