

 Early Warning System

IADB-CO-T1598

Implementation of Water Resource Management Systems in Support of
the Master Plan for the Integrated Management and Sustainable Use of
the Magdalena River Basin



Quick Facts

Countries	Colombia
Financial Institutions	Inter-American Development Bank (IADB)
Status	Active
Bank Risk Rating	C
Voting Date	2021-04-23
Borrower	Government of Colombia
Sectors	Climate and Environment, Infrastructure, Water and Sanitation
Investment Type(s)	Advisory Services, Grant
Investment Amount (USD)	\$ 0.40 million
Project Cost (USD)	\$ 0.40 million



Project Description

The Technical Cooperation (TC) will support the implementation of a water resources management system for the large Magdalena River basin, and a support system for the monitoring of the navigable channel through the implementation of the IDB's model suite, called HydroBID. The information generated by the models will be fed into a geographic information system that will provide data for decision-making both at the level of the Magdalena River Basin and at the level of the sub-basins corresponding to the different autonomous corporations and local governments.

HydroBID will provide information on water quantity and quality, water balances, effects of climate change, land-use change from the operation of reservoirs on runoff flowing into the Magdalena River, while HydroBID Flood will provide hydrodynamic information on levels, velocities, and processes of erosion and sedimentation in the navigation channel, as well as information on the likelihood of flooding in areas of risk and contamination risks. Results produced by the HydroBID model will not only feed the Information system, but will also generate Information about the quantity of water that reach the navigation channel, which will help to predict variations related to reservoirs operation or precipitations that may occur along the watershed, this data will then be used by the HydroBID Flood model to produce detailed information related to water depths, which represent information of great importance for the navigation and also to assess the environmental conditions of the river.

The TC will be developed mainly under the guided implementation structure, through which teams of local technicians will develop the implementation of the models under the guidance and continuous supervision of specialists in the different areas, which will additionally guarantee the correct transfer of technology and knowledge.



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Investment Description

- Inter-American Development Bank (IADB)



Contact Information

ACCOUNTABILITY MECHANISM OF IADB

The Independent Consultation and Investigation Mechanism (MICI) is the independent complaint mechanism and fact-finding body for people who have been or are likely to be adversely affected by an Inter-American Development Bank (IDB) or Inter-American Investment Corporation (IIC)-funded project. If you submit a complaint to MICI, they may assist you in addressing the problems you raised through a dispute-resolution process with those implementing the project and/or through an investigation to assess whether the IDB or IIC is following its own policies for preventing or mitigating harm to people or the environment. You can submit a complaint by sending an email to MICI@iadb.org. You can learn more about the MICI and how to file a complaint at <http://www.iadb.org/en/mici/mici,1752.html> (in English) or <http://www.iadb.org/es/mici/mici,1752.html> (Spanish).



Bank Documents

- [Abstracto de documento CT CO-T1598](#) [Original Source]