

REQUEST FOR EXPRESSIONS OF INTEREST **CONSULTING SERVICES**

Selection # as assigned by e-Tool: RG-T3489-P001

Selection Method: Full Competitive Selection

Country: Regional (Bolivia, Brazil, Colombia, Ecuador, Guyana, Peru, Suriname, Venezuela)

Sector: Water and Sanitation

Funding – TC #: ATN/LA-17501-RG

Project #: RG-T3489

TC name: Integrated Management of Transboundary Water Resources in Latin America

Description of Services: Development of a Regional Hydrological Platform and a Multi-Sector Nexus Model for the Amazon Basin

Link to TC document: <https://www.iadb.org/en/project/RG-T3489>

The Inter-American Development Bank (IDB) is executing the above-mentioned operation. For this operation, the IDB intends to contract consulting services described in this Request for Expressions of Interest. Expressions of interest must be delivered using the IDB Portal for Bank Executed Operations (<http://beo-procurement.iadb.org/home>) by: May 15, 2020, 5:00 P.M. (Washington D.C. Time).

The consulting services (“the Services”) include the development of an integrated modeling tool that allows the exploration of different physical (e.g., climate, land use) and socioeconomic (e.g., population, economic activities, policy implementation) scenarios in the entire Amazon basin. There is a need for quantitative (modeling) tools to support the conceptualization and analysis of scenarios to visualize different regional results taking into account the economic, environmental, social and institutional dynamics, among others, of the region. The estimated timeframe for the performance of such service is 24 months and the start of services is expected for the third quarter of 2020.

Eligible consulting firms will be selected in accordance with the procedures set out in the Inter-American Development Bank: [Policy for the Selection and Contracting of Consulting firms for Bank-executed Operational Work](#) - GN-2765-1. All eligible consulting firms, as defined in the Policy may express an interest. If the Consulting Firm is presented in a Consortium, it will designate one of them as a representative, and the latter will be responsible for the communications, the registration in the portal and for submitting the corresponding documents.

The IDB now invites eligible consulting firms to indicate their interest in providing the services described below in the [draft summary](#) of the intended Terms of Reference for the assignment. Interested consulting firms must provide information establishing that they are qualified to perform the Services (brochures, description of similar assignments, experience in similar conditions, availability of appropriate skills among staff, etc.). Eligible consulting firms may associate in a form of a Joint Venture or a sub-consultancy agreement to enhance their qualifications. Such association or Joint Venture shall appoint one of the firms as the representative.

Interested eligible consulting firms may obtain further information during office hours, 09:00 AM to 05:00 PM, (Washington D.C. Time) by sending an email to: Raúl Muñoz, raulmu@iadb.org

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Draft Summary of Terms of Reference

The Amazon Basin is a place of immense natural and cultural wealth. Formed more than 30 million years ago,¹ this massive basin has been inhabited by indigenous peoples for more than 11,000 years.² The political-administrative boundaries of the basin span approximately 7.4 million km² and stretch across the territory of eight countries: Bolivia, Brazil, Colombia, Ecuador, Guyana, Peru, Suriname, Venezuela³; about 5.5 million km² of this area is forested.

The Amazon Basin plays a critical role in global water and biogeochemical cycles. Its rivers hold one fifth of all the fresh water of the planet; the average drainage volume of the basin exceeds 6.5 km³/year, which represents over 70 percent of the freshwater discharge in Latin America and approximately 20 percent of the planet's freshwater discharge. The Amazon River is the largest tributary to the world's oceans.⁴ The forest itself helps to regulate climate and rainfall patterns at local and regional scales, providing favorable conditions for agricultural production and food security across the continent and beyond⁵. Daily, the evapotranspiration process transfers 20 billion tons of water from soil to the atmosphere in the Brazilian Amazon and 22 billion in the entire basin. Around 70% of the South American GDP is under the zone of influence of the rain produced by the Amazon⁶.

The overarching objective of this work is the development of an integrated modeling tool that allows the exploration of different physical (e.g., climate, land use) and socioeconomic (e.g., population, economic activities, policy implementation) scenarios in the entire Amazon basin. Some specific objectives that this project seeks to achieve are as follows:

- (i) Develop a modeling tool (or suite of integrated modeling tools), which includes an analysis of environmental functions / ecosystem services/ nature's contributions to people, and overall global drivers such as SDGs and NDCs.
- (ii) Carry out a diagnosis of regional scope and identification of information gaps on key development aspects of the basin such as : (i) the quantity and quality of water, (ii) water balance; (iii) infrastructure for provision of basic services; (iv) land, water and biodiversity conservation.
- (iii) Identify the scope of specific needs and associated investments that are required in the different areas, however conceptualized using an integrated (nexus) approach.

¹ Burnham, Robyn J, and Kirk R. Johnson. (2004). South American paleobotany and the origins of neotropical rainforests. *Phil. Trans. R. Soc. London. B* 359(1450): 1595-1610.

² Roosevelt, A.C. *et al.* (1996). Paleoindian cave dwellers in the Amazon: the peopling of the Americas. *Science* 272(5260): 373-384.

³ RAISG (2019). Amazonia 2019: Protected Areas and Indigenous Territories.
<https://www.amazoniasocioambiental.org/en/maps/#!/areas>

⁴ Smith, Nigel J.H.(2002). Amazon Sweet Sea: Land, Life, and Water at the River's Mouth(s.l.): University of Texas Press.pp1-2

⁵ Lawrence, Deborah and Karen Vandecar. (2015). Effects of tropical deforestation on climate and agriculture. *Nature Climate Change* 5: 27-36.

⁶ Nobre, Antônio Donato (2014). O Futuro Climático da Amazônia: relatório de avaliação científica. São José dos Campos, SP: ARA: CCST-INPE: INPA.

- (iv) Develop a proposal of an instrument of planning for the Amazon Watershed, strategic guidelines and an investment plan for the Amazon Basin, taking into consideration the approved Strategic Action Program (SAP) of ACTO.

The consulting firm is expected to identify synergies and tradeoffs, with a particular focus on economic tradeoffs, through an integrated multi-sectoral (nexus) approach to policies and investments in the Amazon Basin. More specifically, the project will produce an assessment of the multi-sectoral synergies, conflicts and infrastructure investment needs arising from national policies of interest in the eight countries in the basin that have the potential for multi-sectoral consequences and sensitivity to climate change. The project will assess the consistency, linkages, and economic implications of these policies at national, regional and global scales. The estimated timeframe for the performance of such service is 24 months and the start of services is expected for the third quarter of 2020.